# DEPARTMENT OF CITY PLANNING

# RECOMMENDATION REPORT

## City Planning Commission

**Date:** November 16, 2017
**Time:** After 8:30 A.M.*
**Place:** Los Angeles City Hall
Council Chambers
200 N. Spring Street
Los Angeles, CA 90012

**Public Hearing:** Completed October 4, 2017
**Appeal Status:** Density Bonus on-menu incentive is appealable to City Council by abutting owners. Density Bonus off-menu waiver is not further appealable. Site Plan Review is appealable to City Council.
**Expiration Date:** December 28, 2017
**Multiple Approval:** Yes

**Case No.:** CPC-2017-111-DB-SPR
**CEQA No.:** ENV-2016-112-CE
**Incidental Cases:** N/A
**Related Cases:** N/A
**Council No.:** 9 – Price
**Plan Area:** Southeast Los Angeles
**Specific Plan:** N/A
**Certified NC:** Empowerment Congress North Area
**Existing Zone:** C2-1L

**Applicant:** 31st Street & Figueroa Holdings, LLC
**Representative:** Matthew Hayden, Hayden Planning

**PROJECT LOCATION:** 505 – 517 West 31st Street

**PROPOSED PROJECT:** The demolition of an existing two-story, multi-family structure containing four (4) units and the construction, use, and maintenance of a new seven-story, 86-foot high apartment building consisting of 73 residential dwelling units. The project will set aside six (6) units (11 percent of the base density) for very-low income households and will set aside an additional two (2) units for moderate income households. The project will provide 78 automobile parking spaces located within one ground floor and one subterranean level of parking.

**REQUESTED ACTION:**

1) Determine based on the whole of the record, the Project is exempt from CEQA, pursuant to CEQA Guidelines, Section 15332 (Class 32), and that there is no substantial evidence demonstrating that an exception to a categorical exemption pursuant to CEQA Guidelines, Section 15300.2 applies;

2) Pursuant to Section 12.22-A,25 of the Los Angeles Municipal Code (LAMC), a 35 percent Density Bonus with 11 percent (6 dwelling units) reserved for Very-Low Income Households, to permit the construction of 73 residential units, utilizing AB 744 parking option of 0.5 parking spaces per bedroom and requesting one On-menu Incentive and one Off-Menu Waiver:

   a. Pursuant to LAMC Section 12.22-A,25(f)(4), an On-Menu Incentive to permit a maximum height of 86 feet in lieu of the 75 feet permitted by the C2-1L Zone;

   b. Pursuant to LAMC Section 12.22-A,25(g)(3), an Off-Menu waiver to permit a maximum floor area of 4:1 in lieu of 1.5:1 otherwise permitted by the C2-1L Zone; and

3) Site Plan Review for a development which creates, or results in an increase of 50 or more dwelling units.

**RECOMMENDED ACTIONS:**

1) **Determine** based on the whole of the record, the Project is exempt from CEQA, pursuant to CEQA Guidelines, Section 15332 (Class 32), and that there is no substantial evidence demonstrating that an exception to a categorical exemption pursuant to CEQA Guidelines, Section 15300.2 applies;

2) **Approve** a 35 percent density bonus with a set aside of 11 percent (6 dwelling units) of the permitted density for Very Low Income Households; and one (1) On-Menu Incentive and one (1) Off-Menu Incentive:

   a. to permit a maximum height of 86 feet in lieu of the 75 feet otherwise permitted in the C2-1L Zone;
   b. to permit a maximum Floor Area Ratio of 4:1 in lieu of the 1.5:1 otherwise permitted in the C2-1L Zone; and

3) **Approve** the **Site Plan Review** for a development which creates, or results in an increase of 50 or more dwelling units.

4) **Adopt** the attached Conditions of Approval; and

5) **Adopt** the attached Findings;

6) **Advise** the applicant that, pursuant to California State Public Resources Code Section 21081.6, the City shall monitor or require evidence that mitigation conditions are implemented and maintained throughout the life of the project and the City may require any necessary fees to cover the cost of such monitoring; and

VINCENT P. BERTONI, AICP
Director of Planning

for

Charles J. Rausch, Jr.
Interim Chief Zoning Administrator

Nicholas Hendricks
Senior City Planner

Jenna Monterrosa, Hearing Officer
City Planner

**ADVICE TO PUBLIC:** *The exact time this report will be considered during the meeting is uncertain since there may be several other items on the agenda. Written communications may be mailed to the *Commission Secretariat, Room 532, City Hall, 200 North Spring Street, Los Angeles, CA 90012* (Phone No. 213-978-1300). While all written communications are given to the Commission for consideration, the initial packets are sent to the week prior to the Commission's meeting date. If you challenge these agenda items in court, you may be limited to raising only those issues you or someone else raised at the public hearing agendized herein, or in written correspondence on these matters delivered to this agency at or prior to the public hearing. As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability, and upon request, will provide reasonable accommodation to ensure equal access to these programs, services and activities. Sign language interpreters, assistive listening devices, or other auxiliary aids and/or other services may be provided upon request. To ensure availability of services, please make your request not later than three working days (72 hours) prior to the meeting by calling the Commission Secretariat at (213) 978-1295.

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# PROJECT ANALYSIS

## Project Summary

The project involves the demolition of an existing residence on the project site for construction of a multi-family residential building. The building would be seven stories above ground and 86 feet in height, and would include 73 residential units, courtyards, a gym, patio, and two recreation rooms, and 78 vehicular parking spaces. Of the 73 dwelling units, six (6) units (11 percent of the project's base density) will be set aside for very-low income households and an additional two (2) units will be set aside for moderate income households. The building's proposed unit composition is made up of 28 two-bedroom units, 24 one-bedroom units and 21 studio units.

The project site is a generally flat, L-shaped lot. Currently, an occupied (4-unit) multi-family residence is located on the western portion of the project site, with the easterly portion presently vacant. The existing on-site building will be demolished in conjunction with the proposed project.

*Requested Entitlements:*

To enable the proposed project, the applicant has requested the following:

1. A **35% Density Bonus**, reserving 11% of its base density for very-low income household occupancy for a period of 55 years, along with one on-menu and one off-menu request to permit an 11-foot height increase, and a Floor Area Ratio (FAR) of 4:1 in lieu of the 1.5:1 permitted by the site's C2-1L Zone.

   **Density Bonus**. By setting aside 11% of its base density units for very-low income households, LAMC Section 12.22-A.25 allows a 35% density bonus in proposed residential units. The site's is located within the Greater Downtown Housing Incentive Area which does not limit density; however, the site is limited to a floor area ratio (FAR) of 1.5:1. By applying for a density bonus, the project has been filed with a by-right density calculation that forgoes the Greater Downtown Housing Incentive for unlimited density and calculates density at 1 dwelling unit per 400 square feet, consistent with typical C2 Zoned properties in the City of Los Angeles. The subject site's C2 zone permits a base density of 54 units by right. This is calculated by dividing the sum of the site's lot area, 20,607 square feet, and half of the area of the site's adjoining alley (612 square feet), totaling 21,219 square feet, by 400. The 35% density bonus entitles the project to a total of 73 residential units.

   **Automobile Parking**. LAMC Section 12.22 A.25(d) allows for the reduction of required parking for a project with affordable units. Additionally, under AB 744 which amended sections of the State Density Bonus Law, the site's location within ½ mile of a major transit stop permits a maximum required parking ratio of 0.5 spaces per bedroom. The applicant is requesting the use of Parking Option 1, which allows for all units within the project to be calculated at one space for each bedroom. The project will additionally reduce its required parking by 15% through the use of the City's bicycle ordinance which permits such reduction in exchange with the installation of additional bicycle parking. Based on the unit mix within the development, the residential component of the project is required to provide 328 parking spaces, without the bicycle parking credit, and 279 spaces when factoring in a 15% bicycle parking credit. The project will provide 279 residential parking spaces.

   **Incentives**: As proposed, the project will reserve 11% (6 units) of its base units for a period of 55 years for very-low income households in order to qualify for two incentives,

one on-menu and one off-menu. As required by Section 12.22 A.25 (e)(2), the project meets the following additional eligibility criterion that is required for density bonus projects.

A. **The façade of any portion of a building that abuts a street shall be articulated with a change of material or a break in plane, so that the façade is not a flat surface.**

The building provides a variety of architectural materials and building planes, while creating a pedestrian-scaled project at the street level. There are changes in the building plane along 31st Street, and the primary residential entry is off 31st Street to provide a connection between the structure and the pedestrian realm. The design of the upper six floor uses contain alternating window and balcony stacks to change the building façade along the street. The façade variation creates visual interest for the project that is distinct from typical apartment buildings in the area. The use of different textures, colors, materials, and distinctive architectural treatments also add visual interest to the façade to avoid a dull, repetitive façade. These include brick, beige stucco, black colored metal cladding, and translucent glass. The building has also been designed with a large central building opening created by a 2nd floor courtyard, which provides a break along the street facing façade for massing relief. As such, the façade of the new building facing 31st Street will be articulated with a change of materials or a break in plane, so the facades are not flat surfaces.

B. **All buildings must be oriented to the street by providing entrances, windows architectural features and/or balconies on the front and along any street facing elevation.**

The buildings will also be oriented toward the streets with entrances, windows, architectural features and balconies on street-facing elevations as required. The project has a main lobby accessed at the street level on 31st Street. This entry provides activity along the street frontage. The project's 31st Street façade contains balconies and numerous windows of different sizes and types, ranging from small bathroom/bedroom light windows to full length floor-to-ceiling glass patio doors. The articulation and fenestration of the building adds visual interest and variety, particularly to the street facing façade.

C. **The Housing Development Project shall not involve a contributing structure in a designated Historic Preservation Overlay Zone (HPOZ) and shall not involve a structure that is a City of Los Angeles designated Historic-Cultural Monument (HCM).**

The subject site is not located within a Historic Preservation Overlay Zone (HPOZ). On February 5, 2013, the City's Cultural Heritage Commission designated the Stewart Farmhouse, which was previously located on the subject site, as a Historic Cultural Monument HCM-1028. The monument was relocated to 120 N. Avenue 63, Los Angeles, California 90042 on August 9, 2016. The historic house relocation was approved under Certificate of Appropriateness Case No. DIR-2016-1528-COA. The house is no longer located at the site. As such, the project will not involve a contributing structure in a designated Historic Preservation Overlay Zone (HPOX) and will not involve a structure that is a City designated Historic Cultural Monument (HCM).

D. **The Housing Development Project shall not be located on a substandard street in a Hillside Area or in a Very High Fire Hazard Severity Zone as established in Section 57.25.01 of the LAMC.**

The subject property is located along the north side of 31st Street between Figueroa Street to the west and Flower Street to the east. The project site is a generally flat, L-shaped lot that is comprised of four (4) parcels of land totaling 0.47 acres, or 20,607 square feet. 31st Street is a Local Street - Standard, dedicated to a width of 60 feet and is improved with a curb, gutter, and sidewalk. Furthermore, according to ZIMAS, the project is not located on a substandard street in a Hillside area or a Very High Fire Hazard Severity Zone.

The proposed project qualifies for and has requested the two following incentives:

- **On-Menu Height Increase.** The project qualifies for a percentage increase in the height requirement in equal in feet equal to the percentage of density bonus for which the housing development project is eligible; however, where a project is located in a zone which limits height and/or stories, the increase shall be limited to up to one story or 11 feet. The project's C2-1L Zone permits a maximum height of 75 feet. The incentive allows for a maximum height increase of 11 feet.

- **Off-Menu Floor Area Ratio Increase.** Without the requested off-menu waiver, the project would be permitted a floor area ratio of up to 1.5:1, or 30,910 square feet. The project proposes a mixed use building that will contain a floor area ratio of 4:1, totaling up to 82,428 square feet of floor area, which is what the project proposes.

*Density Bonus Legislation Background:*

The California State Legislature has declared that "[t]he availability of housing is of vital statewide importance," and has determined that state and local governments have a responsibility to "make adequate provision for the housing needs of all economic segments of the community." Section §65580, subds. (a), (d). Section 65915 further provides that an applicant must agree to, and the municipality must ensure, the "continued affordability of all low and very low income units that qualified the applicant" for the density bonus.

California State Assembly Bill 2222 went into effect January 1, 2015. It introduces rental dwelling unit replacement requirements, which pertain to cases filed (not issued) as of January 1, 2015. The state law also increases covenant restrictions from 30 to 55 years for cases issued (not just filed) as of January 1, 2015. This determination letter reflects both the replacement of units and 55 year covenant restrictions, given that the case decision, or approval, as noted on the front page, is being issued after January 1, 2015.

Under Government Code Section § 65915(a), § 65915(d)(2)(C) § 65915(d)(3) the City of Los Angeles complies with the State Density Bonus law by adopting density bonus regulations and procedures as codified in Section 12.22 A.25 of the Los Angeles Municipal Code. Section 12.22 A.25 creates a procedure to waive or modify zoning code development standards.

In exchange for setting aside a defined number of affordable dwelling units within a development, applicants may request up to three incentives in addition to the density bonus and parking relief which are permitted by right. The incentives are deviations from the City's development standards, thus providing greater relief from regulatory

constraints. Utilization of the Density Bonus/Affordable Housing Incentives Program supersedes requirements of the Los Angeles Municipal Code and underlying ordinances relative to density, number of units, parking, and other requirements relative to incentives, if requested.

For the purpose of clarifying the Covenant Subordination Agreement between the City of Los Angeles and the United States Department of Housing and Urban Development (HUD) note that the covenant required in the Conditions of Approval herein shall prevail unless pre-empted by State or Federal law.

2. A **Site Plan Review** for the construction of 50 or more dwelling units or guest rooms.

**Background**

***Project Location:***

The subject property is located along the north side of 31st Street between Figueroa Street to the west and Flower Street to the east. The property has a street frontage that totals approximately 150 linear feet. The site is approximately 0.2 miles from the southeast boundary of the University of Southern California campus at Jefferson Boulevard and Figueroa Street.

The project site is a generally flat, L-shaped lot that is comprised of four (4) parcels of land totaling 0.47 acres, or 20,607 square feet. Currently, the site is occupied by a four-unit (4-unit) multi-family residence with the addresses 515, 517, and 517 ½ W. 31st Street located on a 0.12-acre lot within the project site. The project site's remaining 0.35-acre, with the addresses 505 W. 31st Street and 511 W. 31st Street, is a vacant dirt lot.

The project site is zoned C2-1L, or Commercial Zone in Height District No. -1L. Pursuant to the City of Los Angeles Municipal Code (LAMC) Sections 12.14(A)(4), 12.13.5(A)(1), and 12.11, the C2 zone permits R4 (Multiple Dwelling Zone) residential uses including, but not limited to, apartment houses, multiple-dwelling houses, fraternity or sorority houses, and dormitories. In addition, the following zoning designations apply to the project site:

- North University Park-Exposition Park-West Adams Neighborhood Stabilization Overlay (NSO) District – This overlay requires the approval of a Conditional Use for projects which involve the construction, erection, addition to, enlargement of or reconfiguration of any one-family dwelling or multiple-family dwelling units or portions of dwelling units in the R2,RD, R3, RAS, R4, R5, CR, C1, C1.5, C2, C4, C5, or CM zones that create at least one dwelling unit with five or more habitable rooms. * *The herein requested project has been designed to reduce any units from containing five or more habitable rooms.*
- Greater Downtown Housing Incentive Area (GDHIA) – This incentive area allows the following housing incentives:
    - The maximum unit per lot area was eliminated; density is unlimited (within the relevant FAR)
    - All yard requirements were eliminated
    - Buildable Area is the same as Lot Area
    - The percentages of private and common open space were eliminated; however, the total per unit open space requirement shall still be provided.
    - Tract and parcel maps may include land set aside for street or alley purposes within the calculation of allowable floor area of a residential or mixed use building (including Apartment Hotels)
- Transit Priority Areas (TPA) – The environmental review of projects in Transit Priority Areas is limited to the extent at which it reviews aesthetic impacts. to which aesthetics

and parking are defined as impacts under CEQA. Specifically, a project's aesthetic and parking impacts shall not be considered a significant impact on the environment if the project is a residential, mixed-use residential, or employment center project, and the project is located on an infill site within a transit priority area.

***Surrounding Properties:***

Properties in the surrounding area are zoned C2-1L, C2-2, R4-2, M1-2, PF-1, [Q]C2-1VL-O, and R3-1 and are improved with commercial, auto, retail, food, educational, medical, industrial, residential, and transportation uses.

The following commercial uses surround the majority of the project site: a two-story, 25-foot tall commercial/retail building to the east; a 20-foot tall fine arts gallery and the Roski School of Art and Design Graduate Studios to the north; and a 13-foot tall fast food restaurant to the west. A two- story residence, a parking lot, and car dealership make up the uses south of the project site across West 31st Street. An alleyway is located immediately west of the project site that connects West 31st Street to West 30th Street. Along the east side of Flower Street, the Metro Expo Line (light rail) runs at grade, Interstate 110 (I-110) runs below grade, and I-110 ramps run above grade.

***Streets and Circulation:***

31st Street is a Local Street - Standard, dedicated to a width of 60 feet and is improved with curb, gutter, and sidewalk.

A public alley adjoins the project site to the west. This alley is fully improved and measures 20 feet wide at the project's frontage.

***Relevant Cases:***

Subject Property:

CHC-2012-2953-HCM: On February 5, 2013, the City's Cultural Heritage Commission designated the Stewart Farmhouse, which was previously located on the subject site, as a Historic Cultural Monument HCM-1028. The monument was relocated to 120 N. Avenue 63, Los Angeles, California 90042 on August 9, 2016. The historic house relocation was approved under Certificate of Appropriateness Case No. DIR-2016-1528-COA. The house is no longer located at the site, so the project will have no impact to historic resources.

Case No. ZA-2005-5644-ZV-ZAA: In 2005, the previous subject property owner filed, and subsequently withdrew, a request to permit an increase in Floor Area Ratio (FAR) for residential uses to permit 1.54:1 in lieu of 1.5:1 and to permit a Zoning Administrator's Adjustment for reduced side yards, all in conjunction with the construction, use, and maintenance of a 15-unit apartment building with 30 parking spaces. The requested action was brought to a hearing and taken under advisement before it was withdrawn by the owner/applicant.

Surrounding Properties:

Case No. CPC-2016-2466-GPA-ZC-HD-VCU-CUB-SPR: On June 30, 2017, the City Council approved a project involving the construction, use, and maintenance of a new seven-story dual branded hotel building with a maximum of 275 guest rooms and 1,400 square feet of ground floor restaurant/café. The project is located at 3031 – 3101 South Figueroa Street.

Case No. CPC-2014-1544-ZC-ZAD: On March 20, 2015, the City Planning Commission issued a determination to approve a project involving the amendment of existing Q conditions

and a shared parking agreement for a previously approved residential project containing 421 residential units and 74,516 square feet of commercial space within a seven-story mixed use building. The project is located at 3335 Figueroa Street.

Case No. CPC-2006-7446-GPA-ZC-HD-ZV-BL-SPR: On December 26, 2006, the City Planning Commission issued a determination to approve a project involving the construction of an eight-story mixed use building containing 421 residential units and 74,516 square feet of commercial space. The project is located at 3335 Figueroa Street.

## Project Design

As designed, the project will consist of a seven-story, 86-foot tall, residential building that will contain 73 residential units, 8,000 square feet of open space, and 78 parking spaces.

Residential units will be located on levels one through seven of the project. Parking will be provided within one subterranean and one at-grade garage level (level one). In addition to parking, the project's ground floor (level one) will contain a lobby, leasing office, mail room and trash room.

Subterranean vehicular access will be provided off the site's adjoining alley and at-grade parking will be accessed from 31st Street. Pedestrian access to proposed building is provided off 31st Street, with a secondary entrance provided from the alley and accessed internally from the proposed garage.

### Sustainability

After the public hearing, the representative indicated that the applicant will provide the installation of 1,877 square feet of solar panels, or 10% of the project's the total roof area. Additionally, the project has been conditioned to provide 20 percent of the parking as wired for future installation of EV Chargers and five percent with EV Chargers installed.

## Public Hearing

A public hearing on this matter with the Hearing Officer was held at City Hall on Wednesday, October 4, 2017 (see Public Hearing and Communications, Page P-1).

## Issues

### *Freeway Adjacent Advisory for Sensitive Uses*

The project is located less than 500 feet from the Interstate 110 (I-110) Freeway. As a result, the applicant was provided with the City Planning Commission issued "Freeway Adjacent Advisory for Sensitive Uses" and asked to provide a response to the recommended actions within the advisory.

As a result of the project's proximity to the freeway, a Health Risk Assessment (HRA) was prepared. The Assessment was prepared by Rincon Consultants in April 2017 to assess the potential impacts of toxic air contaminants (T ACs) from the nearby freeway on the project. As discussed in the assessment, the potential cancer, acute, and chronic health risks for on-site residential units would be below the SCAQMD significance thresholds. The maximum exposed individual receptor on the project site would be exposed to a high-end (95-percentile), 30-year excess cancer risk of approximately four in one million, which does not exceed SCAQMD's recommended cancer risk criteria of ten excess cases of cancer in one million individuals. The excess cancer risk for the average (50- percentile) residency of nine years would be approximately one in one million for an adult and approximately two in one million for a child, both of which are below SCAQMD's cancer risk criteria. Moreover, potential acute and chronic health

risks for on-site housing units were also determined to be below the SCAQMD hazard index of 1.0 for either acute or chronic effects. Therefore, the project would not expose proposed sensitive receptors to substantial pollutant concentrations and this impact would be less than significant.

In addition, the building's design has been revised and the balconies facing the freeway have been reduced by one foot each. This has been done to reduce the potential amount of individuals and time spent on these balconies. The applicant has expressed that they do not desire to fully eliminate these balconies, as it would eliminate exterior space and view of the mountains and the Downtown Los Angeles skyline, which is an amenity for residents. Balcony doors will be properly sealed to further reduce outdoor air exposure.

Furthermore, the applicant is agreeable to installing and maintain air filters meeting or exceeding the ASHRAE Standard 52.2. MERV 11 or higher to further reduce freeway impacts on residents.

Finally, it should be noted that the project was initially designed in a manner that takes into consideration the proximity to the freeway, given its lack of rooftop amenity space and its provision of a centralized courtyard located internal to the building.

***Professional Volunteer's Program (PVP)***

The proposed project was reviewed by the Urban Design's Professional Volunteer's Program (PVP) on August 29, 2017. The following includes a list of comments provided by PVP, following by the applicant's response:

**Façade:**

Comment No. 1:

*The project appears too much like a mimic of buildings commonly seen on the USC campus.*

Applicant's Response:

"We have incorporated a number of significant design revisions in response to feedback from the City Council Office, the Neighborhood Council (NANDC), and the PVP's requests and recommendations. These design refinements have resulted in a building that is distinctively different from the buildings commonly seen on the USC campus, which have a more Roman/Gothic style. The updates create more of an industrial looking building and were in direct response to this similar request from the Neighborhood Council, who upon being presented with the updates voted unanimously to support the project. The architecture is a contemporary brick and plaster structure with grey metal accents and contains additional industrial detailing that reference historic Los Angeles' architectural styles in the downtown area. The building meshes in with immediate neighborhood context, and reflects the area's historic industrial character."

Comment No. 2:

*Consider bringing the brick veneer finish down to the ground level to further differentiate and to fit in well the building's surroundings.*

Applicant's Response:

"An earlier rendition with more brick, was less well received by the community than the current design. We have worked closely with the Community (NANDC) and the Council Office to create a design that that was appealing to both groups. The differentiation of the base level of the building from the main brick body of the building, along with the articulation, is one of the buildings important design features. The break of the brick near the street level and incorporation of glass and windows, achieve a strong pedestrian scale at the street level

and was modeled from serval historic building examples in the both the community and downtown Los Angeles (ie The Dunbar Hotel)."

**Entrances:**

Comment No. 1:

*The pedestrian entrance to the lobby does not do enough to stand apart from the bicycle storage area on 31st Street.*

Applicant's Response:
"Because of this suggestion, the design has been revised to incorporate a two-story high recess along with a revision to the windows and the incorporation of raised letter signage to reinforce the main entrance to the building."

Comment No. 2:

*Rather than the awning over the pedestrian entrance, can the entrance be pushed in to the building? This would allow for a further differentiation and a larger covered area for residents.*

Applicant's Response:

"Because of this suggestion, the design has been revised to incorporate a more significant recess at the main entry resulting in additional coverage and greater sense of entry for the tenants."

Comment No. 3:

*Regarding the parkway, if you have the ability to modify the breaks in the parkway, there should be a break in front of the entrance. This would serve as another visual cue to the entrance.*

Applicant's Response:

"Because of this suggestion, the design has been revised to incorporate concrete breaks at the entries, especially the main entry to create the requested visual cues."

**Bicycle Parking:**

Comment No. 1:

*Rather than the green screen, can this be opened up or at least provide for some level of transparency?*

Applicant's Response:

"We have incorporated significant transparency at the street level including the main entrance, leasing office, and bicycle storage entrances and wanted to balance this with the limited use of the green wall adjacent to the vehicular entrance to soften and vary the palette the pedestrians encounter along the sidewalk. We originally had additional glass space and the community had requested a greater focus on vegetation and greenery and it was our objective to honor their request. The green wall helps screen the bicycle parking garage space from the sidewalk and pedestrian experience."

**Balconies:**

Comment No. 1:

*The transparency of the balconies is a concern, given the potential clutter factor. Can additional screening be provided? Maybe minimally on the first 3 or 4 feet above the ground.*

Applicant's Response:

"Because of this suggestion, we will use a perforated sheet metal panel with much denser and smaller openings to achieve the requested balcony screening. All balconies will be a minimum 3'6" deep for safety and visual screening."

**Outdoor Space:**

Comment No. 1:

*It unclear how widely used the proposed open terrace on the third floor would be*.

Applicant's Response:

"It is the intention of the Project to create multiple green areas for tenants to have separate spaces to enjoy individually or in a small group. The 3rd floor space is intended for small groups away from the large main 2nd floor patio space. The 3rd floor space also creates a visual green connection to the pedestrian foot traffic and breaks the mass of the building from the street, while allowing light to flow into the 2nd floor patio area."

Comment No. 2:

*Could the project be redesigned to provide a terraced space on each level for residents to use. OR Could the project be redesigned with a total of three terraced areas, each with a double height? You would have one on the third floor, another on the fifth, and a final on the seventh. This would make for a more dynamic and interesting building. Added terrace space could be swapped with the proposed balconies that face the freeway.*

Applicant's Response:

"The Project design is intended to bring light into the interior courtyard, and have a strong visual break in the building form and a connection to the street. The applicant studied providing additional terraces but it was determined that they would significantly block natural daylight to the courtyard and would decrease the quality of life of the tenants that plan to use that space. Additional upper level terraces above would also diminish the separation of the building's distinctive vertical elements." With regards to the removal of the balconies, "The NANDC Land Use Policy Committee requested that the building wasn't a monolith façade along 31st Street, which is another reason why we have the physical break along this façade. The balconies along the east façade also work to soften that façade, which the neighborhood was supportive of from both a visual and architectural perspective."

**Rooftop:**

Comment No. 1:

*What is the likelihood that the rooftop area could contain some kind of amenity?*

Applicant's Response:

"The Project is being designed as a Type 3A 5-story structure over 2-stories of Type 1 construction. The incorporation of rooftop terraces would trigger an A-3 occupancy which would not be permitted per the L.A. Building Code under our proposed building type. "

On October 30, 2017, the applicant submitted revised plans for the project as currently proposed, with the above described changes incorporated.

**Conclusion**

Planning has determined that the project will enhance the built environment in the surrounding neighborhood, and will provide new mixed income housing that is beneficial to the community and

greater region. The proposed mixed use development will provide the subject property with uses that are in-line with the needs and projected growth of the Southeast Community Plan. The project close proximity to public transit will provide convenient access residents and visitors and the redevelopment of the subject site will help reinvigorate this segment of 31st Street, aiding with the creation of a redeveloped, safe, and secure environment. While the project's request for additional floor area is significant, it will allow for the project to provide a truly mixed-income development.

Based on the public hearing, information submitted to the record, surrounding uses and zones, and subsequent revisions made to the project, staff recommends that the City Planning Commission approve the requested On-Menu Incentive and Off-Menu Incentive and Site Plan Review for the proposed 73 residential dwelling units. Additionally, staff recommends that the City Planning Commission find, based on its independent judgement, after consideration of the entire administrative record, that the project was environmentally assessed under ENV-2017-112-CE for the above referenced project.

# CONDITIONS OF APPROVAL

Pursuant to Sections 12.22-A.25, and 16.05 of the Los Angeles Municipal Code, the following conditions are hereby imposed upon the use of the subject property:

**A. Development Conditions:**

1. **Site Development.** Except as modified herein, the project shall be in substantial conformance with the architectural plans, renderings, and materials submitted by the Applicant, stamped "Exhibit A," dated October 31, 2017 and attached to the subject case file.

2. **Residential Density**. The project shall be limited to a maximum density of 73 dwelling units, consisting of six (6) dwelling units set aside for Very Low Income Households and two (2) units set aside for Moderate Income Households.

3. **Affordable Units.**

   a. A minimum of six (6) dwelling units, that is 11 percent of the base dwelling units permitted in the C2-1L Zone, shall be reserved as Very-Low Income units, as defined by the State Density Bonus Law 65915 (C)(2).

   b. Changes in Restricted Units. Deviations that increase the number of restricted affordable units or that change the composition of units or change parking numbers shall be consistent with LAMC Section 12.22-A,25.

4. **Housing Requirements.** Prior to issuance of a building permit, the owner shall execute a covenant to the satisfaction of the Los Angeles Housing and Community Investment Department (HCIDLA) to make 11% of the site's base density units available to Very-Low Income Households, for sale or rental as determined to be affordable to such households by HCIDLA for a period of 55 years. Enforcement of the terms of said covenant shall be the responsibility of HCIDLA. The applicant will present a copy of the recorded covenant to the Department of City Planning for inclusion in this file. The project shall comply with the Guidelines for the Affordable Housing Incentives Program adopted by the City Planning Commission and with any monitoring requirements established by the HCIDLA. Refer to the Density Bonus Legislation Background section of this determination.

5. **Incentives.**

   a. **Height and Stories**. The project may have a maximum height of 86 feet in lieu of the 75 feet permitted by the C2-1L Zone.

   b. **Floor Area Ratio (FAR)**. A maximum Floor Area Ratio (FAR) of 4:1 may be permitted in lieu of the 1.5:1 otherwise permitted by the C2-1L Zone.

6. **Open Space.** The project shall provide open space in accordance with LAMC Section 12.21-G. Planting of required trees within the public right-of-way shall obtain approval from the Urban Forestry Division prior to obtaining approval from the Department of City Planning.

7. **Landscaping.** Any trees that are required pursuant to LAMC Section 12.21-G and are planted on any rooftop or podium shall be planted in a minimum three (3) foot planter.

8. **Air Quality.** An air filtration system shall be installed and maintained with filters meeting or exceeding the ASHRAE Standard 52.2 Minimum Efficiency Reporting Value (MERV) of 12. The air filtration system shall be installed to the satisfaction of the Department of Building and Safety.

During operation, the Applicant or its successor shall verify that all air filters are properly maintained through inspection, self-certification, survey, or other equally effective measure. In addition, the Applicant or its successor shall be responsible for the replacement of all air filters at intervals to be established by the heating, ventilation and air conditioning (HVAC) system manufacturer. The Applicant or its successor shall retain, and make available to the City upon request, maintenance records related to the inspection and replacement of all air filters for at least 5 years after the recorded inspection date. The Applicant or its successor shall also ensure that long term funding for air filter maintenance and replacement is available.

9. **Sustainability.**

a. The project shall comply with the Los Angeles Municipal Green Building Code, Section 99.05.211, to the satisfaction of the Department of Building and Safety.

b. Prior to the issuance of the Certificate of Occupancy, the applicant shall install 1,877 square feet of solar panels as part of an operational photovoltaic system to be maintained for the life of the project. The solar panels may be installed within four designated areas, as indicated on the roof plan stamped Exhibit A. The designated areas may be revised; however, the total area shall not be less than 1,877 square feet.

c. **Electric Vehicle Parking.** The project shall include at least twenty percent (20%) of the total Code-required parking spaces provided for all types of parking facilities, but in no case less than one location, shall be capable of supporting future electric vehicle supply equipment (EVSE). Plans shall indicate the proposed type and location(s) of EVSE and also include raceway method(s), wiring schematics and electrical calculations to verify that the electrical system has sufficient capacity to simultaneously charge all electric vehicles at all designated EV charging locations at their full rated amperage. Plan design shall be based upon Level 2 or greater EVSE at its maximum operating capacity. Of the 20% EV Ready, five (5) percent of the total Code-required parking spaces shall be further provided with EV chargers to immediately accommodate electric vehicles within the parking areas. When the application of either the 20% or 5% results in a fractional space, round up to the next whole number. A label stating “EVCAPABLE” shall be posted in a conspicuous place at the service panel or subpanel and next to the raceway termination point.

10. **Parking**.

a. Minimum residential automobile parking requirements shall be provided consistent with AB 744, allowing 0.5 parking spaces per bedroom.

b. Tenants of the market rate residential dwelling units shall have the option to lease parking spaces separately from the residential dwelling units. Parking spaces for Restricted Affordable Units shall be sold or rented consistent with LAMC Section 12.22-A,25(d).

c. Adjustment of Parking. In the event that the composition of residential changes (i.e. the number of bedrooms), or the applicant selects another Parking Option (including Bicycle Parking Ordinance) and no other Condition of Approval or incentive is affected,

then no modification of this determination shall be necessary, and the number of parking spaces shall be re-calculated by the Department of Building and Safety based upon the ratios set forth pursuant to LAMC Section 12.22-A,25.

d. Bicycle Parking. Residential bicycle parking shall be provided consistent with LAMC 12.21-A,16.

11. Prior to the clearance of any tract map conditions, the applicant execute and record a Covenant and Agreement (Planning Department General Form CP-6770) in a form satisfactory to the Advisory Agency binding the applicant and any successor in interest to provide tenant relocation assistance and establish a relocation program in a manner consistent with LAMC Section 47.07 relating to demolition. The covenant and agreement shall be executed and recorded within 10 days after the expiration of the appeal period (and final action thereon) and a copy provided to each eligible tenant within five days of recordation of the covenant and agreement.

12. **Construction.** The project contractor shall use power construction equipment with state-of-the-art noise shielding and muffling devices. On-site power generators shall either be plug-in electric or solar powered.

13. **Noise.** All exterior windows having a line of sight of a Boulevard (Major or Secondary Highway) shall be constructed with double-pane glass and use exterior wall construction which provides a Sound Transmission Coefficient (STC) value of 50, as determined in accordance with ASTM E90 and ASTM E413, or any amendment thereto. Or, the applicant, as an alternative, may retain an acoustical engineer to submit evidence, along with the application for a building permit, any alternative means of sound insulation sufficient to mitigate interior noise levels below a CNEL of 45 dBA in any habitable room.

14. **Lighting.** Outdoor lighting shall be designed and installed with shielding, such that the light source cannot be seen from adjacent residential properties, the public right-of-way, nor from above.

15. **Glare.** The exterior of the proposed structure shall be constructed of materials such as, but not limited to, high- performance and/or non-reflective tinted glass (no mirror-like tints or films) and pre-cast concrete or fabricated wall surfaces to minimize glare and reflected heat.

16. **Air Quality.** All off-road construction equipment greater than 50 hp shall meet U.S. EPA Tier 4 emission standards, where available, to reduce $NO_x$, $PM_{10}$, and $PM_{2.5}$ emissions at the Project Site. In addition, all construction equipment shall be outfitted with Best Available Control Technology devices certified by ARB. Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by a Level 3 diesel emissions control strategy for a similarly sized engine as defined by ARB regulations. At the time of mobilization of each applicable unit of equipment, a copy of each unit's certified tier specification, BACT documentation, and ARB or SCAQMD operating permit shall be provided.

17. **Tree Removal (Public Right-of-Way).**

a. Removal of trees in the public right-of-way requires approval by the Board of Public Works.

b. The required Tree Report shall include the location, size, type, and condition of all existing trees in the adjacent public right-of-way and shall be submitted for review and

approval by the Urban Forestry Division of the Bureau of Street Services, Department of Public Works (213-847-3077).

c. The plan shall contain measures recommended by the tree expert for the preservation of as many trees as possible. Mitigation measures such as replacement by a minimum of 24- inch box trees in the parkway and on the site, on a 1:1 basis, shall be required for the unavoidable loss of significant (8-inch or greater trunk diameter, or cumulative trunk diameter if multi-trunked, as measured 54 inches above the ground) trees in the public right-of-way.

d. All trees in the public right-of-way shall be provided per the current Urban Forestry Division standards.

18. **Tree Removal (Nesting Birds).** The project would result in the removal of vegetation and disturbances to the ground and therefore may result in the removal of vegetation and disturbances to the ground and therefore may result in take of nesting native bird species. Migratory nongame native bird species are protected by international treaty under the Federal Migratory Bird Treaty Act (MBTA) of 1918 (50 C.F.R. Section 10.13). Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests including raptors and other migratory nongame birds (as listed under the Federal MBTA).

- Proposed project activities (including disturbances to native and non-native vegetation, structures, and substrates) should take place outside of the breeding bird season, which generally runs from March 1 – August 31 (as early as February 1 for raptors) to avoid take (including disturbances which would cause abandonment of active nests containing eggs and/or young). Take means to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture of kill (Fish and Game Code Section 86).
- If project activities cannot feasibly avoid the breeding bird season, beginning thirty days prior to the disturbance of suitable nesting habitat, the applicant shall arrange for weekly bird surveys to detect any protected native birds in the habitat to be removed and any other such habitat within properties adjacent to the project site, as access to adjacent areas allows. The surveys shall be conducted by a qualified biologist with experience in conducting breeding bird surveys. The surveys shall continue on a weekly basis with the last survey being conducted no more than 3 days prior to the initiation of clearance/construction work.
- If a protected native bird is found, the applicant shall delay all clearance/construction disturbance activities within 300 feet of suitable nesting habitat for the observed protected bird species until August 31.
- Alternatively, the Qualified Biologist could continue the surveys in order to locate any nests. If an active nest is located, clearing and construction within 300 feet of the nest or as determined by a qualified biological monitor, shall be postponed until the nest is vacated and juveniles have fledged and when there is no evidence of a second attempt at nesting. The buffer zone from the nest shall be established in the field with flagging and stakes. Construction personnel shall be instructed on the sensitivity of the area.
- The applicant shall record the results of the recommended protective measures described above to document compliance with applicable State and Federal laws received into the case file for the associated discretionary action permitting the project.

19. **Construction Noise.**

a. Two weeks prior to commencement of construction, notification shall be provided to the off-site residential and school uses within 500 feet of the project site that discloses the construction schedule, including the types of activities and equipment that would be used throughout the duration of the construction period.

b. The project developer shall schedule construction activities to avoid operating several pieces of equipment simultaneously, to the extent feasible, and use power construction equipment with state-of-the-art noise shielding and muffling devices.

c. Construction activities shall also require the use of temporary sound attenuating barriers along the project site boundary. Temporary sound attenuating barriers must be high enough and long enough to break the line-of-sight between the sound source and the receiver, and must be continuous with no gaps or holes between panels or the ground. Temporary sound barriers can include noise curtains, sound blankets, or solid temporary barriers. No temporary sound barriers would be required along the eastern site boundary.

d. All powered construction equipment shall be equipped with exhaust mufflers or other suitable noise reduction devices capable of achieving a sound attenuation of at least 3 dBA at 50 feet of distance.

e. All construction areas for staging and warming-up equipment shall be located as far as possible from adjacent noise-sensitive land uses.

f. Portable noise sheds for smaller, noisy equipment, such as air compressors, dewatering pumps, and generators shall be provided where feasible.

20. **Operational Noise.** The proposed project design shall incorporate the following or their equivalent to reduce potential impacts to future project residents: the windows of all residential units with direct exposure to S. Flower Street shall be dual pane, laminated or similar with a Sound Transmission Class (STC) rating of at least 30; exterior walls facing the street shall be constructed of staggered wood studs, or equipped with a resilient channel between the studs and wallboard, or any other wall system with an STC rating of at least 30; exterior balcony doors facing the street shall be of a sound insulating design with an STC rating of at least 30; and all exterior doors and windows should be installed with proper weather stripping.

21. **Tribal Cultural Resource Inadvertent Discovery.** In the event that objects or artifacts that may be tribal cultural resources are encountered during the course of any ground disturbance activities[1], all such activities shall temporarily cease on the project site until the potential tribal cultural resources are properly assessed and addressed pursuant to the process set forth below:

a. Upon a discovery of a potential tribal cultural resource, the project Permittee shall immediately stop all ground disturbance activities and contact the following: (1) all California Native American tribes that have informed the City they are traditionally and culturally affiliated with the geographic area of the proposed project; (2) and the Department of City Planning.

[1] Ground disturbance activities shall include the following: excavating, digging, trenching, plowing, drilling, tunneling, quarrying, grading, leveling, removing peat, clearing, pounding posts, augering, backfilling, blasting, stripping topsoil or a similar activity.

b. If the City determines, pursuant to Public Resources Code Section 21074 (a)(2), that the object or artifact appears to be tribal cultural resource, the City shall provide any effected tribe a reasonable period of time, not less than 5 days, to conduct a site visit and make recommendations to the Project permittee and the City regarding the monitoring of future ground disturbance activities, as well as the treatment and disposition of any discovered tribal cultural resources.

c. The project Permittee shall implement the tribe's recommendations if a qualified archaeologist, retained by the City and paid for by the project Permittee, reasonably concludes that the tribe's recommendations are reasonable and feasible.

d. The project Permittee shall submit a tribal cultural resource monitoring plan to the City that includes all recommendations from the City and any effected tribes that have been reviewed and determined by the qualified archaeologist to be reasonable and feasible. The project Permittee shall not be allowed to recommence ground disturbance activities until this plan is approved by the City.

e. If the project Permittee does not accept a particular recommendation determined to be reasonable and feasible by the qualified archaeologist, the project Permittee may request mediation by a mediator agreed to by the Permittee and the City who has the requisite professional qualifications and experience to mediate such a dispute. The project Permittee shall pay any costs associated with the mediation.

f. The project Permittee may recommence ground disturbance activities outside of a specified radius of the discovery site, so long as this radius has been reviewed by the qualified archaeologist and determined to be reasonable and appropriate.

g. Copies of any subsequent prehistoric archaeological study, tribal cultural resources study or report, detailing the nature of any significant tribal cultural resources, remedial actions taken, and disposition of any significant tribal cultural resources shall be submitted to the South Central Coastal Information Center (SCCIC) at California State University, Fullerton.

h. Notwithstanding the above, any information determined to be confidential in nature, by the City Attorney's office, shall be excluded from submission to the SCCIC or the general public under the applicable provisions of the California Public Records Act, California Public Resources Code, and shall comply with the City's AB 52 Confidentiality Protocols.

## B. <u>Administrative Conditions</u>

22. **Approvals, Verification and Submittals**. Copies of any approvals, guarantees or verification of consultations, reviews or approval, plans, etc, as may be required by the subject conditions, shall be provided to the Department of City Planning for placement in the subject file.

23. **Code Compliance.** All area, height and use regulations of the zone classification of the subject property shall be complied with, except wherein these conditions explicitly allow otherwise.

24. **Covenant.** Prior to the issuance of any permits relative to this matter, an agreement concerning all the information contained in these conditions shall be recorded in the County Recorder's Office. The agreement shall run with the land and shall be binding on

any subsequent property owners, heirs or assign. The agreement must be submitted to the Department of City Planning for approval before being recorded. After recordation, a copy bearing the Recorder's number and date shall be provided to the Department of City Planning for attachment to the file.

25. **Definition.** Any agencies, public officials or legislation referenced in these conditions shall mean those agencies, public offices, legislation or their successors, designees or amendment to any legislation.

26. **Enforcement.** Compliance with these conditions and the intent of these conditions shall be to the satisfaction of the Department of City Planning and any designated agency, or the agency's successor and in accordance with any stated laws or regulations, or any amendments thereto.

27. **Building Plans.** A copy of the first page of this grant and all Conditions and/or any subsequent appeal of this grant and its resultant Conditions and/or letters of clarification shall be printed on the building plans submitted to the Development Services Center and the Department of Building and Safety for purposes of having a building permit issued.

28. **Corrective Conditions.** The authorized use shall be conducted at all times with due regard for the character of the surrounding district, and the right is reserved to the City Planning Commission, or the Director pursuant to Section 12.27.1 of the Municipal Code, to impose additional corrective conditions, if, in the Commission's or Director's opinion, such conditions are proven necessary for the protection of persons in the neighborhood or occupants of adjacent property.

29. **Expedited Processing Section.** Prior to the clearance of any conditions, the applicant shall show proof that all fees have been paid to the Department of City Planning, Expedited Processing Section.

30. **Indemnification and Reimbursement of Litigation Costs.**

Applicant shall do all of the following:

a. Defend, indemnify and hold harmless the City from any and all actions against the City relating to or arising out of, in whole or in part, the City's processing and approval of this entitlement, including but not limited to, an action to attack, challenge, set aside, void, or otherwise modify or annul the approval of the entitlement, the environmental review of the entitlement, or the approval of subsequent permit decisions, or to claim personal property damage, including from inverse condemnation or any other constitutional claim.

b. Reimburse the City for any and all costs incurred in defense of an action related to or arising out of, in whole or in part, the City's processing and approval of the entitlement, including but not limited to payment of all court costs and attorney's fees, costs of any judgments or awards against the City (including an award of attorney's fees), damages, and/or settlement costs.

c. Submit an initial deposit for the City's litigation costs to the City within 10 days' notice of the City tendering defense to the Applicant and requesting a deposit. The initial deposit shall be in an amount set by the City Attorney's Office, in its sole discretion, based on the nature and scope of action, but in no event shall the initial deposit be less than $50,000. The City's failure to notice or collect the deposit does not relieve

the Applicant from responsibility to reimburse the City pursuant to the requirement in paragraph (ii).

d. Submit supplemental deposits upon notice by the City. Supplemental deposits may be required in an increased amount from the initial deposit if found necessary by the City to protect the City's interests. The City's failure to notice or collect the deposit does not relieve the Applicant from responsibility to reimburse the City pursuant to the requirement in paragraph (ii).

e. If the City determines it necessary to protect the City's interest, execute an indemnity and reimbursement agreement with the City under terms consistent with the requirements of this condition.

The City shall notify the applicant within a reasonable period of time of its receipt of any action and the City shall cooperate in the defense. If the City fails to notify the applicant of any claim, action, or proceeding in a reasonable time, or if the City fails to reasonably cooperate in the defense, the applicant shall not thereafter be responsible to defend, indemnify or hold harmless the City.

The City shall have the sole right to choose its counsel, including the City Attorney's office or outside counsel. At its sole discretion, the City may participate at its own expense in the defense of any action, but such participation shall not relieve the applicant of any obligation imposed by this condition. In the event the Applicant fails to comply with this condition, in whole or in part, the City may withdraw its defense of the action, void its approval of the entitlement, or take any other action. The City retains the right to make all decisions with respect to its representations in any legal proceeding, including its inherent right to abandon or settle litigation.

For purposes of this condition, the following definitions apply:

"City" shall be defined to include the City, its agents, officers, boards, commissions, committees, employees, and volunteers.

"Action" shall be defined to include suits, proceedings (including those held under alternative dispute resolution procedures), claims, or lawsuits. Actions include actions, as defined herein, alleging failure to comply with <u>any</u> federal, state or local law.

Nothing in the definitions included in this paragraph are intended to limit the rights of the City or the obligations of the Applicant otherwise created by this condition.

# FINDINGS

**Density Bonus/Affordable Housing Incentives Compliance Findings**

1. **Pursuant to Section 12.22 A.25(c) of the LAMC and Government Code Section 65915, the Director shall approve a density bonus and requested incentive(s) unless the director finds that the incentives do not result in identifiable and actual cost reductions to provide for affordable housing costs as defined in California Health and Safety Code Section 50052.5, or Section 50053 for rents for the affordable units.**

   The record does not contain substantial evidence that would allow the City Planning Commission to make a finding that the requested incentives do not result in identifiable and actual cost reduction to provide for affordable housing costs per State Law. The California Health & Safety Code Sections 50052.5 and 50053 define formulas for calculating affordable housing costs for very low, low, and moderate income households. Section 50052.5 addresses owner-occupied housing and Section 50053 addresses rental households. Affordable housing costs are a calculation of residential rent or ownership pricing not to exceed 25 percent gross income based on area median income thresholds dependent on affordability levels.

   The project provides 11% very-low income units to qualify for two incentives. The list of on-menu incentives in 12.22 A.25, included the herein requested 11-foot increase in building height, were pre-evaluated at the time the Density Bonus Ordinance was adopted to include types of relief that minimize restrictions on the size of the project. As such, the Department of City Planning will always arrive at the conclusion that the density bonus on-menu incentives are required to provide for affordable housing costs because the incentives, by their nature, increase the size of the project.

   The off-menu request, which is a request for an increase FAR to a maximum of 4:1 in lieu of 1.5:1 is not expressed in the Menu of Incentives Per LAMC Section 12.22-A,25(f) and, as such, are subject to LAMC Section 12.22-A,25(g)(3). The requested FAR increase will result in a building design or construction efficiencies that provides for affordable housing costs. The requested incentives allow the developer to expand the building envelope so the additional affordable units can be constructed and the overall space dedicated to residential uses is increased. These incentives support the applicant's decision to set aside 6 dwelling units for Very Low Income households for 55 years as well as the additional two units set aside for moderate income households.

   On-Menu Height Increase:
   The requested on-menu incentive allows the developer to expand the building envelope of the proposed residential building by allowing an increase in height beyond what would typically be permitted by-right on the subject site. The incentive will permit a building height of 86 feet in lieu of 75 feet. The 11-foot increase in height is allowable as an on-menu incentive to help alleviate the costs of providing the 11% of the project's base density units for very low income households. The increased building height will serve to facilitate the provision of the six restricted units for very low income households. The project will additionally set aside two units for moderate income households. Without the additional floor that the 11-foot height increase allows, the project will result in the removal of one floor level which contains 12 units, which would significantly impact the financial viability of the project.

   Off-Menu Floor Area Ratio Increase:
   Due to the scope of the project, the applicant has requested a 4:1 Floor Area Ratio (FAR) to accommodate the proposed number of units in the building and adequate amenity and open space within the building. The 1.5:1 FAR limitation on the subject site is intended to

regulate the scope and intensity of commercial uses on the property. The requested 4:1 FAR off-menu incentive is similar to the typical 4.05:1 FAR increase (35%) typically filed as an on-menu incentive in lieu of the 3:1 FAR typically allowed by-right for residentially zoned properties. The additional FAR would allow for the development of the additional dwelling units, as well as, ensuring that all the dwelling units are of a habitable size, while providing a variety of unit types.

***2.*** **Pursuant to Section 12.22 A.25(g)(3) of the LAMC, the decision-maker shall approve a density bonus and requested waiver or modification of any development standard unless the decision-maker, based upon substantial evidence, finds that the incentive <u>will have</u> a specific adverse impact upon public health and safety or the physical environment, or on any real property that is listed in the California Register of Historical Resources and for which there are no feasible method to satisfactorily mitigate or avoid the Specific Adverse Impact without rendering the development unaffordable to Very Low, Low and Moderate Income households. Inconsistency with the zoning ordinance or the general plan land use designation shall not constitute a specific, adverse impact upon the public health or safety.**

There is no evidence that the proposed incentive will have a specific adverse impact. A "specific adverse impact" is defined as, "a significant, quantifiable, direct and unavoidable impact, based on objective, identified written public health or safety standards, policies, or conditions as they existed on the date the application was deemed complete" (LAMC Section 12.22.A.25(b)). As required by Section 12.22 A.25 (e)(2), the project meets the additional eligibility criterion that is required for density bonus projects. The façade of the proposed building which faces 31st Street will be articulated with a break in its plane, so the facades are not flat surfaces and the ground and second floor pedestrian levels are distinct from those above. The structure will also be oriented toward the street with entrances, windows, and architectural features on street-facing elevations as required. The project does not involve a contributing structure in a designated Historic Preservation Overlay Zone or on the City of Los Angeles list of Historical-Cultural Monuments. Finally, according to ZIMAS, the project is not located on a substandard street in a Hillside area or a Very High Fire Hazard Severity Zone. Therefore, there is no substantial evidence that the proposed project will have a specific adverse impact on the physical environment, on public health and safety.

**<u>Site Plan Review Findings.</u>**

In order for the site plan review to be granted, all three of the legally mandated findings delineated in Section 16.05-F of the Los Angeles Municipal Code must be made in the affirmative.

**3. The project is in substantial conformance with the purposes, intent and provisions of the General Plan, applicable community plan, and any applicable specific plan.**

The Los Angeles General Plan sets forth goals, objectives, and policies that guide both Citywide and community specific land use policies. The General Plan is comprised of a range of State-mandated elements, including, but not limited to, Land Use, Housing, Transportation/Mobility, Noise, and Safety. Each of these Elements establishes policies that provide for the regulatory environment in managing the City and for addressing environmental concerns and problems. The majority of the policies derived from these Elements are in the form of Code Requirements of the Los Angeles Municipal Code. The City's Land Use Element is divided into 35 community plans that establish parameters for land use decisions within those sub-areas of the City. While the General Plan sets out a long-range vision and guide to future development, the 35 Community Plans provide the specific, neighborhood-level detail, relevant policies, and implementation strategies necessary to achieve the General Plan objectives. The project site is located entirely within

the boundaries of the Southeast Community Plan area and is designated for Community Commercial land uses. The project site does not have a specific land use designation in the General Plan Framework Element. As explained more fully below, the proposed Project would be in substantial conformance with the purposes, intent, and provisions of the General Plan and the Southeast Los Angeles Community Plan.

**Southeast Los Angeles Community Plan.**
The Community Plan designates the site for Community Commercial land uses, corresponding to the CR, C2, C4, and RAS3 Zones. The site is classified in the C2-1L Zone, does not propose to modify its zone designation, and, thus, is consistent with the planning and zoning of the Community Plan. The site's is located within the Greater Downtown Housing Incentive Area which does not limit density; however, the site is limited to a floor area ratio (FAR) of 1.5:1. By applying for a density bonus, the project has been filed with a by-right density calculation that forgoes the Greater Downtown Housing Incentive for unlimited density and calculates density at 1 dwelling unit per 400 square feet, consistent with typical C2 Zoned properties in the City of Los Angeles. The subject site's C2 zone permits a maximum density of 54 units by right. This is calculated by dividing the sum of the site's lot area, 20,607 square feet, and half of the area of the site's adjoining alley (612 square feet), totaling 21,219 square feet, by 400. The 35% density bonus entitles the project to a total of 73 residential units, six (6) of which will be reserved for very low income households, and an additional two (2) reserved for moderate income households.

The project involves the construction, use, and maintenance of a new seven-story apartment complex containing 73 residential units, 78 on-site vehicle parking spaces and 123 bicycle spaces, on a 20,607 square-foot site. The site is located within the South Los Angeles Alcohol Sales Specific Plan but no alcohol sales are proposed. The site is also located on the north side of 31st Street, within 480 feet of the Metro Expo Line USC/Jefferson stop that provides a major transit connection. In conjunction with the set aside, the applicant has requested an on-menu incentive for additional height and an off-menu waiver to allow additional FAR. Approval of the requested incentive and off-menu waiver would allow for the development of a mixed-use project which is consistent with the following goals, objectives, and policies of the Community Plan:

Goal 1: A safe, secure, and high quality residential environment for all economic, age, and ethnic segments of the community.

Objective 1-1: To provide for the preservation of existing housing and for the development of new housing to meet the diverse economic and physical needs of the existing residents and projected population of the Plan area.

Policy 1-1.2: Protect existing single-family and low density residential neighborhoods from encroachment by higher density residential and other incompatible uses.

Objective 1-2: To locate new housing in a manner which reduces vehicular trips and makes it accessible to services and facilities.

Policy 1-2.1: Locate higher residential densities near commercial centers, light mass transit stations, and major bus routes where public service facilities, utilities, and topography will accommodate this development.

Objective 1-5: To promote and ensure the provision of adequate housing for all persons regardless of income, age, or ethnic background.

The project proposes to remove the existing structure on the site, which involves an existing fourplex residential building. While the project will result in the removal of four existing housing units, the project will provide a modernized, safe, and secure new housing development that will contain units of mixed incomes (Objective 1-5), located near the convenience of mass public transit (Policy 1-2.1). In addition, consistent with the Municipal Code, the approval has been conditioned to require proof that any existing tenants have been paid their due relocation assistance prior to release of any permits. The project is consistent with Policy 1-1.2, which seeks to protect the encroachment of single- and low-density residential neighborhood by higher density, given that the subject site is not located with a residential neighborhood. It meets Objective 1-2, given its proximity to the Metro Expo Line (light rail) less than 500 feet away as well as the bus lines that travel down the Figueroa Street corridor. As proposed, the project would place new, mixed-income housing within proximity to existing services and transit opportunities, and upon a site that is consistent with zoning, its land use designation, as well as goals, objectives, and policies of its applicable community plan.

The Housing Element contains goals and objectives to encourage the development of "an adequate supply of rental and ownership housing" (Objective 1.1), as well as to "expand affordable rental housing for all income groups" (Policy 1.1.2). As proposed, the mixed-use development, which includes affordable dwelling units for very low income as well as moderate income, meets the objectives and policies of the Housing Element of the General Plan. Additionally, the Housing Element contains the following goals, objectives, and policies:

Goal 2: Safe, Livable, and Sustainable Neighborhoods.

Objective 2.1: Promote safety and health within neighborhoods.

Objective 2.2: Promote sustainable neighborhoods that have mixed-income housing, jobs, amenities, services, and transit.

Objective 2.3: Promote sustainable buildings, which minimize adverse effects on the environment and minimize the use of non-renewable resources.

Policy 2.3.3: Promote and facilitate the reduction of energy consumption in new and existing housing.

The project proposes, and has been conditioned, to install 1,877 square feet of solar panels within four designated areas and to provide a minimum of five (5) percent of installed EV chargers and 20 percent wired for installation of future EV chargers. The installation of EV chargers and wiring for future EV chargers would also be consistent with Policy 5.4 of the Mobility Element, which encourages "the adoption of low and zero emission fuel sources, new mobility technologies, and supporting infrastructure." Additionally, the project would comply with existing Green Building codes, which were adopted to help facilitate the reduction of energy consumption. As the project proposes to construct residential dwelling units in close proximity to the I-110 Freeway, the project has been conditioned to provide air filtration systems and construction of sound proof windows to reduce noise from the street. As such, the project is consistent with Goal 2 of the Housing Element and aforementioned objectives and policies.

As proposed and conditioned herein, the project would be consistent with the General Plan and the current and proposed Southeast Los Angeles Community Plan.

**4. The project consists of an arrangement of buildings and structures (including height, bulk and setbacks), off-street parking facilities, loading areas, lighting, landscaping, trash collection, and other such pertinent improvements, that is or will be compatible with existing and future development on adjacent properties and neighboring properties.**

The project involves the demolition of an existing residence on the project site for construction of one multi-family residential building. The building would be seven stories above ground and 86 feet in height, and would include 73 residential units, courtyards, a gym, patio, and two recreation rooms, and 78 vehicular parking spaces. Of the 73 dwelling units, six (6) units (11 percent of the project's base density) will be set aside for very-low income households and an additional two (2) units will be set aside for moderate income households. The building's proposed unit composition is made up of 28 two-bedroom units, 24 one-bedroom units and 21 studio units.

The project is located within the Southeast Los Angeles Community Plan, along the north side of 31st Street, east of Figueroa Street and west of the I-110 Freeway. Figueroa Street is an established commercial corridor, generally developed with low- to medium intensity commercial uses in the surrounding area. Properties in the surrounding area are zoned C2-1L, C2-2, R4-2, M1-2, PF-1, [Q]C2-1VL-O, and R3-1 and are improved with commercial, auto, retail, food, educational, medical, industrial, residential, and transportation uses. The following commercial uses surround the majority of the project site: a two-story, 25-foot tall commercial/retail building to the east; a 20-foot tall fine arts gallery and the Roski School of Art and Design Graduate Studios to the north; and a 13-foot tall fast food restaurant to the west. A two- story residence, a parking lot, and car dealership make up the uses south of the project site across West 31st Street. An alleyway is located immediately west of the project site that connects West 31st Street to West 30th Street. Along the east side of Flower Street, the Metro Expo Line (light rail) runs at grade, Interstate 110 (I-110) runs below grade, and I-110 ramps run above grade.

The following outlines various details and features of the project:

Height: The project will involve the construction of a seven story residential building the reaches a maximum height of 86 feet, with the requested 11-foot density bonus height incentive. While the project is taller than other buildings in the immediate vicinity, the building has been designed with material changes and a break in the massing that are intended to treat this increased height and increase the building's compatibility with the area. In addition, unlike many newly constructed buildings, the proposed project does not involve the provision of a rooftop deck which can have the potential to intensify the appearance of a building.

Bulk/Massing/Setbacks: Due to the project's location within the Greater Downtown Housing Incentive Area, housing development is encouraged and incentivized in the City's zoning code. Pursuant to LAMC Section 12.22-C.3(a), the project is not required to provide yard setbacks. The building, however, will be setback 10-feet along the side and rear property lines. A centralized cut-out will be provided on the 2nd level to create a courtyard that faces 31st Street. The feature provides a break and relief in the massing. At the ground floor, the project has been designed to maximize the pedestrian experience, with a recessed primary entrance that opens onto 31st Street. Landscaping surrounds the project to enhance the ground floor level experience and create a sense of space and transition. Entrances to the building are provided via street level as well as from the parking garage. The project design is intended to activate the street frontage and conceal the project's internal parking.

Off-Street Parking Facilities/Loading Area: Off-street parking for vehicles and bicycles are designed to be compatible with surrounding development. All required off-street parking will be provided on-site at the ground level and one subterranean level enclosed within the building. A total of 78 vehicular and 123 bicycle parking spaces are provided in compliance with applicable requirements. The project will support future electric vehicle ("EV") supply equipment, with EV ready parking spaces and chargers to immediately accommodate EVs within the garage. The residential project does not require a loading area but one will be provided for tenants. Vehicular access to the ground floor level of parking will be provided from 31st Street. The project's subterranean level of parking will be provided from the westerly adjoining public alley. A loading area will also be provided along the driveway located at the alley. The design of the project's off-street parking facilities has been appropriately planned to reduce negative impacts created by vehicles and will be compatible with existing and future development on adjacent and neighboring properties.

Landscaping: The project will provide landscaping around the perimeter of the building as well as within the central courtyard. In addition, the project will incorporate new street trees in the public right-of-way as required by the City's Street Tree Division and consistent with the City's landscape ordinance.

Trash Collection: The project will locate trash and recycling collection within the building. These collection areas will be enclosed within the project's parking structure in order to minimize any impacts on existing or future surrounding uses.

Building Materials: The project's varied material and color palette includes brick, beige stucco, black metal colored cladding, green walls, and translucent glass. Horizontal elements contrast vertical lines of proposed windows and glass balcony doors. A differentiation of the building's base level from the main brick body of the building is one of its focal design features. The break of the brick near the street level and incorporation of glass and windows achieve a strong pedestrian scale at the ground level and, as described by the applicant, was modeled from several historic building examples in both the community and Downtown Los Angeles (i.e. The Dunbar Hotel).

The project has been designed with attention to building orientation, massing, parking, and other improvements that create a compatible development. The building is designed to front on 31st Street and is articulated on all sides to provide architectural interest and visual breaks which help reduce the massing of the building, thereby making it more interesting to the surrounding area. The project will redevelop an underutilized site, located immediately adjacent to a major commercial corridor. The project will be appropriately located and designed to complement existing and future development.

**5. Any residential project provides recreational and service amenities to improve habitability for its residents and minimize impacts on neighboring properties.**

The project proposes provide a variety of unit types which include: 21 studios, 24 one-bedroom units, and 28 two-bedroom units. Pursuant to LAMC section 12.21-G, the project would be required to provide 8,000 square feet of open space. While the project requires the provision of open space, due to its location with the City's Greater Downtown Housing Incentive Area, pursuant to LAMC Section 12.22-C.3(d), the project does not require that a set percentage of open space be set as common space. This exception is intended to incentivize the production of housing units within the Greater Downtown area.

The project will provide 8,000 square feet of open space, the majority of which will be located on the new building's second floor level. This second level will include a 1,710

square-foot centralized, open courtyard; a 1,500 square-foot gym; a 1,310 square-foot recreation room; and a second 1,190 square-foot recreation room with a balcony. The remaining open space will be provided by a passive, open seating area on the 3rd floor, and private balconies dispersed throughout the project. All open space areas will be landscaped with both drought tolerant and shade giving species. The condition requiring 5% of the total auto parking spaces to be provided with EV chargers, in addition to the condition that the site install the stated amount of solar panels that will support the off-set of demand of all electrical uses at the site, such as electric vehicle charging, will jointly support the ability of future residents to use electric vehicles while living at the site. As proposed, the project would provide recreational and service amenities which would improve habitability for its residents and minimize impacts on neighboring properties.

**Environmental Findings**

**6. Environmental Finding.** Pursuant to State CEQA Guidelines and City of Los Angeles CEQA Guidelines, a Categorical Exemption (ENV-2017-112-CE) was prepared for the proposed project. Pursuant to Section 21084 of the California Public Resources Code, the above-referenced project has been determined not to have a significant effect on the environment and which shall, therefore, be exempt from the provisions of CEQA. On October 5, 2017, staff issued Categorical Exemption, Class 32 for the proposed project.

A project qualifies for a Class 32 Categorical Exemption under City CEQA Guidelines and State CEQA Guidelines Section 15322 if it is developed on an infill development project and meets the following criteria:

A. *The project is consistent with the applicable general plan designation and all applicable general plan policies as well as with the applicable zoning designation and regulations.*

According to the Los Angeles Land Use Map for the Southeast Los Angeles Community, the site is designated for Community Commercial land uses, corresponding to the CR, C2, C4, and RAS3 Zones. The site is classified in the C2-1L Zone, does not propose to modify its zone designation, and, thus, is consistent with the planning and zoning of the Community Plan. The site's is located within the Greater Downtown Housing Incentive Area which does not limit density; however, the site is limited to a floor area ratio (FAR) of 1.5:1. By applying for a density bonus, the project has been filed with a by-right density calculation that forgoes the Greater Downtown Housing Incentive for unlimited density and calculates density at 1 dwelling unit per 400 square feet, consistent with typical C2 Zoned properties in the City of Los Angeles. The subject site's C2 zone permits a maximum density of 54 units by right. This is calculated by dividing the sum of the site's lot area, 20,607 square feet, and half of the area of the site's adjoining alley (612 square feet), totaling 21,219 square feet, by 400. The 35% density bonus entitles the project to a total of 73 residential units, six (6) of which will be reserved for very low income households, and an additional two (2) reserved for moderate income households. Due to the project's location within the Greater Downtown Housing Incentive Area, housing development is encouraged and incentivized in the City's zoning code. Pursuant to LAMC Section 12.22-C.3(a), the project is not required to provide yard setbacks.

The project involves the construction, use, and maintenance of a new seven-story apartment complex containing 73 residential units, 78 on-site vehicle parking spaces and 123 bicycle spaces, on a 20,607 square-foot site. The site is located within the South Los Angeles Alcohol Sales Specific Plan but no alcohol sales are proposed. The site is also located on the north side of 31st Street, within 480 feet of the Metro Expo Line USC/Jefferson stop that provides a major transit connection. In conjunction

with the set aside, the applicant has requested an on-menu incentive for additional height and an off-menu waiver to allow additional FAR. Approval of the requested incentive and off-menu waiver would allow for the development of a mixed-use project which is consistent with the following goals, objectives, and policies of the Community Plan:

Goal 1: A safe, secure, and high quality residential environment for all economic, age, and ethnic segments of the community.

Objective 1-1: To provide for the preservation of existing housing and for the development of new housing to meet the diverse economic and physical needs of the existing residents and projected population of the Plan area.

Policy 1-1.2: Protect existing single-family and low density residential neighborhoods from encroachment by higher density residential and other incompatible uses.

Objective 1-2: To locate new housing in a manner which reduces vehicular trips and makes it accessible to services and facilities.

Policy 1-2.1: Locate higher residential densities near commercial centers, light mass transit stations, and major bus routes where public service facilities, utilities, and topography will accommodate this development.

Objective 1-5: To promote and ensure the provision of adequate housing for all persons regardless of income, age, or ethnic background.

The project proposes to remove the existing structure on the site, which involves an existing fourplex residential building. While the project will result in the removal of four existing housing units, the project will provide a modernized, safe, and secure new housing development that will contain units of mixed incomes (Objective 1-5), located near the convenience of mass public transit (Policy 1-2.1). In addition, consistent with the Municipal Code, the approval has been conditioned to require proof that any existing tenants have been paid their due relocation assistance prior to release of any permits. The project is consistent with Policy 1-1.2, which seeks to protect the encroachment of single- and low-density residential neighborhood by higher density, given that the subject site is not located with a residential neighborhood. It meets Objective 1-2, given its proximity to the Metro Expo Line (light rail) less than 500 feet away as well as the bus lines that travel down the Figueroa Street corridor. As proposed, the project would place new, mixed-income housing within proximity to existing services and transit opportunities, and upon a site that is consistent with zoning, its land use designation, as well as goals, objectives, and policies of its applicable community plan.

The Housing Element contains goals and objectives to encourage the development of “an adequate supply of rental and ownership housing” (Objective 1.1), as well as to “expand affordable rental housing for all income groups” (Policy 1.1.2). As proposed, the mixed-use development, which includes affordable dwelling units for very low income as well as moderate income, meets the objectives and policies of the Housing Element of the General Plan. Additionally, the Housing Element contains the following goals, objectives, and policies:

Goal 2: Safe, Livable, and Sustainable Neighborhoods.

Objective 2.1: Promote safety and health within neighborhoods.

Objective 2.2: Promote sustainable neighborhoods that have mixed-income housing, jobs, amenities, services, and transit.

Objective 2.3: Promote sustainable buildings, which minimize adverse effects on the environment and minimize the use of non-renewable resources.

Policy 2.3.3: Promote and facilitate the reduction of energy consumption in new and existing housing.

The project proposes, and has been conditioned, to install 1,877 square feet of solar panels within four designated areas and to provide a minimum of five (5) percent of installed EV chargers and 20 percent wired for installation of future EV chargers. The installation of EV chargers and wiring for future EV chargers would also be consistent with Policy 5.4 of the Mobility Element, which encourages "the adoption of low and zero emission fuel sources, new mobility technologies, and supporting infrastructure." Additionally, the project would comply with existing Green Building codes, which were adopted to help facilitate the reduction of energy consumption. As the project proposes to construct residential dwelling units in close proximity to the I-110 Freeway, the project has been conditioned to provide air filtration systems and construction of sound proof windows to reduce noise from the street. As such, the project is consistent with Goal 2 of the Housing Element and aforementioned objectives and policies.

As proposed and conditioned herein, the project would be consistent with the General Plan and the current and proposed Southeast Los Angeles Community Plan.

B. *The proposed development occurs within city limits on a project site of no more than five acres substantially surrounded by urban uses.*

The project site is located on a 20,607 (0.47 acre) parcel within a developed urban neighborhood. Properties in the surrounding area are zoned C2-1L, C2-2, R4-2, M1-2, PF-1, [Q]C2-1VL-O, and R3-1 and are improved with commercial, auto, retail, food, educational, medical, industrial, residential, and transportation uses.

The following commercial uses surround the majority of the project site: a two-story, 25-foot tall commercial/retail building to the east; a 20-foot tall fine arts gallery and the Roski School of Art and Design Graduate Studios to the north; and a 13-foot tall fast food restaurant to the west. A two- story residence, a parking lot, and car dealership make up the uses south of the project site across West 31st Street. An alleyway is located immediately west of the project site that connects West 31st Street to West 30th Street. Along the east side of Flower Street, the Metro Expo Line (light rail) runs at grade, Interstate 110 (I-110) runs below grade, and I-110 ramps run above grade.

C. *The project site has no value as habitat for endangered, rare or threatened species.*

The project site is located in a dense urban environment that is fully developed with a wide range of urban uses, structures, and pavement. A two-story, multi-family building and a vacant lot currently occupy the project site. The residence's outdoor area is mostly paved with minor landscaping elements and a single palm tree. The vacant dirt lot contains several mature ornamental trees along its periphery, as well as non-native grasses. A few palm trees are also planted in the sidewalk area in front of the project site along 31st Street.

Because the project site is within an urbanized area and is typical of an urban environment, it does not contain native biological habitats or habitats for special status species.

D. *Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality.*

Traffic: As discussed in Section 16, *Transportation*, of the IS-ND, potential transportation and traffic impacts were found to be less than significant or have no impact. Please refer to the IS-ND for the full analysis. The LADOT approved traffic study is included as Appendix H of the IS-ND.

Noise: As discussed in Section 12, *Noise*, of the IS-ND, potential noise impacts were found to be less than significant or have not impact. Please refer to the IS-ND for the full analysis.

Air Quality: As discussed in Section 3, *Air Quality,* of the IS-ND, potential air quality impacts were found to be less than significant. Please refer to the IS-ND for the full analysis, as well as the Health Risk Assessment provided as Appendix B of the IS-ND.

Water Quality: As discussed in Section 9, *Hydrology and Water Quality,* of the IS-ND, water quality impacts were found to be less than significant. Please refer to the IS-ND for the full analysis.

E. *The site can be adequately served by all required utilities and public services.*

The project would be located in an existing highly urban area served by existing public utilities and services. A substantial increase in demand for services or utilities would not be anticipated with implementation of the proposed project. The City of Los Angeles provides water, sewer, and solid waste collection services to the existing residential buildings and would continue to provide these services to the proposed project. Other services, including gas and electricity, would also continue to be provided to the proposed project by existing service providers.

As discussed in Section 14, Public Services, and Section 18, Utilities and Service Systems, of the ISND, the proposed project would not require the expansion of public services (fire, police, schools, parks, and libraries) or existing water, wastewater or stormwater drainage facilities; and the City would have sufficient water supplies and landfill capacity for the proposed project. Therefore, the site can be adequately served by all required utilities and public services. Please refer to the IS-ND for the full analysis.

Planning staff evaluated the exceptions to the use of Categorical Exemptions for the proposed ordinance listed in “CEQA Guidelines” Section 15300.2 and determined that none of the exceptions apply to the proposed project. Therefore, based on the facts herein, it can be found that the project meets the qualifications of the Class 32 Categorical Exemption and the Categorical Exemption reflects the Lead Agency’s independent judgment and analysis. The records upon which this decision is based are with the Environmental Review Section of the Planning Department in Room 750, 200 North Spring Street.

**7. Flood Insurance.** The National Flood Insurance Program rate maps, which are a part of the Flood Hazard Management Specific Plan adopted by the City Council by Ordinance

No. 172,081, have been reviewed and it has been determined that this project is located in Zone C, areas of minimal flooding.

# PUBLIC HEARING AND COMMUNICATIONS

A public hearing was held by the Hearing Officer at the City Hall on Wednesday, October 4, 2017 for Case No. CPC-2017-111-DB-SPR.

The public hearing was attended by the applicant, the applicant's representative, project architect, and approximately 15 members of the public, include a representative for the Council Office (Council Office 9 – Price).

The applicant's representative, presented the project and described the community outreach that was completed for the project. He reviewed the project design changes that have occurred throughout the development of the project's designed and stated that he would additional modifications as suggested by the Planning Department's Professional Volunteer Program, insomuch that they did not severely conflict with changes made in discussion with the public and council office.

The project architect walked through the design of the project and highlighted previous completed changes to the project.

Approximately five members of the public spoke in support of the project. The only questions asked were with regards to the affordable units. Some individuals expressed interest living in the proposed affordable units. The Council Office spoke in support of the project and reiterated the outreach that the applicant completed, commending the completed changes.

At the close of the public hearing, the Hearing Office announced the proposed City Planning Commission meeting date of November 16, 2017 and encouraged all interested parties to sign in to receive future notification and determinations on the proposed project.

# CPC-2017-111-DB-SPR
# Exhibit A - Plans

# 31st STREET APARTMENTS

505-517 W. 31st Street | Los Angeles | CA | 90007

Hochhauser Blatter
ARCHITECTURE AND PLANNING

122 E. ARRELLAGA
SANTA BARBARA
CALIFORNIA 93101
805 962 2746


31st STREET APARTMENTS
505-517 W. 31st Street
Los Angeles, CA - 90007
DESIGN DEVELOPMENT

## PROJECT DATA

**FLOOR AREA FOR FAR CALCULATION**

| | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | TOTALS |
|---|---|---|---|---|---|---|---|---|
| Residential Units | 0 | 7,090 | 10,460 | 10,460 | 10,460 | 10,460 | 10,460 | 59,390 |
| Amenities | 0 | 3,520 | 0 | 0 | 0 | 0 | 0 | 3,520 |
| Circulation \| Trash&Rec. | 1,183 | 2,050 | 2,050 | 2,050 | 2,050 | 2,050 | 2,050 | 13,483 |
| Lobby \| Leasing Office | 1,330 | 0 | 0 | 0 | 0 | 0 | 0 | 1,330 |
| Balconies | 0 | 665 | 815 | 815 | 815 | 815 | 780 | 4,705 |
| **TOTALS** | 2,513 | 13,325 | 13,325 | 13,325 | 13,325 | 13,325 | 13,290 | **82,428** |

**FAR CALCULATION**

*An off-menu Density Bonus Incentive requested pursuant to LAMC Section 12.22 A 25 (g) (3) to permit an increase in Floor Area Ratio from 1.5:1 to 4:1 in the C2-1L Zone*

| | |
|---|---|
| Total Building Area | 82,428 |
| Lot Area | 20,607 |
| **F.A.R.** | **4** |

**DENSITY CALCULATION**

*Planning & Zoning for property allows Residential Development by-right at the R4 Zone Density of 1 Dwelling Unit per 400 SF of lot area. Pursuant to LAMC Section 12.22 C 16, half the area of the abutting alley may be included in the density calculation for the site.*
*Pursuant to LAMC Section 12.22 A 25 (c) (1) and AB 2501, the base density (54 units rounded up) may be increased 35% (19 units) for providing 11% (6 units) very low income units.*
*Note, an additional 2 units of the 73 total units in the project will voluntarily be made affordable for moderate income households."*

| | |
|---|---|
| Lot Area | 20,607 |
| (1/2) Abutting Alley Area | 612 |
| Total Density Lot Area | 21,219 |

| | |
|---|---|
| Factor | 1 unit/400 sf |
| Allowable Base Units | 54.00 |
| *35% Density Bonus* | *1.35* |
| **Total Allowable Units** | **73** |

**UNIT COUNT**

| | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | TOTALS |
|---|---|---|---|---|---|---|---|---|
| Studio Units | 0 | 2 | 4 | 4 | 4 | 4 | 3 | 21 |
| 1-Bedroom Units | 0 | 4 | 4 | 4 | 4 | 4 | 4 | 24 |
| 2-Bedroom Units | 0 | 3 | 5 | 5 | 5 | 5 | 5 | 28 |
| **TOTALS** | 0 | 9 | 13 | 13 | 13 | 13 | 12 | **73** |

**PARKING REQUIRED**

*Required Parking pursuant to AB 744*

| | *Units* | *Factor* | | Totals |
|---|---|---|---|---|
| Studio Units | 21 | 0.5 | | 10.5 |
| 1-Bedroom Units | 24 | 0.5 | | 12.0 |
| 2-Bedroom Units | 28 | 1.0 | | 28.0 |
| Required Spaces per LAMC | | | | **51.0** |
| **Vehicle Parking Reduction pursuant to LAMC Section 12.21 A 4 (15% Near Transit - Metro Expo Line Jefferson/USC Station)* | | | | *0.85* |
| **Required Vehicle Parking Spaces after Bike Parking Reduction** | | | (17 Spaces) | **44.0** |

**Note: See bicycle parking provided below.*

**PARKING PROVIDED**

| | Standard Tandem | Compact Tandem | Standard | Compacts | EV | Accessible | Total |
|---|---|---|---|---|---|---|---|
| Basement Level | 22 | 22 | 1 | 0 | 0 | 0 | 45 |
| 1st Floor | 12 | 12 | 0 | 0 | 7 | 2 | 33 |
| Totals | 34 | 34 | 1 | 0 | 7 | 2 | **78** |

**BIKE PARKING REQUIRED**

| | |
|---|---|
| Long Term Spaces (1 per Unit) | 73 |
| Short Term Spaces (1 per 10 Units) | 8 |
| Bike Spaces Required per Code | **81** |

**BIKE PARKING (LONG-TERM) PROVIDED**

| | Bikes 1A | Bikes 1B | Bikes 1C | Bikes B | Off-Site | Total |
|---|---|---|---|---|---|---|
| Basement Level | 0 | 0 | 0 | 12 | | 12 |
| 1st Floor | 52 | 21 | 24 | 0 | | 97 |
| Total Long-Term Parking | 52 | 21 | 24 | 12 | | **109** |
| Total Short-Term Parking | | | | | 14 | 14 |
| Total Bike Parking | | | | | | **123** |

**OPEN SPACE**

| **Required** | Units | SF | Total |
|---|---|---|---|
| Studio | 21 | 100 | 2,100 sf |
| 1-Bedroom | 24 | 100 | 2,400 sf |
| 2-Bedroom | 28 | 125 | 3,500 sf |
| **Required Open Space** | | | **8,000** sf |

**Open Space % requirements per LAMC Section 12.21 G 2 not required pursuant to LAMC Section 12.22 C 3 (d) for property in the Greater Downtown Housing Incentive Area in the C2 Zone*

| **Provided** | Total |
|---|---|
| Private Open Space (34 Balconies x 50 SF) | 1,700 |
| Common Open Space | |
| Central Courtyard | 1,710 |
| Third Floor Seating Area | 540 |
| Amenities | |
| 2nd Floor Gym | 1,550 |
| Recreation Room #1 | 1,310 |
| Recreation Room #2 (Including balcony) | 1,190 |
| *Total* | **8,000** sf |

**Height Limit**

| | |
|---|---|
| Height Limit per Height District No. 1-L | 75 FT |
| On-menu Density Bonus Incentive requested pursuant to LAMC Section 12.22 A 25 (f) (5) to permit an increase in height of 11 feet in Height District No. 1-L | 11 FT |
| *Total* | **86** FT |

**No Yards required pursuant to LAMC Section 12.22 C 3 (a) for property in the Greater Downtown Housing Incentive Area in the C2 Zone**

## SHEET INDEX


**GOVERNMENT**

| | |
|---|---|
| A0.1 | COVER SHEET & STATISTICS |
| SURVEY | SURVEY |
| A0.2 | PLOT PLAN |

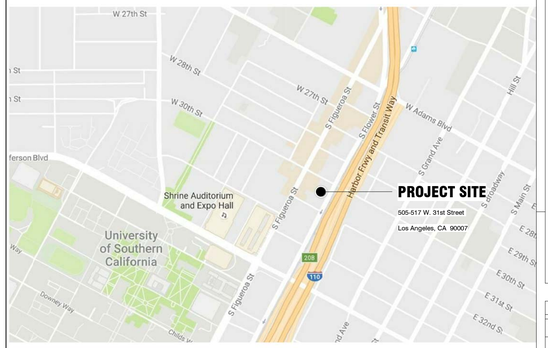
**ARCHITECTURAL**

| | |
|---|---|
| A2.0 | BASEMENT PLAN |
| A2.1 | 1ST FLOOR PLAN |
| A2.2 | 2ND FLOOR PLAN |
| A2.3 | 3RD FLOOR PLAN |
| A2.4 | 4TH-6TH FLOOR PLAN |
| A2.5 | 7TH FLOOR PLAN |
| A2.6 | ROOF PLAN |
| A3.1 | ELEVATIONS |
| A3.3 | RENDERINGS |
| A3.4 | RENDERINGS |
| A3.5 | RENDERINGS |
| A3.6 | RENDERINGS |
| A3.7 | RENDERINGS |
| A3.8 | RENDERING - PLAQUE |
| A4.1 | SECTION 1 |
| A4.2 | SECTION 2 |

**LANDSCAPE**

| | |
|---|---|
| LP-1 | PRELIM. LANDSCAPE PLAN - GROUND LEVEL |
| LP-2 | PRELIM. LANDSCAPE PLAN - 2ND FLOOR |
| LP-3 | PRELIM. LANDSCAPE PLAN - 3RD FLOOR |


## VICINITY MAP




## PROJECT DESCRIPTION

A 7-STORY MULTI-FAMILY RESIDENTIAL PROJECT THAT INCLUDES A MIX OF STUDIOS, 1-BED & 2-BED UNITS. THE PROJECT ALSO INCLUDES VARIOUS AMENITIES INCLUDING A GYM & RECREATION ROOMS. UNITS, AMENITIES AND OUTSIDE SEATING AREAS ADJOIN A SECOND LEVEL OPEN COURTYARD THAT WILL INCLUDE LANDSCAPE FEATURES & A SPA.
THE PARKING IS PROVIDED ON BASEMENT & FIRST FLOOR LEVELS- ACCESSED FROM EITHER 31st STREET (FIRST FLOOR) OR THE ADJACENT PUBLIC ALLEY (BASEMENT). REQUIRED COVERED AND SECURE BICYCLE PARKING IS PROVIDED AT THE FIRST FLOOR LEVEL WITH EASY ACCESS FROM THE RESIDENTIAL ENTRY LOBBY.

## PROJECT DIRECTORY


**OWNER | APPLICANT**
31st & Figueroa Holdings, LLC
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jared.brenner-goldstein@canfield-development.com
Office: 310-362-6168

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Contact: Jay Blatter, AIA

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**TRAFFIC ENGINEER:**
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Los Angeles, CA 90014
www.gibsontransportation.com
T: 213-683-0088
Fax: 213-683-0033
Contact: Jonathan Chambers, P.E.


## APPLICATION CODES

- 2016 LOS ANGELES BUILDING CODE
- 2016 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 C.C.R. *(2015 INTERNATIONAL BUILDING CODE)*
- 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- PART 5, 2010 CALIFORNIA ENERGY CODE (CEC)

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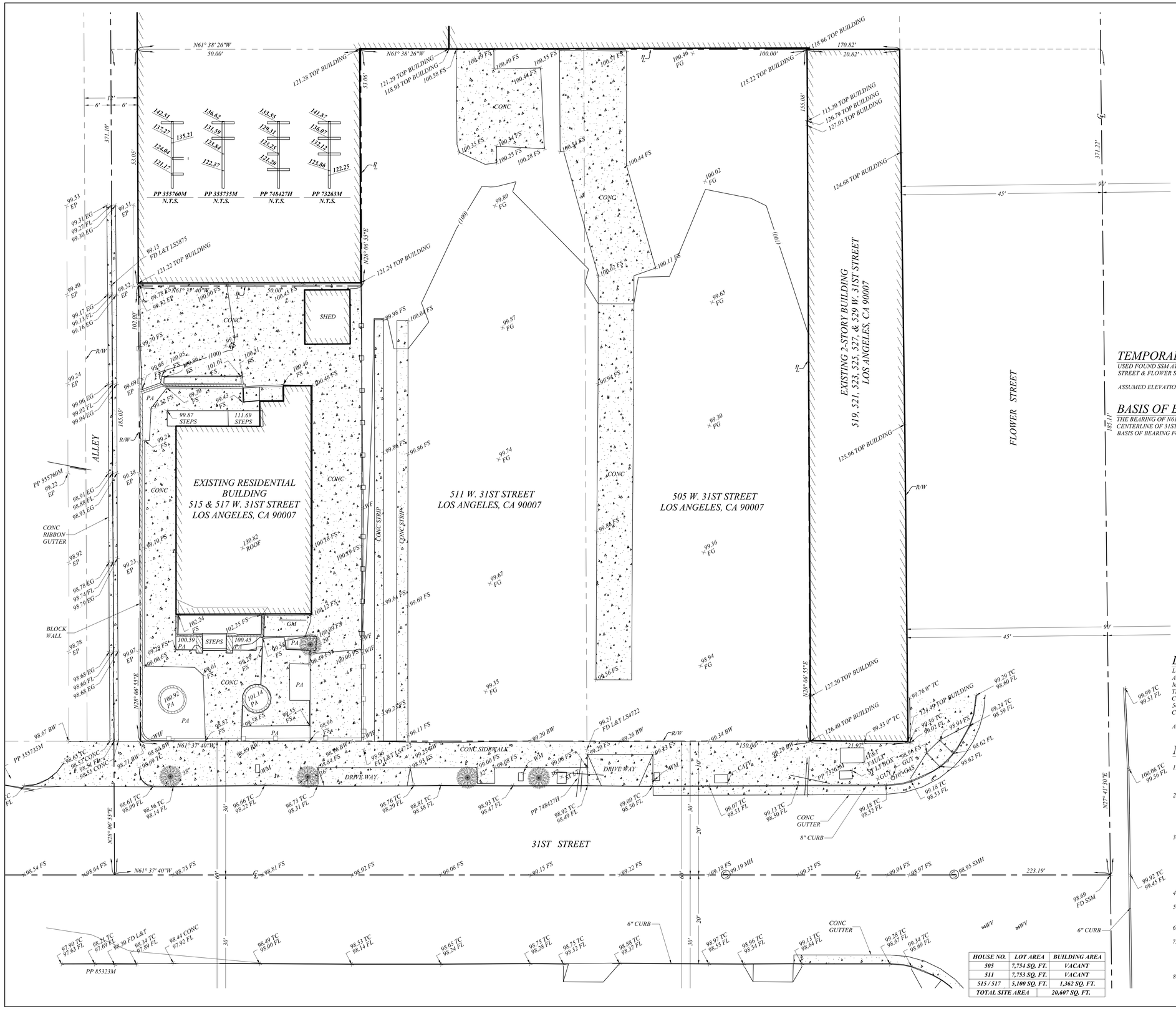
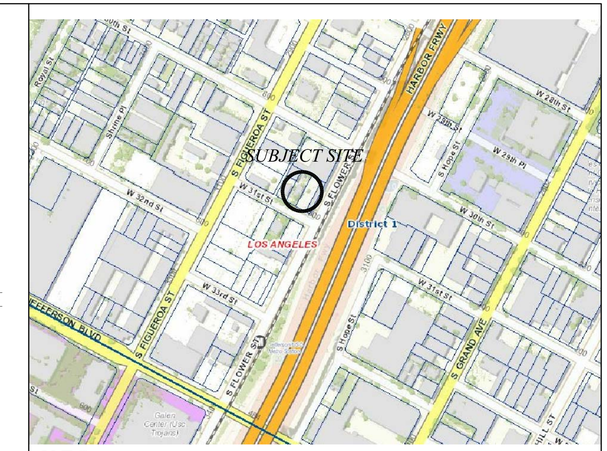
SHEET CONTENTS
COVER SHEET

PROJECT NO: 9828

SHEET
A0.1




N.T.S.

# VICINITY MAP

## TEMPORARY BENCHMARK:

USED FOUND SSM AT THE INTERSECTION OF 31ST STREET & FLOWER STREET.

ASSUMED ELEVATION = 98.69'

## BASIS OF BEARING:

THE BEARING OF N61°37'40"W ALONG THE CENTERLINE OF 31ST STREET, WAS USED AS THE BASIS OF BEARING FOR THIS MAP.

REGISTERED PROFESSIONAL LAND SURVEYOR
JUSTIN DENVER KELLY
No.9008
STATE OF CALIFORNIA

## LEGEND:

| | |
|---|---|
| AC | AIR CONDITIONING UNIT |
| CLF | CHAIN LINK FENCE |
| CO | CLEAN OUT(PRIVATE SEWER) |
| EG | EDGE GUTTER |
| EP | EDGE PAVEMENT |
| ES | EXISTING SURFACE |
| FF | FINISHED FLOOR |
| FG | FINISHED GRADE |
| FL | FLOW LINE |
| FD | FOUND |
| FS | FINISH SURFACE |
| GW | GUY WIRE |
| NG | NATURAL GRADE |
| PA | PLANTER AREA |
| PL | PROPERTY LINE |
| PP | POWER POLE |
| R/W | RIGHT OF WAY |
| SCO | SEWER CLEANOUT(PUBLIC) |
| SMH | SEWER MANHOLE |
| TC | TOP OF CURB |
| TW | TOP OF WALL |
| WF | WOOD FENCE |
| WIF | WROUGHT IRON FENCE |
| WV | WATER VALVE |
| 100.00 EG | SPOT ELEVATION |

GEOGRAPHIC

0 5 10 15 20 30 feet
Graphic Scale: 1" equals 10'

| HOUSE NO. | LOT AREA | BUILDING AREA |
|---|---|---|
| 505 | 7,754 SQ. FT. | VACANT |
| 511 | 7,753 SQ. FT. | VACANT |
| 515 / 517 | 5,100 SQ. FT. | 1,362 SQ. FT. |
| TOTAL SITE AREA | | 20,607 SQ. FT. |

## LEGAL DESCRIPTION:

LOTS 31 AND 32 OF STEWART'S NURSERY TRACT, IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 19 PAGE 56 OF MISCELLANEOUS RECORDS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY AND THE SOUTH 102 FEET OF LOT 33 OF STEWART'S NURSERY TRACT, IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 19, PAGE 56 OF MISCELLANEOUS RECORD, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY, CALIFORNIA.

APN: 5123-020-009, 5123-020-010, 5123-020-011

## NOTES:

1. BOUNDARIES WERE ESTABLISHED BY FIELD MEASUREMENT USING CITY, COUNTY, AND/OR PRIVATE ENGINEER AND SURVEYOR'S MONUMENTS FOUND AT OR NEAR THE SITE OR IN THE SURROUNDING STREETS.
2. IF EASEMENTS ARE SHOWN, THEY ARE FROM AN OWNER-SUPPLIED TITLE POLICY OR PRELIMINARY TITLE REPORT. PLOTABLE EASEMENTS WILL ONLY BE SHOWN. WE DO NOT GUARANTEE THE ACCURACY OR EXTENT OF THE INFORMATION SUPPLIED BY OTHERS. REFER TO SCHEDULE B OF THE THE PRELIMINARY REPORT REFERENCED BELOW FOR EASEMENT INFORMATION.
3. THE TITLE POLICY OR PRELIMINARY TITLE REPORT USED TO PREPARE THIS SURVEY WAS PREPARED BY:
   NAME OF COMPANY: PROVIDENT TITLE COMPANY
   ORDER NUMBER : 11358524 DATE: FEB. 18, 2016

   NAME OF COMPANY: FIDELITY NATIONAL TITLE INSURANCE COMPANY
   ORDER NUMBER : 996-23088421-KC1 DATE: SEP. 28, 2016
4. UNDERGROUND UTILITIES ARE NOT SHOWN.
5. LANDSCAPE AND LANDSCAPE IRRIGATION DEVICES EXIST WITHIN THE PROPERTY AND ARE NOT SHOWN
6. TREE LINE CANOPIES ARE NOT SHOWN.
7. PERTAINING TO SURVEY AND TOPO MAP, IF RETAINING WALLS OR SIMILAR STRUCTURES ARE TO BE DESIGNED FROM CONTOURS SHOWN ON THIS MAP, GROUND ELEVATIONS AT CRITICAL POINTS CONTROLLING THE DESIGN SHOULD BE VERIFIED BY DIRECT LOCATION AND LEVELS PRIOR TO FINAL DESIGN ADOPTION.
8. PRIOR TO CONSTRUCTION LAYOUT, ELEVATIONS AND HORIZONTAL CONTROL SHOULD BE FIELD VERIFIED BY THIS OFFICE. THIS OFFICE IS NOT LIABLE FOR ANY THIRD PARTY MEASUREMENTS.

PREPARED FOR:

31st & FIGUEROA HOLDINGS, LLC
1947 4 SANTA MONICA BLVD. #402
LOS ANGELES, CA 90025

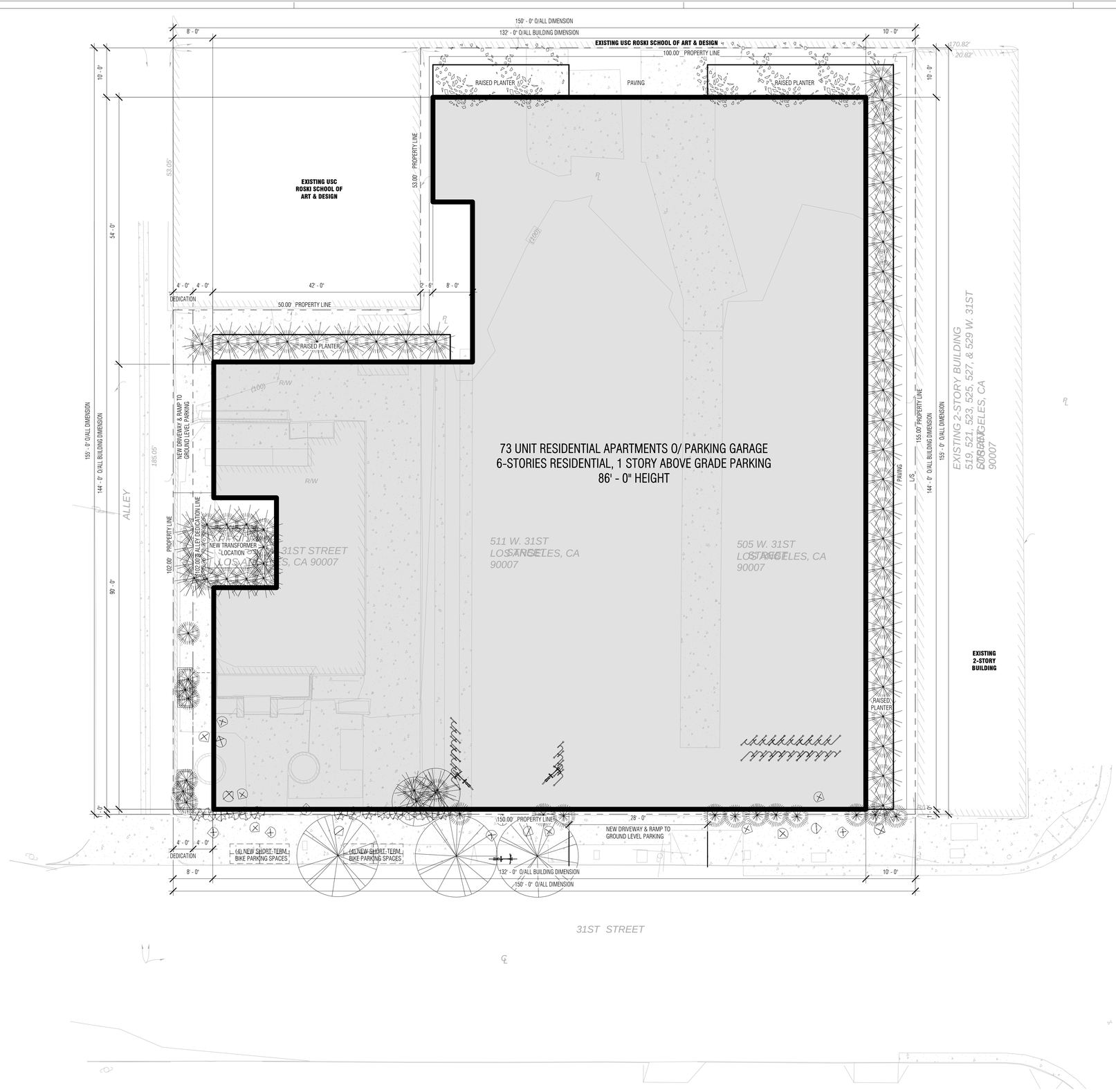
PREPARED BY:


5158 Cochran St.
Simi Valley, CA 93063
(805) 522-2306 ph
(805) 582-1226 fax
GeoWorks


| NO. | REVISIONS | DATE |
|---|---|---|

# CITY OF LOS ANGELES
# TOPOGRAPHIC SURVEY
## 505, 511, 515, 517 W. 31ST STREET

SHEET 1 OF 1 | JOB No.:GW2270 | DATE: 04/21/17




PLOT PLAN 1" = 10'-0" | 1

Hochhauser Blatter

ARCHITECTURE AND PLANNING

122 E. ARRELLAGA
SANTA BARBARA
CALIFORNIA 93101
805 962 2746

# 31st STREET APARTMENTS

505-517 W. 31st Street
Los Angeles, CA - 90007

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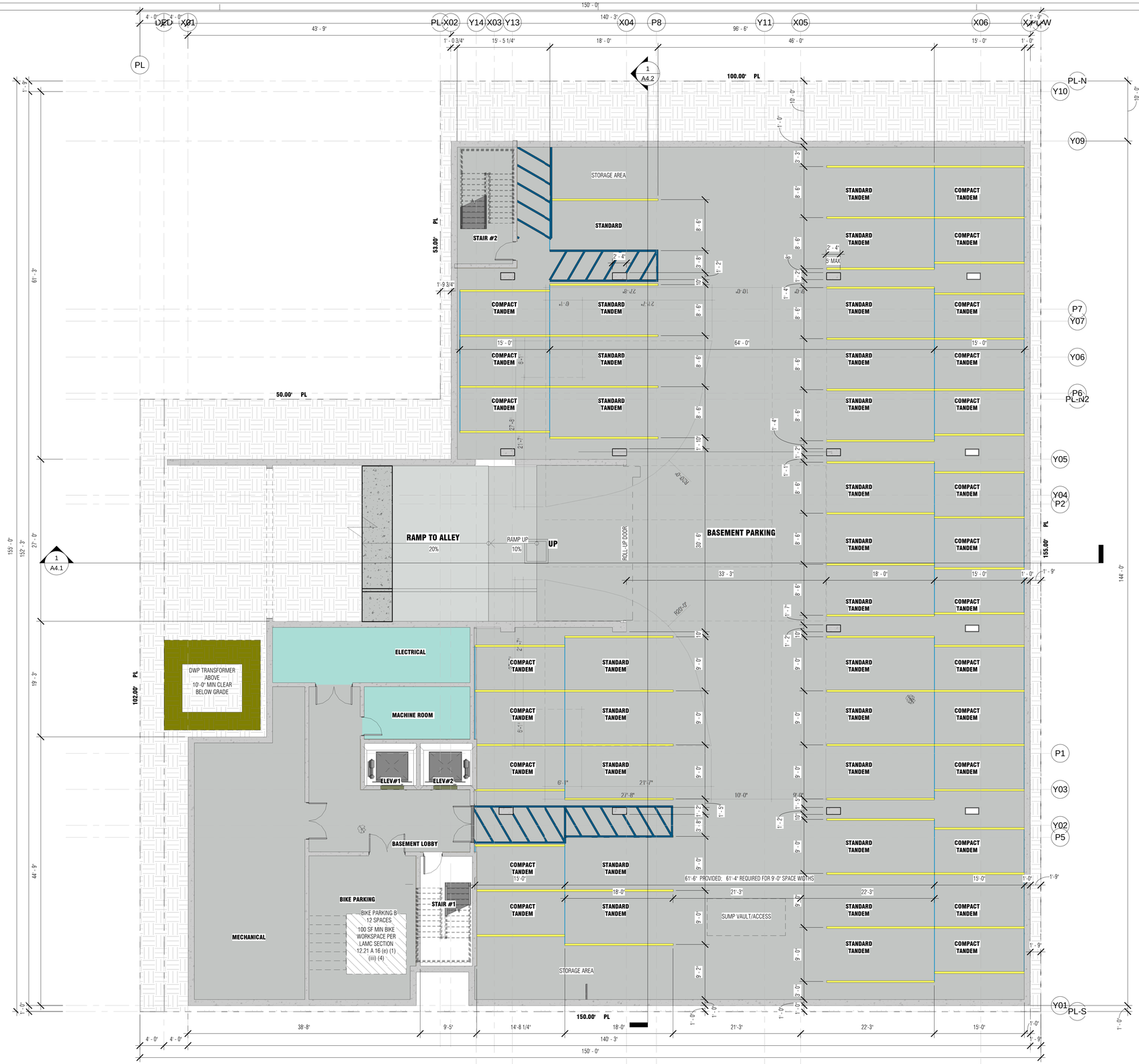
SHEET CONTENTS

PLOT PLAN

PROJECT NO: 9828

SHEET

A0.2

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SHEET CONTENTS

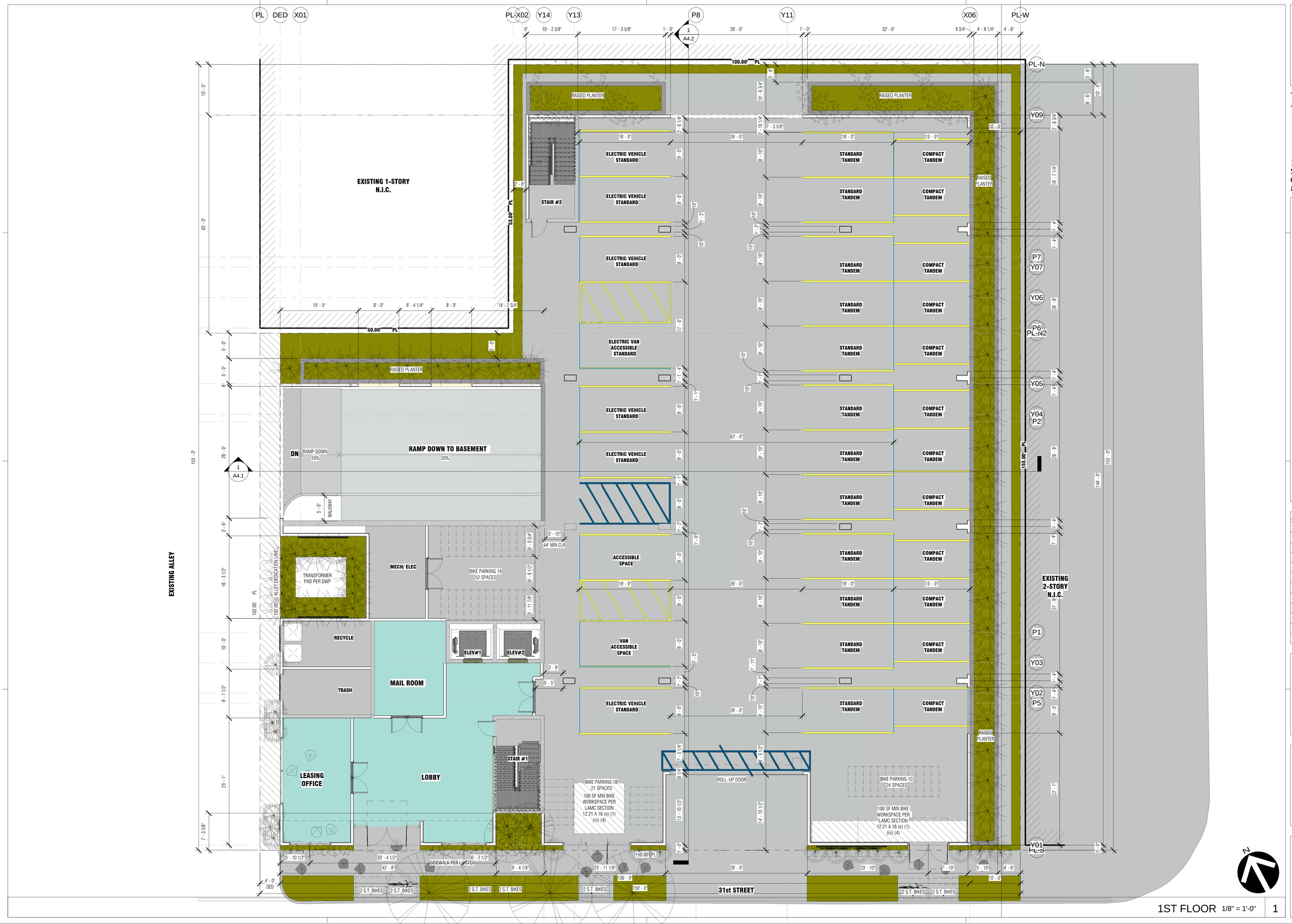
BASMENT FLOOR PLANS

PROJECT NO: 9828

SHEET

A2.0

BASEMENT 1/8" = 1'-0" 1




1ST FLOOR 1/8" = 1'-0" | 1

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SHEET CONTENTS

FLOOR PLANS

PROJECT NO: 9828

SHEET

A2.1

## LEGEND

- 1 BEDROOM UNIT
- 2 BEDROOM UNIT
- AMENITY SPACE
- STUDIO UNIT

2ND FLOOR 1/8" = 1'-0" | 1

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SHEET CONTENTS

2ND FLOOR PLAN

PROJECT NO: 9828

SHEET

A2.2

## LEGEND

- 1 BEDROOM UNIT
- 2 BEDROOM UNIT
- STUDIO UNIT

3RD FLOOR 1/8" = 1'-0" | 1

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SHEET CONTENTS

3RD FLOOR PLAN

PROJECT NO: 9828

SHEET

A2.3

## LEGEND

- 1 BEDROOM UNIT
- 2 BEDROOM UNIT
- STUDIO UNIT

4TH - 6TH FLOORS 1/8" = 1'-0" | 1

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SHEET CONTENTS

4TH-6TH FLOOR PLANS

PROJECT NO: 9828

SHEET

A2.4

## LEGEND

- 1 BEDROOM UNIT
- 2 BEDROOM UNIT
- STUDIO UNIT

7TH FLOOR 1/8" = 1'-0" | 1

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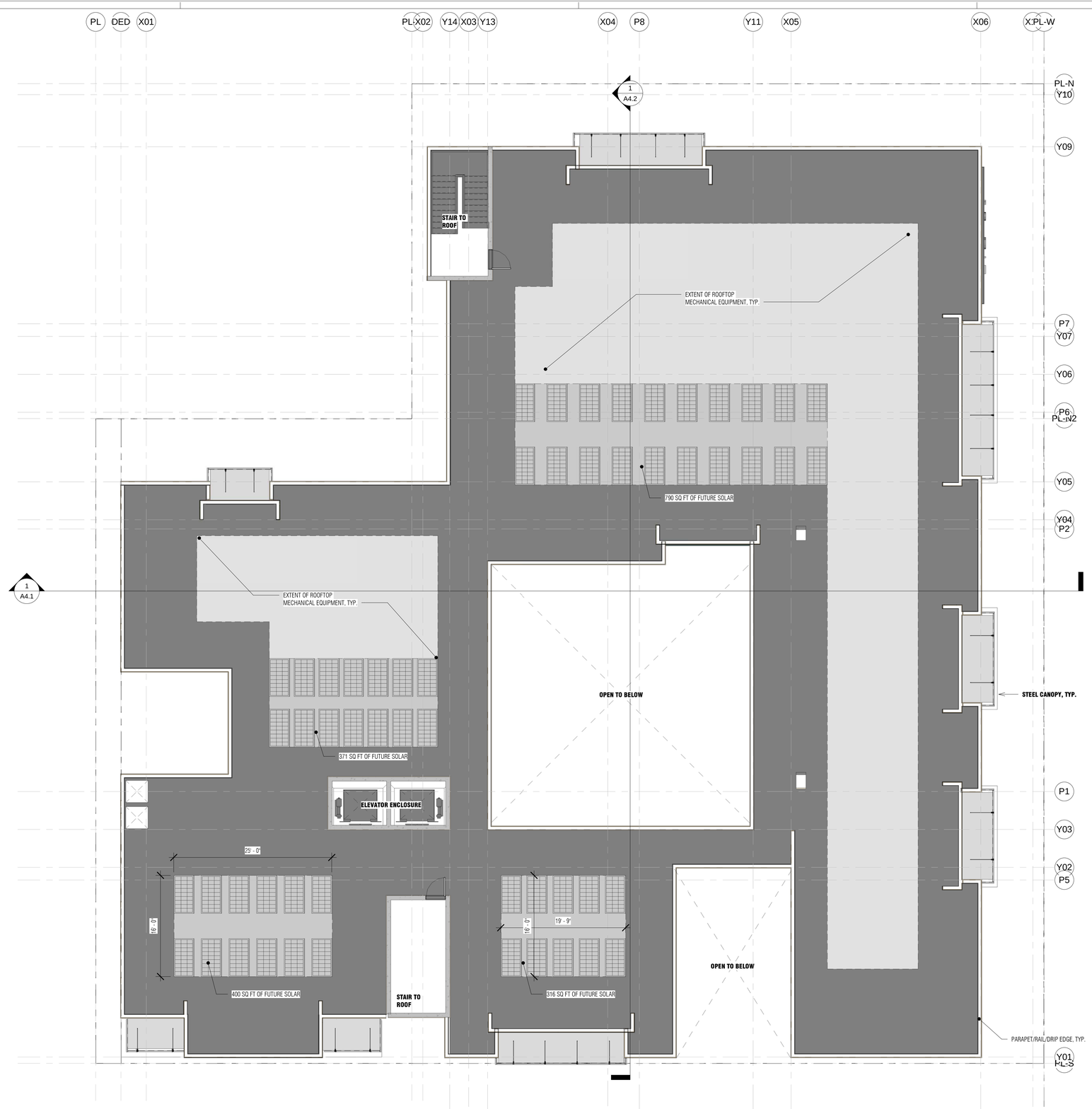
SHEET CONTENTS

7TH FLOOR PLAN

PROJECT NO: 9828

SHEET

A2.5




ROOF 1/8" = 1'-0" | 1

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SHEET CONTENTS

ROOF PLAN

PROJECT NO: 9828

SHEET

A2.6

SOUTH ELEVATION 1/16" = 1'-0" | 1

EAST ELEVATION 1/16" = 1'-0" | 2

NORTH ELEVATION 1/16" = 1'-0" | 3

WEST ELEVATION 1/16" = 1'-0" | 4

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SHEET CONTENTS

ELEVATIONS

PROJECT NO: 9828

SHEET

A3.1

SE CORNER VIEW | 1

NE CORNER VIEW | 2

NW CORNER VIEW | 3

SW CORNER VIEW | 4

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SHEET CONTENTS

RENDERINGS

PROJECT NO: 9828

SHEET

A3.3

VIEW FROM 31ST | 2

VIEW FROM FLOWER STREET AND 31ST STREET | 1

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SHEET CONTENTS

3D STREET VIEWS

PROJECT NO: 9828

SHEET

A3.4

STREET VIEW 1 | 1

STREET VIEW 2 | 2

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SHEET CONTENTS

RENDERING

PROJECT NO: 9828

SHEET

A3.5

STREET VIEW 3

1

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SHEET CONTENTS

RENDERING

PROJECT NO: 9828

SHEET

A3.6

STREET VIEW 4

1

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SHEET CONTENTS

RENDERING

PROJECT NO: 9828

SHEET

A3.7

STREET VIEW OF PLAQUE | 1

CLOSE UP VIEW OF PLAQUE | 2

Hochhauser Blatter

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SHEET CONTENTS

RENDERING - PLAQUE

PROJECT NO: 9828

SHEET

A3.8

Section 1 1/8" = 1'-0" | 1

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SHEET CONTENTS

SECTIONS

PROJECT NO: 9828

SHEET

A4.1

Section 2 1/8" = 1'-0" | 1

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SHEET CONTENTS

SECTIONS

PROJECT NO: 9828

SHEET

A4.2

1 PRELIMINARY LANDSCAPE PLAN - GL.

SCALE: 1/8"=1'-0"

N

KEYNOTES

1. RAISED PLANTER
2. SCREENING PLANT

PLANTING LEGEND

| TREES | SIZE & QUAN. |
|---|---|
| CITRUS KUMQUAT 'NAGAMI' NAGAMI KUMQUAT | 24" BOX/ 5 EA. |
| GEIJERA PARVIFOLIA AUSTRALIAN WILLOW | 24" BOX/3 EA. |
| PODOCARPUS MACROPHYLLUS YEW PINE | 15 GAL/58 EA. |
| EXISTING STREET PALM TREE TO BE REMOVED | |

| SHRUBS AND GROUNDCOVER | SIZE & QUAN. |
|---|---|
| CORTADERIA SELLOANA PUMILA DWARF PAMPAS GRASS | 15 GAL/40 EA. @ 18" O.C. |

CITRUS KUMQUAT 'NAGAMI' NAGAMI KUMQUAT

PODOCARPUS MACROPHYLLUS YEW PINE

GEIJERA PARVIFOLIA AUSTRALIAN WILLOW

CORTADERIA SELLOANA PUMILA DWARF PAMPAS GRASS


Hochhauser Blatter

ARCHITECTURE AND PLANNING

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Los Angeles - CA - 90007

| DATE: | ISSUANCE OR REVISION |
|---|---|
| 12/21/2016 | PLANNING REVIEW |
| 01/10/2017 | ENTITLEMENT SUBMITTAL |
| 04/18/2017 | SUBMITTAL UPDATE |
| 06/27/2017 | SUBMITTAL UPDATE |


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SHEET CONTENTS

PRELIMINARY LANDSCAPE PLAN - GROUND LEVEL

PROJECT NO: 216101

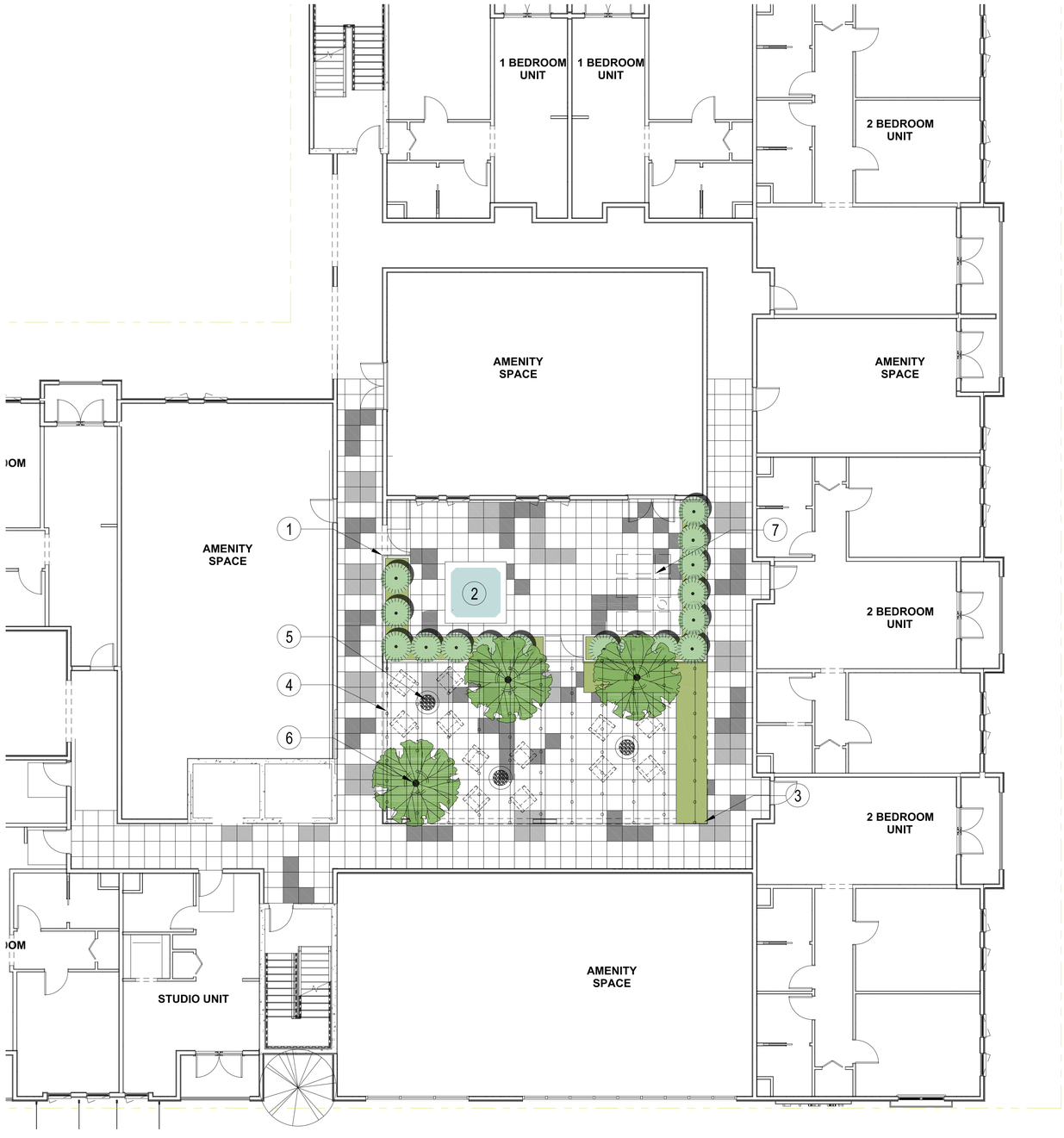
SHEET

LP-1

OF ALL SHEETS

LATEST REVISION


SQLA INC
Landscape Architects
380 N. PALM ST. SUITE B T. 562-905-0800 (Main)
BREA, CA. 92821 F. 562-905-0880
la@sqlainc.com T. 213-383-1788 (Studio)
www.sqlainc.com

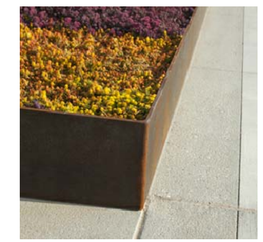



1 PRELIMINARY LANDSCAPE PLAN - 2ND FL.
SCALE: 1/8"=1'-0"

N

KEYNOTES

1. POOL ENCLOSURE 5'H. GLASS FENCE
2. SPA

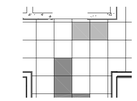


3. 24" H. STEEL PLANTER

4. STRING LIGHT

5. FIREPIT
6. TREE IN POT
7. CHASE LOUNGE

PAVING LEGENDS



18" X 18" PAVING TILE

PLANTING LEGENDS

GLEDITSIA TRIACANTHOS
HONEY LOCUST

BAMBUSA ALPHONSE KARR
GOLDEN BAMBOO

15 GAL.


Hochhauser Blatter
ARCHITECTURE AND PLANNING

122 E. ARRELLAGA
SANTA BARBARA
CALIFORNIA 93101
805 962 2746


31st STREET APARTMENTS
505-517 W. 31st Street
Los Angeles - CA - 90007

| DATE: | ISSUANCE OR REVISION |
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| 12/21/2016 | PLANNING REVIEW |
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SHEET CONTENTS
PRELIMINARY LANDSCAPE PLAN - 2ND FLOOR

PROJECT NO: 216101

SHEET
LP-2

OF ALL SHEETS
LATEST REVISION


SOLA INC
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380 N. PALM ST. SUITE B
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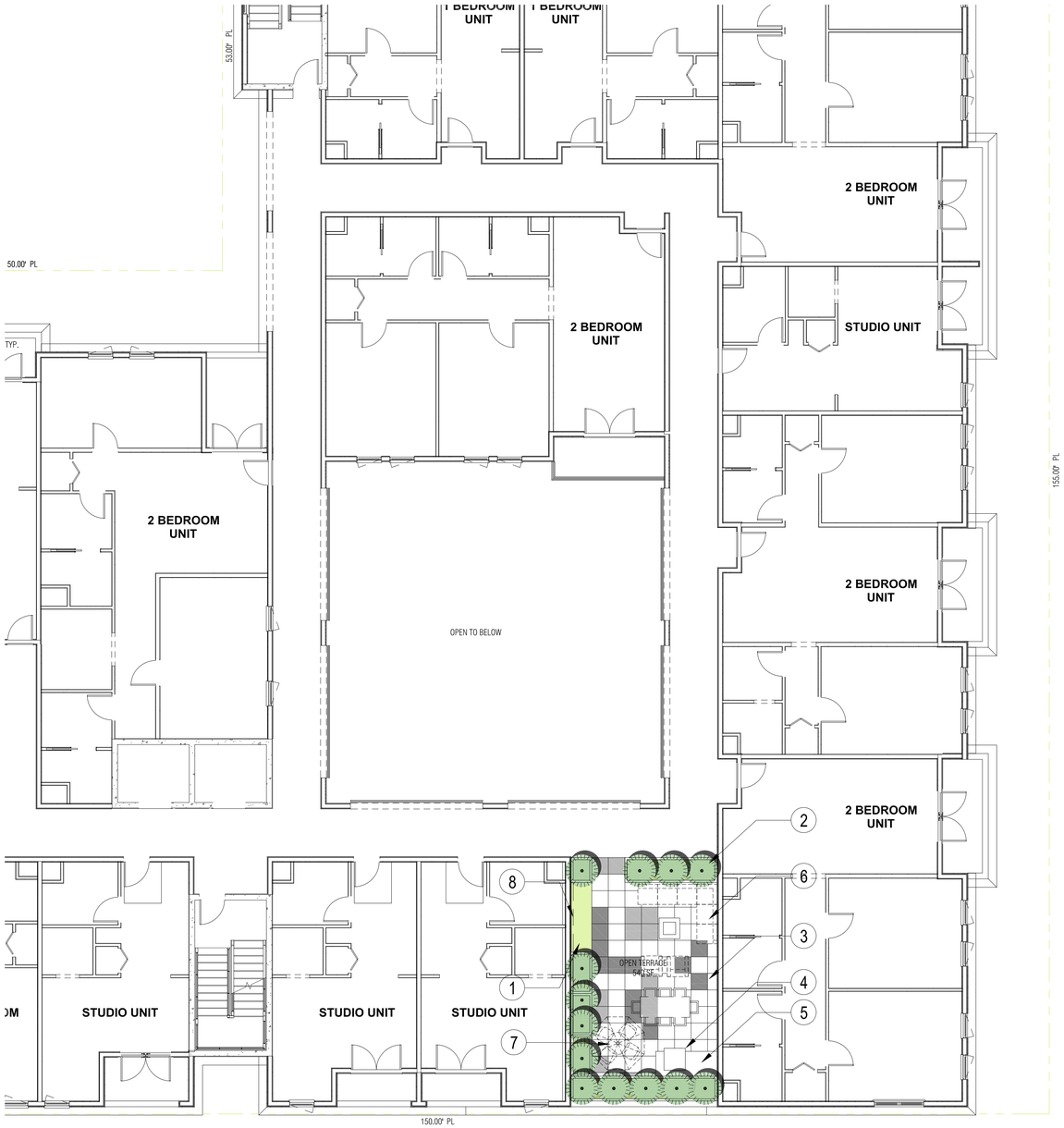
la@solainc.com
www.solainc.com
T. 562-905-0800 (Main)
F. 562-905-0880
T. 213-383-1788 (Studio)




1 PRELIMINARY LANDSCAPE PLAN 3RDFL.
SCALE: 1/8"=1'-0"

N

OPEN SPACE LANDSCAPE CALCULATION

TOTAL COMMON OPEN SPACE AREA 540 SF.
REQUIRED LANDSCAPE AREA: 135 SF. (25%)
PROVIDED LANDSCAPE AREA: 152.5 SF. (28.2%)

KEYNOTES

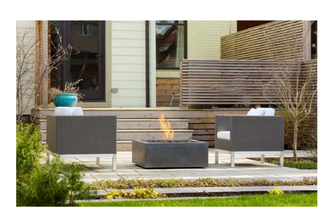
1. 24"X24" LIVE ROOF PLANTING AREA

2. 36"H. FRP RECTANGULAR POT W/ BAMBOO

3. DECK PAVERS OVER PEDESTALS
TILETECH PAVERS
24" x 24"x 3/4"THK.
APPRX. WEIGHT = 9.21 lbs/sf
www.tiletechpavers.com

4. AMERICAN OUTDOOR GRILLS
MODEL: 36PCT
www.americanoutdoorgrill.com

5. BAR



6. LOUNGE WITH FIREPIT
7. DINNING TABLES
8. OUTDOOR TV MOUNDED ON OUTDECO PANELS

PLANTING LEGENDS

BAMBUSA ALPHONSE KARR 15 GAL.
GOLDEN BAMBOO


Hochhauser Blatter
ARCHITECTURE AND PLANNING
122 E. ARRELLAGA
SANTA BARBARA
CALIFORNIA 93101
805 962 2746


# 31st STREET APARTMENTS

505-517 W. 31st Street
Los Angeles - CA - 90007

| DATE: | ISSUANCE OR REVISION |
|---|---|
| 12/21/2016 | PLANNING REVIEW |
| 01/10/2017 | ENTITLEMENT SUBMITTAL |
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SHEET CONTENTS
PRELIMINARY LANDSCAPE PLAN - 3RD FLOOR

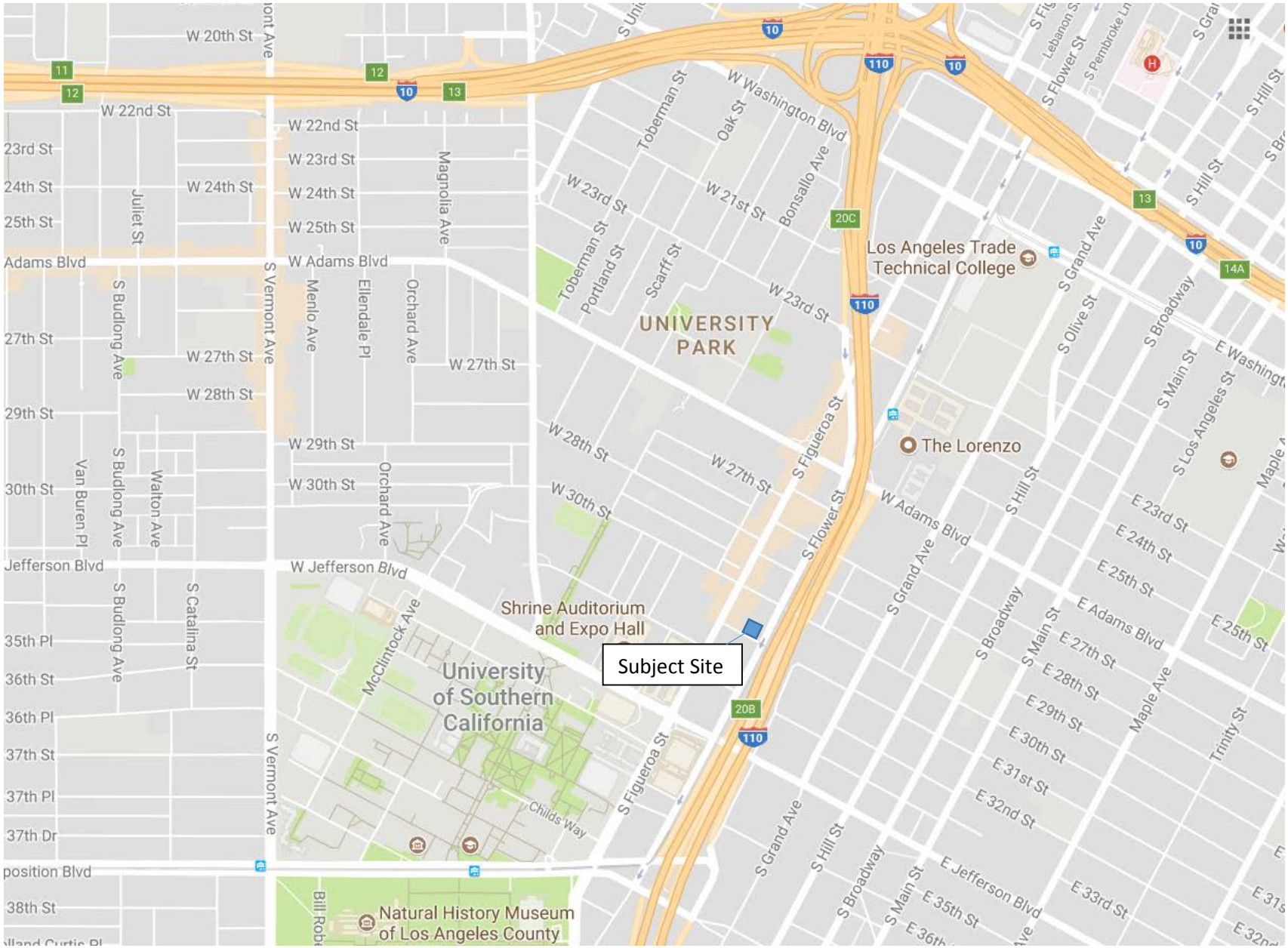
PROJECT NO: 216101

SHEET
LP-3

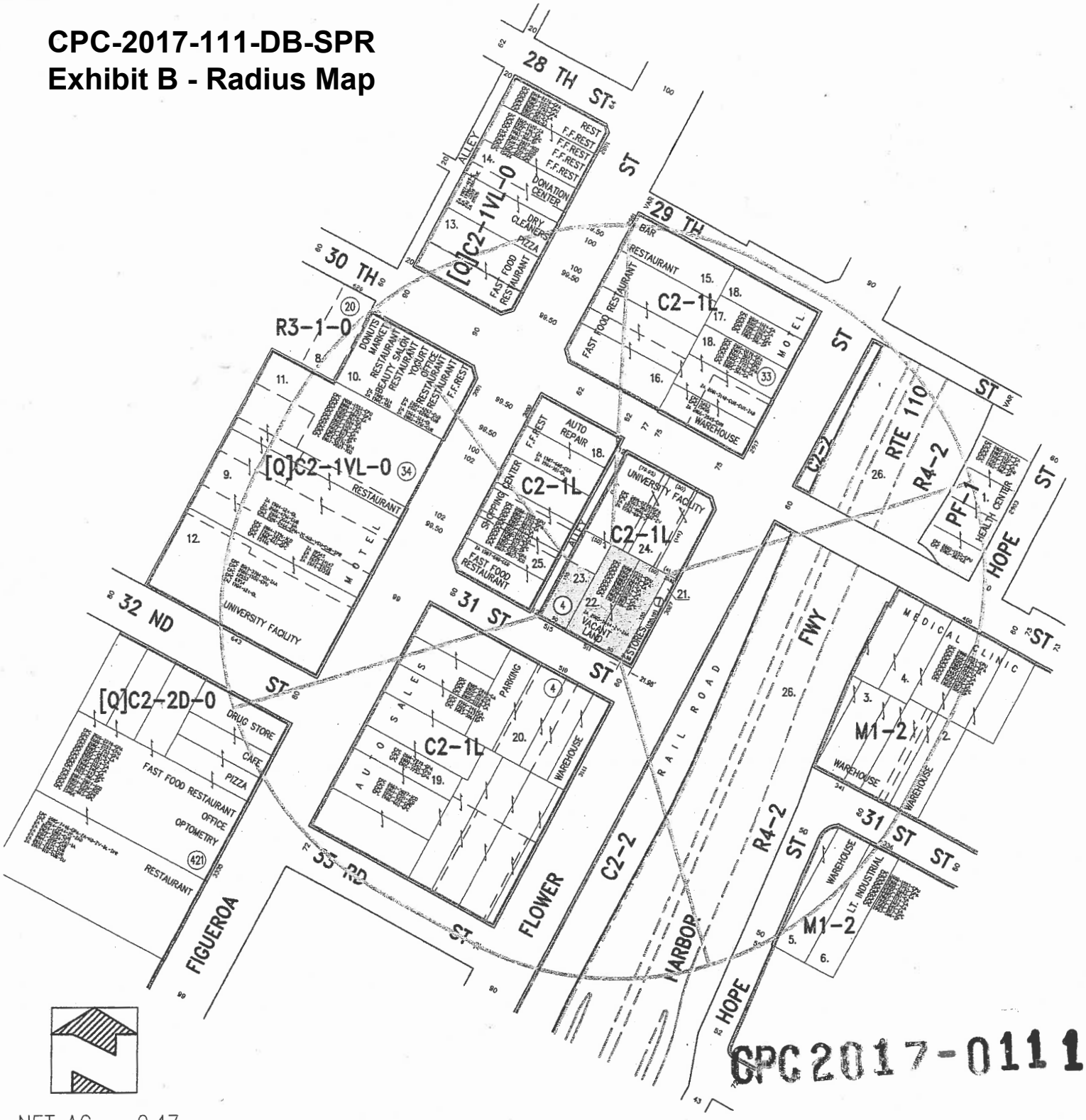
OF ALL SHEETS
LATEST REVISION


SOLA INC
Landscape Architects
380 N. PALM ST. SUITE B T. 562-905-0800 (Main)
BREA, CA. 92821 F. 562-905-0880
la@solainc.com T. 213-383-1788 (Studio)
www.solainc.com

# CPC-2017-111-DB-SPR
# Exhibit B - Vicinity Map



**CPC-2017-111-DB-SPR**
**Exhibit B - Radius Map**




NET AC. = 0.47

LEGAL: LOTS 31, 32 AND SW 102 FT OF LOT 33, STEWART'S NURSERY TRACT, M.R. 19-56, SEE APPLICATION

CMS 16-7089

THOMAS BROS.
PAGE: 674
GRID: C/1

C.D. 9
C.T. 2247.00
P.A. 100

CADFILE: 31ST-ST-RAD

# DENSITY BONUS CONDITIONAL USE SITE PLAN REVIEW

CONTINENTAL MAPPING SERVICE
6315 Van Nuys Boulevard # 208, Van Nuys, CA 91401
Phone: (818) 787-1663 - Fax: (818) 787-1321

CASE NO.:
DATE: JANUARY 5, 2017
DRAWN BY: ANDRES RAAB
D.M. NO.: 120 A 203, 121.5 A 203
SCALE: 1" = 100'
USES: FIELD
CONTACT PERSON: MATTHEW HAYDEN
310-614-2964

COUNTY CLERK'S USE

**CITY OF LOS ANGELES**
OFFICE OF THE CITY CLERK
200 NORTH SPRING STREET, ROOM 360
LOS ANGELES, CALIFORNIA 90012

CITY CLERK'S USE

**CALIFORNIA ENVIRONMENTAL QUALITY ACT**

# NOTICE OF EXEMPTION

(California Environmental Quality Act Section 15062)

Filing of this form is optional. If filed, the form shall be filed with the County Clerk, 12400 E. Imperial Highway, Norwalk, CA 90650, pursuant to Public Resources Code Section 21152 (b). Pursuant to Public Resources Code Section 21167 (d), the filing of this notice starts a 35-day statute of limitations on court challenges to the approval of the project. Failure to file this notice with the County Clerk results in the statute of limitations being extended to 180 days.

| LEAD CITY AGENCY | COUNCIL DISTRICT |
|---|---|
| **City of Los Angeles Department of City Planning** | 9 |

| PROJECT TITLE | LOG REFERENCE |
|---|---|
| Ω CPC-2017-111-DB-SPR | ENV-2017-112-CE |

PROJECT LOCATION
Ω 505 – 517 W. 31st Street

DESCRIPTION OF NATURE, PURPOSE, AND BENEFICIARIES OF PROJECT:
Ω The demolition of an existing residence on the project site for construction of a multi-family residential building. The building would be seven stories above ground and 86 feet in height, and would include 73 residential units, courtyards, a gym, patio, and two recreation rooms, and 78 vehicular parking spaces. Of the 73 dwelling units, six (6) units (11 percent of the project's base density) will be set aside for very-low income households and an additional two (2) units will be set aside for moderate income households

NAME OF PERSON OR AGENCY CARRYING OUT PROJECT, IF OTHER THAN LEAD CITY AGENCY:
Ω 31st Street & Figueroa Holdings, LLC

| CONTACT PERSON | AREA CODE | TELEPHONE NUMBER | EXT. |
|---|---|---|---|
| Ω Matthew Hayden, Hayden Planning | Ω 310 | Ω 614-2964 | |

EXEMPT STATUS: (Check One)

| | | STATE CEQA GUIDELINES | CITY CEQA GUIDELINES |
|---|---|---|---|
| 9 | MINISTERIAL | Sec. 15268 | Art. II, Sec. 2b |
| 9 | DECLARED EMERGENCY | Sec. 15269 | Art. II, Sec. 2a (1) |
| 9 | EMERGENCY PROJECT | Sec. 15269 (b) & (c) | Art. II, Sec. 2a (2) & (3) |
| Y | CATEGORICAL EXEMPTION | Sec. 15300 *et seq.* | Art. III, Sec. 1 |

Class 32 Category _____ (City CEQA Guidelines)

9 OTHER (See Public Resources Code Sec. 21080 (b) and set forth state and City guideline provision.

JUSTIFICATION FOR PROJECT EXEMPTION: In-fill development meeting the conditions described in this section. (a) The project is consistent with the applicable general plan designation and all applicable general plan policies as well as with the applicable zoning designation and regulations. (b) The proposed development occurs within city limits on a project site of no more than five acres substantially surrounded by urban uses. (c) The project site has no value as habitat for endangered, rare or threatened species. (d) Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality. (e) The site can be adequately served by all required utilities and public services.

IF FILED BY APPLICANT, ATTACH CERTIFIED DOCUMENT ISSUED BY THE CITY PLANNING DEPARTMENT STATING THAT THE DEPARTMENT HAS FOUND THE PROJECT TO BE EXEMPT.

| SIGNATURE | TITLE | DATE |
|---|---|---|
| | City Planner | 10-5-17 |

| FEE: | RECEIPT NO. | REC'D. BY | DATE |
|---|---|---|---|
| $2,280 | 0101680382 | | 1-10-17 |

DISTRIBUTION: (1) County Clerk, (2) City Clerk, (3) Agency Record
Rev. 11-1-03 Rev. 1-31-06 Word

IF FILED BY THE APPLICANT:

Ω _____
NAME (PRINTED)

Ω _____
SIGNATURE

Ω _____
DATE

**CPC-2017-111-DB-SPR**
**Exhibit C - ENV-2017-112-CE**

DEPARTMENT OF
CITY PLANNING
-
CITY PLANNING COMMISSION

DAVID H. J. AMBROZ
PRESIDENT

RENEE DAKE WILSON
VICE-PRESIDENT

CAROLINE CHOE
VAHID KHORSAND
JOHN W. MACK
SAMANTHA MILLMAN
MARC MITCHELL
VERONICA PADILLA-CAMPOS
DANA M. PERLMAN

ROCKY WILES
COMMISSION OFFICE MANAGER
(213) 978-1300

# CITY OF LOS ANGELES
CALIFORNIA

ERIC GARCETTI
MAYOR

EXECUTIVE OFFICES
200 N. SPRING STREET, ROOM 525
LOS ANGELES, CA 90012-4801

VINCENT P. BERTONI, AICP
DIRECTOR
(213) 978-1271

KEVIN J. KELLER, AICP
EXECUTIVE OFFICER
(213) 978-1272

LISA M. WEBBER, AICP
DEPUTY DIRECTOR
(213) 978-1274

http://planning.lacity.org

October 5, 2017

Steve Erdman
31st & Figueroa Holdings, LLC (A/O)
10474 W. Santa Monica Boulevard
Los Angeles, CA 90025

Matthew Hayden (R)
Hayden Planning
10008 W. National Blvd, #229
Los Angeles, CA 90034

RE: Case No. CPC-2017-111-DB-SPR
Addresses: 505 – 517 West 31st Street
Community Plan: Southeast Los Angeles
Zone : C2-1L
D. M. : 120A213
C. D. : 9 - Price
CEQA : ENV-2017-112-CE
Legal Description: Lots 31, 32, 33 of Stewart's Nursery Tract

**RE: ENV-2017-112-CE (Categorical Exemption - Class 32)**

**Project Description:**

The project involves the demolition of an existing residence on the project site for construction of a multi-family residential building. The building would be seven stories above ground and 86 feet in height, and would include 73 residential units, courtyards, a gym, patio, and two recreation rooms, and 78 vehicular parking spaces. Of the 73 dwelling units, six (6) units (11 percent of the project's base density) will be set aside for very-low income households and an additional two (2) units will be set aside for moderate income households. The building's proposed unit composition is made up of 28 two-bedroom units, 24 one-bedroom units and 21 studio units.

The subject property is located along the north side of 31st Street between Figueroa Street to the west and Flower Street to the east. The property has a street frontage that totals approximately 150 linear feet. The site is approximately 0.2 miles from the southeast boundary of the University of Southern California campus at Jefferson Boulevard and Figueroa Street. The project site is a generally flat, L-shaped lot that is comprised of four (4) parcels of land totaling 0.47 acres, or 20,607 square feet. Currently, the site is occupied by a four-unit (4-unit) multi-family residence with the addresses 515, 517, and 517 ½ W. 31st Street located on a 0.12-acre lot within the project site. The project site's remaining 0.35-acre, with the addresses 505 W. 31st Street and 511 W. 31st Street, is a vacant dirt lot.

Properties in the surrounding area are zoned C2-1L, C2-2, R4-2, M1-2, PF-1, [Q]C2-1VL-O, and R3-1 and are improved with commercial, auto, retail, food, educational, medical, industrial, residential, and transportation uses.

**Categorical Exemption - Class 32**

The subject project has been issued a Notice of Exemption (Subsection c, Section 2, Article II, City CEQA Guidelines), log reference ENV-2017-112-CE, for a Categorical Exemption, Class 32, City CEQA Guidelines (Sections 15300-15333, State CEQA Guidelines).

The proposed project would not have a significant effect on the environment. A "significant effect on the environment" is defined as "a substantial, or potentially substantial, adverse change in the environment" (CEQA Guidelines, Public Resources Code Section 21608). The proposed project and the potential impacts were analyzed in accordance with the California Environmental Quality Act (CEQA) Guidelines and the City's L.A. CEQA Thresholds Guide. These two documents establish guidelines and the thresholds of significant impact, and provide the data for determining whether or not the impacts of a proposed project reach or exceed those thresholds.

A project qualifies for a Class 32 Categorical Exemption under City CEQA Guidelines and State CEQA Guidelines Section 15322 if it is developed on an infill development project and meets the following criteria:

A. *The project is consistent with the applicable general plan designation and all applicable general plan policies as well as with the applicable zoning designation and regulations.*

According to the Los Angeles Land Use Map for the Southeast Los Angeles Community, the site is designated for Community Commercial land uses, corresponding to the CR, C2, C4, and RAS3 Zones. The site is classified in the C2-1L Zone, does not propose to modify its zone designation, and, thus, is consistent with the planning and zoning of the Community Plan. The site's is located within the Greater Downtown Housing Incentive Area which does not limit density; however, the site is limited to a floor area ratio (FAR) of 1.5:1. By applying for a density bonus, the project has been filed with a by-right density calculation that forgoes the Greater Downtown Housing Incentive for unlimited density and calculates density at 1 dwelling unit per 400 square feet, consistent with typical C2 Zoned properties in the City of Los Angeles. The subject site's C2 zone permits a maximum density of 54 units by right. This is calculated by dividing the sum of the site's lot area, 20,607 square feet, and half of the area of the site's adjoining alley (612 square feet), totaling 21,219 square feet, by 400. The 35% density bonus entitles the project to a total of 73 residential units, six (6) of which will be reserved for very low income households, and an additional two (2) reserved for moderate income households. Due to the project's location within the Greater Downtown Housing Incentive Area, housing development is encouraged and incentivized in the City's zoning code. Pursuant to LAMC Section 12.22-C.3(a), the project is not required to provide yard setbacks.

The project involves the construction, use, and maintenance of a new seven-story apartment complex containing 73 residential units, 78 on-site vehicle parking spaces and 123 bicycle spaces, on a 20,607 square-foot site. The site is located within the South Los Angeles Alcohol Sales Specific Plan but no alcohol sales are proposed. The site is also located on the north side of 31st Street, within 480 feet of the Metro Expo Line USC/Jefferson stop that provides a major transit connection. In conjunction with the set aside, the applicant has requested an on-menu incentive for additional height and an off-menu waiver to allow additional FAR. Approval of the requested

incentive and off-menu waiver would allow for the development of a mixed-use project which is consistent with the following goals, objectives, and policies of the Community Plan:

Goal 1: A safe, secure, and high quality residential environment for all economic, age, and ethnic segments of the community.

Objective 1-1: To provide for the preservation of existing housing and for the development of new housing to meet the diverse economic and physical needs of the existing residents and projected population of the Plan area.

Policy 1-1.2: Protect existing single-family and low density residential neighborhoods from encroachment by higher density residential and other incompatible uses.

Objective 1-2: To locate new housing in a manner which reduces vehicular trips and makes it accessible to services and facilities.

Policy 1-2.1: Locate higher residential densities near commercial centers, light mass transit stations, and major bus routes where public service facilities, utilities, and topography will accommodate this development.

Objective 1-5: To promote and ensure the provision of adequate housing for all persons regardless of income, age, or ethnic background.

The project proposes to remove the existing structure on the site, which involves an existing fourplex residential building. While the project will result in the removal of four existing housing units, the project will provide a modernized, safe, and secure new housing development that will contain units of mixed incomes (Objective 1-5), located near the convenience of mass public transit (Policy 1-2.1). In addition, consistent with the Municipal Code, the approval has been conditioned to require proof that any existing tenants have been paid their due relocation assistance prior to release of any permits. The project is consistent with Policy 1-1.2, which seeks to protect the encroachment of single- and low-density residential neighborhood by higher density, given that the subject site is not located with a residential neighborhood. It meets Objective 1-2, given its proximity to the Metro Expo Line (light rail) less than 500 feet away as well as the bus lines that travel down the Figueroa Street corridor. As proposed, the project would place new, mixed-income housing within proximity to existing services and transit opportunities, and upon a site that is consistent with zoning, its land use designation, as well as goals, objectives, and policies of its applicable community plan.

The Housing Element contains goals and objectives to encourage the development of “an adequate supply of rental and ownership housing” (Objective 1.1), as well as to “expand affordable rental housing for all income groups” (Policy 1.1.2). As proposed, the mixed-use development, which includes affordable dwelling units for very low income as well as moderate income, meets the objectives and policies of

the Housing Element of the General Plan. Additionally, the Housing Element contains the following goals, objectives, and policies:

Goal 2: Safe, Livable, and Sustainable Neighborhoods.

Objective 2.1: Promote safety and health within neighborhoods.

Objective 2.2: Promote sustainable neighborhoods that have mixed-income housing, jobs, amenities, services, and transit.

Objective 2.3: Promote sustainable buildings, which minimize adverse effects on the environment and minimize the use of non-renewable resources.

Policy 2.3.3: Promote and facilitate the reduction of energy consumption in new and existing housing.

The project proposes, and has been conditioned, to install 1,877 square feet of solar panels within four designated areas and to provide a minimum of five (5) percent of installed EV chargers and 20 percent wired for installation of future EV chargers. The installation of EV chargers and wiring for future EV chargers would also be consistent with Policy 5.4 of the Mobility Element, which encourages "the adoption of low and zero emission fuel sources, new mobility technologies, and supporting infrastructure." Additionally, the project would comply with existing Green Building codes, which were adopted to help facilitate the reduction of energy consumption. As the project proposes to construct residential dwelling units in close proximity to the I-110 Freeway, the project has been conditioned to provide air filtration systems and construction of sound proof windows to reduce noise from the street. As such, the project is consistent with Goal 2 of the Housing Element and aforementioned objectives and policies.

As proposed and conditioned herein, the project would be consistent with the General Plan and the current and proposed Southeast Los Angeles Community Plan.

B. *The proposed development occurs within city limits on a project site of no more than five acres substantially surrounded by urban uses.*

The project site is located on a 20,607 (0.47 acre) parcel within a developed urban neighborhood. Properties in the surrounding area are zoned C2-1L, C2-2, R4-2, M1-2, PF-1, [Q]C2-1VL-O, and R3-1 and are improved with commercial, auto, retail, food, educational, medical, industrial, residential, and transportation uses.

The following commercial uses surround the majority of the project site: a two-story, 25-foot tall commercial/retail building to the east; a 20-foot tall fine arts gallery and the Roski School of Art and Design Graduate Studios to the north; and a 13-foot tall fast food restaurant to the west. A two- story residence, a parking lot, and car dealership make up the uses south of the project site across West 31st Street. An alleyway is located immediately west of the project site that connects West 31st Street to West 30th Street. Along the east side of Flower Street, the Metro Expo Line (light rail) runs at grade, Interstate 110 (I-110) runs below grade, and I-110 ramps run above grade.

C. *The project site has no value as habitat for endangered, rare or threatened species.*

The project site is located in a dense urban environment that is fully developed with a wide range of urban uses, structures, and pavement. A two-story, multi-family building and a vacant lot currently occupy the project site. The residence's outdoor area is mostly paved with minor landscaping elements and a single palm tree. The vacant dirt lot contains several mature ornamental trees along its periphery, as well as non-native grasses. A few palm trees are also planted in the sidewalk area in front of the project site along 31st Street. Because the project site is within an urbanized area and is typical of an urban environment, it does not contain native biological habitats or habitats for special status species. Please refer to the project's IS-ND for the full analysis.

D. *Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality.*

Traffic: As discussed in Section 16, *Transportation*, of the IS-ND, potential transportation and traffic impacts were found to be less than significant or have no impact. Please refer to the IS-ND for the full analysis. The LADOT approved traffic study is included as Appendix H of the IS-ND.

Noise: As discussed in Section 12, *Noise*, of the IS-ND, potential noise impacts were found to be less than significant or have not impact. Please refer to the IS-ND for the full analysis.

Air Quality: As discussed in Section 3, *Air Quality,* of the IS-ND, potential air quality impacts were found to be less than significant. Please refer to the IS-ND for the full analysis, as well as the Health Risk Assessment provided as Appendix B of the IS-ND.

Water Quality: As discussed in Section 9, *Hydrology and Water Quality,* of the IS-ND, water quality impacts were found to be less than significant. Please refer to the IS-ND for the full analysis.

E. *The site can be adequately served by all required utilities and public services.*

The project would be located in an existing highly urban area served by existing public utilities and services. A substantial increase in demand for services or utilities would not be anticipated with implementation of the proposed project. The City of Los Angeles provides water, sewer, and solid waste collection services to the existing residential buildings and would continue to provide these services to the proposed project. Other services, including gas and electricity, would also continue to be provided to the proposed project by existing service providers.

As discussed in Section 14, Public Services, and Section 18, Utilities and Service Systems, of the ISND, the proposed project would not require the expansion of public services (fire, police, schools, parks, and libraries) or existing water, wastewater or stormwater drainage facilities; and the City would have sufficient water supplies and landfill capacity for the proposed project. Therefore, the site can be adequately served

by all required utilities and public services. Please refer to the IS-ND for the full analysis.

**Exceptions.** Planning staff evaluated the exceptions to the use of Categorical Exemptions for the proposed ordinance listed in "CEQA Guidelines" Section 15300.2 and determined that none of the exceptions apply to the proposed project:

*A. Location. Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located -- a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.*

The project qualifies for a Class 32 Categorical Exemption. The exemption is not a Class 3, 4, 5, 6, or 11. The requested project will not impact an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.

*B. Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.*

The project involves the construction of one multi-family residential building. The building would be seven stories above ground and 86 feet in height, and would include 73 residential units, courtyards, a gym, patio, and two recreation rooms, and 78 vehicular parking spaces. Of the 73 dwelling units, six (6) units (11 percent of the project's base density) will be set aside for very-low income households and an additional two (2) units will be set aside for moderate income households. The succession of multi-family residential projects developed to the permitted density, floor area, and height, as requested and approved on the subject site, will not result in cumulative impacts. Please refer to the IS-ND for the full analysis.

*C. Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.*

The project proposes the construction of a seven story, approximately 82,428 square-foot building in a full developed urban setting. The project will be required to adhere to any and all building code requirements intended to reduce environmental impacts to less than significant levels. Thus, the project will not result in activity that will have a significant effect on the environment due to unusual circumstances.

*D. Scenic Highway. A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified EIR.*

The project is not located on a designated scenic highway.

*E. Hazardous Waste Sites. A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.*

The project site has not been identified as a hazardous waste site. Hazardous materials are defined as any solid, liquid, or gas that can harm people, other living organisms, property, or the environment. A hazardous material may be radioactive, flammable, explosive, toxic, corrosive, biohazardous, an oxidizer, an asphyxiate, a pathogen, an allergen, or many have other characteristics that render it hazardous in specific circumstances. Issues associated with hazardous materials develop when such materials are improperly stored, transported, used, and/or released into the environment (California Health and Safety Code, Section 25124). Hazards also include physical or natural features that pose a threat of injury, such as wildland fires, exposed pipes, or steep slopes. The following databases compiled pursuant to Government Code Section 65962.5 were checked on March 8, 2017 for known hazardous materials contamination at the project site.

The search of the databases showed there are no Superfund sites, active cleanup sites, or active LUST sites recorded on the project site or within the immediate project vicinity.

Rincon Consultants, Inc. performed a Phase I ESA in general conformance with the scope and limitations of ASTM E 1527-13 for the properties on 505, 511 and 515 West 31st Street, Los Angeles, California. Based on the findings of the Phase I ESA and the results of the Phase II ESA, evidence of recognized environmental conditions in connection with the subject property have not been identified.

*F. Historical Resources. A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.*

Development of the project would involve the demolition of an existing multi-family residential building and construction of a new 73-unit multi-family residential building. The existing building is not historic, there are no nationally or locally designated historic buildings on the project site, and the project is not located in a historic district (NPS 2016 Los Angeles 2016). The nearest historic landmark is the Al Malaikah Temple located 0.3 miles from the project site at 655 W. Jefferson Blvd.

The City's Cultural Heritage Commission designated the Stewart Farmhouse, which was previously located on the subject site, as a Historic Cultural Monument HCM-1028 on February 5, 2013 (Case No. CHC-2012-2953-HCM). The monument was relocated to 120 N. Avenue 63, Los Angeles, California 90042 on August 9, 2016. The historic house relocation was approved under Certificate of Appropriateness Case No. DIR-2016-1528-COA. The house is no longer located at the site, so the project will have no impact to historic resources.

***Conclusion:***

Therefore, based on the facts herein, it can be found that the project meets the qualifications of the Class 32 Categorical Exemption and the Categorical Exemption reflects the Lead Agency's independent judgment and analysis. The records upon which this decision is based are with the Environmental Review Section of the Planning Department in Room 750, 200 North Spring Street.

# 505 – 517 West 31st Street Project

## Initial Study – Negative Declaration

*prepared for*
**31st & Figueroa Holdings, LLC**
10474 Santa Monica Boulevard, Suite 402
Los Angeles, California 90025

*prepared by*
**Rincon Consultants, Inc.**
250 East 1st Street, Suite 301
Los Angeles, California 90012

Rincon Consultants, Inc.
Environmental Scientists Planners Engineers
www.rinconconsultants.com

**August 2017**

# 505 – 517 West 31st Street Project

## Initial Study – Negative Declaration

*prepared for*
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**August 2017**

*This report prepared on 50% recycled paper with 50% post-consumer content.*

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# Initial Study

## 1 Project Title

505 – 517 West 31st Street Project

## 2 Lead Agency Name and Address

City of Los Angeles
200 North Spring Street, Suite 750
Los Angeles, California 90012

## 3 Contact Person and Phone Number

Jenna Monterrosa, City Planner
200 N. Spring St., Room 763
Los Angeles, CA. 90012
(213) 978 1377
jenna.monterrosa@lacity.org

## 4 Project Sponsor's Name and Address

31st & Figueroa Holdings, LLC
10474 Santa Monica Blvd, Suite 402
Los Angeles, CA 90025

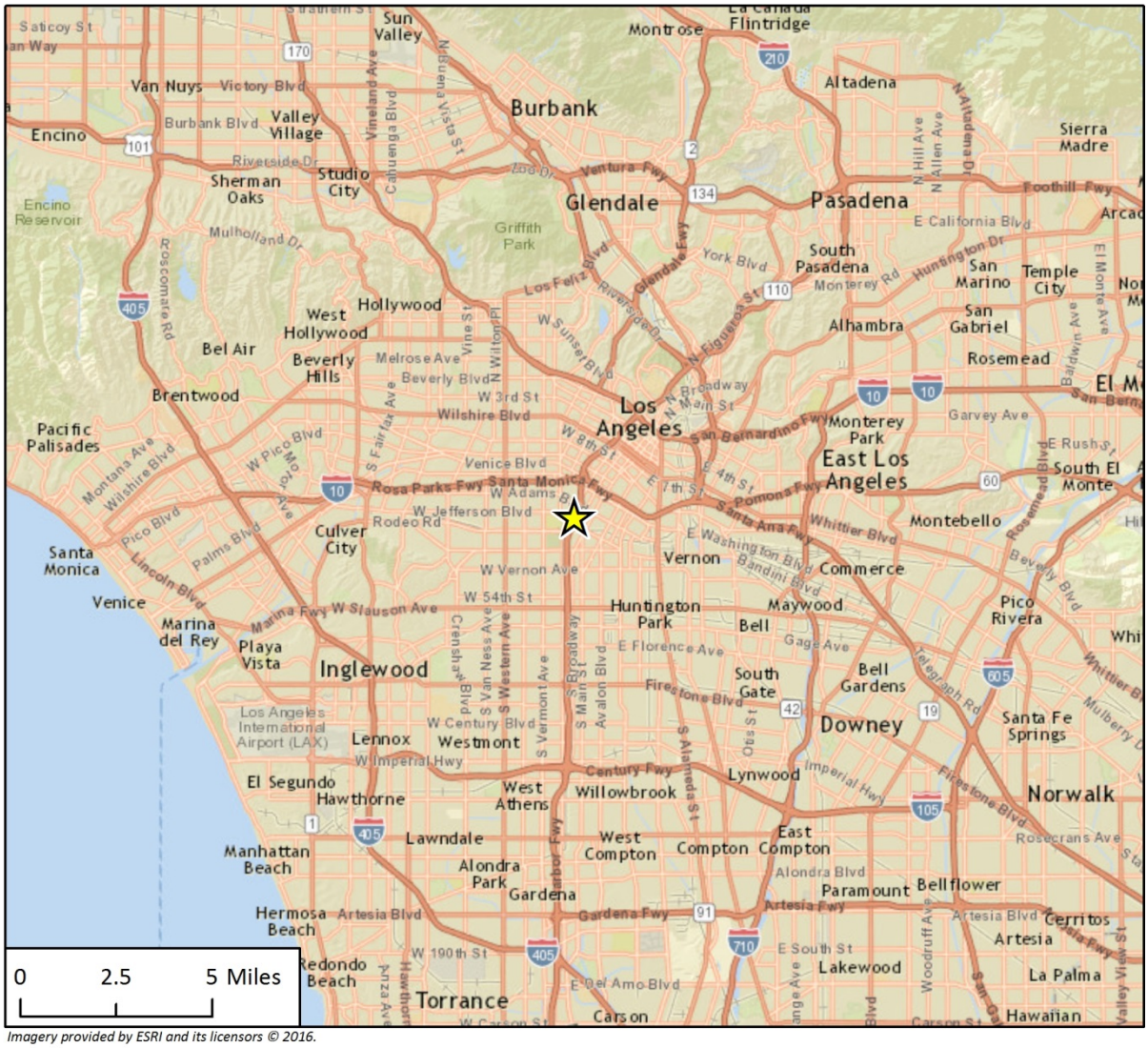
## 5 Project Location

The project site is located at 505-517 West 31st Street in Los Angeles, California 90007, in the southeast area of the City of Los Angeles. The 0.47-acre site consists of three parcels: assessor parcel numbers (APN) 5123-020-009, 5123-020-010, and 5123-020-011. The site is located along the north side of 31st Street between Figueroa Street to the west and Flower Street to the east. The site is approximately 0.2 miles from the southeast boundary of the University of Southern California campus at Jefferson Boulevard and Figueroa Street. Figure 1 shows the project site within the Southern California region and within the City of Los Angeles. Figure 2 shows the existing project site conditions.

## 6 Existing Setting

The project site is a generally flat, L-shaped lot. See Figure 3 for photos of the project site. Currently, an occupied (4-unit) multi-family residence with the addresses 515, 517, and 517 ½ W. 31st Street exists on a 0.12-acre lot within the project site. The remaining 0.35-acre, with the addresses 505 W. 31st Street and 511 W. 31st Street, is a vacant dirt lot.

## Figure 1 Regional Location




*Imagery provided by ESRI and its licensors © 2016.*

Project Location

N

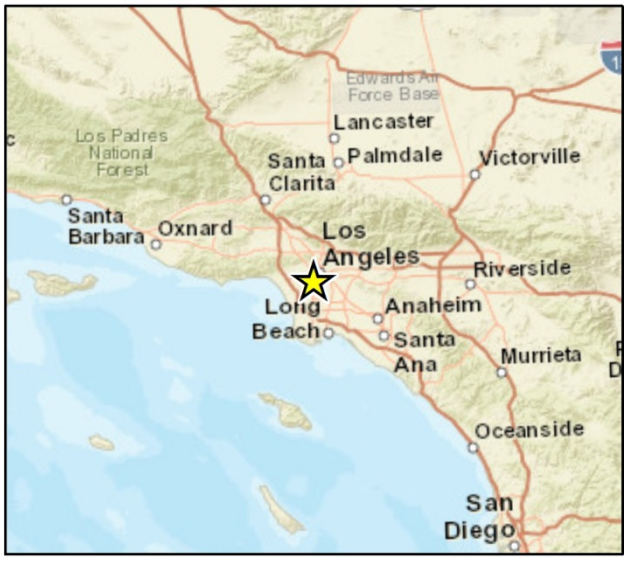


**Figure 2 Project Location**

*Imagery provided by Google and its licensors © 2016.*

## Figure 3 Site Photos

**Photo 1:** Multi-family residence on project site (515, 517, 517 1/2 W. 31st Street).

**Photo 2:** Exterior of vacant lot on project site. View northeast across W 31st Street.

**Photo 3:** Interior of vacant lot on project site. View looking northwest from southern boundary of project site.

**Photo 4:** Interior of vacant lot on project site. View looking north from southern boundary of project site.

**Figure 4 Surrounding Area Photos**

Alley and commercial plaza west of the project site.

Car dealership on southeast corner of W. 31st Street and Figueroa. View southwest across W. 31st Street.

Metro Line and I-110 freeway along S. Flower Street. View northeast across S. Flower Street.

Commercial uses east of the project site. View southeast along W. 31st Street.

Commercial uses east of the project site. View northeast across W. 31st Street.

Residence across from project site on south side of W. 31st Street. View northwest along W. 31st Street.

# 7 Surrounding Land Uses and Setting

The following commercial uses surround the majority of the project site: a two-story, 25-foot tall commercial/retail building to the east; a 20-foot tall fine arts gallery and the Roski School of Art and Design Graduate Studios to the north; and a 13-foot tall fast food restaurant to the west. A two-story residence, a parking lot, and car dealership make up the uses south of the project site across West 31st Street. An alleyway is located immediately west of the project site that connects West 31st Street to West 30th Street. Along the east side of Flower Street, the Metro Expo Line (light rail) runs at grade, Interstate 110 (I-110) runs below grade, and I-110 ramps run above grade. Figures 3 and 4 show existing conditions at the project site and surrounding uses.

# 8 General Plan Designation

The project site designated Community Commercial in the City of Los Angeles' Southeast Los Angeles Community Plan.

# 9 Zoning

The project site is zoned C2-1L, or Commercial Zone in Height District No. -1L. Pursuant to the City of Los Angeles Municipal Code (LAMC) Sections 12.14(A)(4), 12.13.5(A)(1), and 12.11, the C2 zone permits R4 (Multiple Dwelling Zone) residential uses including, but not limited to, apartment houses, multiple-dwelling houses, fraternity or sorority houses, and dormitories. In addition, the following zoning designations apply to the project site:

- North University Park-Exposition Park-West Adams Neighborhood Stabilization Overlay (NSO) District
- Greater Downtown Housing Incentive Area (GDHIA)
- Transit Priority Areas (TPA)
- State Enterprise Zone
- Greater Downtown Housing Incentive Area
- North University Park – Exposition Park – West Adams Neighborhood Stabilization Overlay (NSO) District

# 10 Description of Project

The proposed project would involve demolition of an existing residence on the project site for construction of a multi-family residential building. The building would be seven stories above ground and 86 feet in height, and would include 73 residential units, courtyards, a gym, patio, and two recreation rooms. Table 1 provides a summary of the project components. Figures 5 through 10 show the proposed floor plans. Figures 11 and 12 show elevations of the proposed project and Figure 13 shows the proposed project rendering.

The 16,430-square foot building footprint would occupy approximately 80 percent of the total lot area (20,607 square feet). The proposed seven-story building would have a floor area of 82,428 gross square feet, not including parking and rooftop areas. The multi-family residential building would have a total of 73 residential units, consisting of 28 two-bedroom units, 24 one-bedroom units and 21 studio units. The basement level of the building would include 45 parking spaces and 12 bike parking spaces, while the ground level would include 33 parking spaces and 97 bicycle spaces. Fourteen additional bike parking spaces would be placed on the site. A total of 78 parking

spaces and 123 bicycle spaces would be provided for residents. Seven parking spaces would have electric vehicle (EV) charging stations and two parking spaces would be accessible per ADA Standards for Accessible Design.

### Table 1 Project Summary

| | | |
|---|---|---|
| **Address** | 505-517 W. 31st Street | |
| **Assessor's Parcel Numbers (APNs)** | 5123-020-009; 5123-020-010; 5123-020-011 | |
| **Lot Area** | 20,607 sf (0.47 acres) | |
| **Building Footprint** | 16,480 sf | |
| **Floor Area**[1] | Residential Units | 59,390 sf |
| | Amenities | 3,520 sf |
| | Circulation | 13,483 sf |
| | Balconies | 4,705 sf |
| | Lobby | 1,330 sf |
| | Total | 82,428 sf[1] |
| **Floor Area Ratio (FAR)** | 4 | |
| **Height** | 86 feet<br>7 floors above grade with 1 level of parking below grade | |
| **Units** | Studio | 21 units |
| | 1-bedroom | 24 units |
| | 2-bedroom | 28 units |
| | Total | 73 units |
| **Parking** | Basement Garage | 45 parking spaces |
| | 1st Floor Garage spaces); | 33 parking spaces (including 7 EV stations and 2 accessible |
| | Total | 78 parking spaces; 123 bicycle spaces[3] |
| **Open Space and Amenities** | Private Open Space (34 balconies x 50 sf) | 1,700 sf |
| | Common Open Space (courtyard, seating area) | 2,250 sf |
| | Amenities (gym and recreation rooms) | 4,050 sf |
| | Total | 8,000 sf |

[1] Does not include parking areas
[3] Includes fourteen bicycle parking spaces on site not in garage
sf = square feet

## Amenities and Open Space

The proposed project would provide 8,000 square feet of amenity and open spaces. Building amenities on the second floor would include a 1,550-square foot gym, 1,310-square foot recreation room, a second 1,190 square foot recreation room, and a 1,710 square foot courtyard. The courtyard will be open to the sky above and surrounded by floors three through seven. In addition, the proposed project would include 1,700 square feet of private open space in the form of balconies. The proposed project would include landscape and raised planters on the ground floor on all sides of the building, accept along W. 31st Street.

### Access and Parking

Vehicular access to the subterranean garage would be provided through a down ramp along the alley west of the building. The alley runs parallel to Figueroa Street and Flower Street from W. 31st Street to W. 30th Street. Vehicle access to the ground floor garage would be provided along the building's frontage at W. 31st Street. Pedestrians would access the building through a lobby with an entrance along W. 31st Street.

### Construction

Construction would occur over approximately two years. Excavation for the basement parking garage would involve the export of approximately 7,166 cubic yards of soil material. Assuming 20 cubic yards of soil material per truck, proposed excavation would involve approximately 358 round-trips by haul truck.

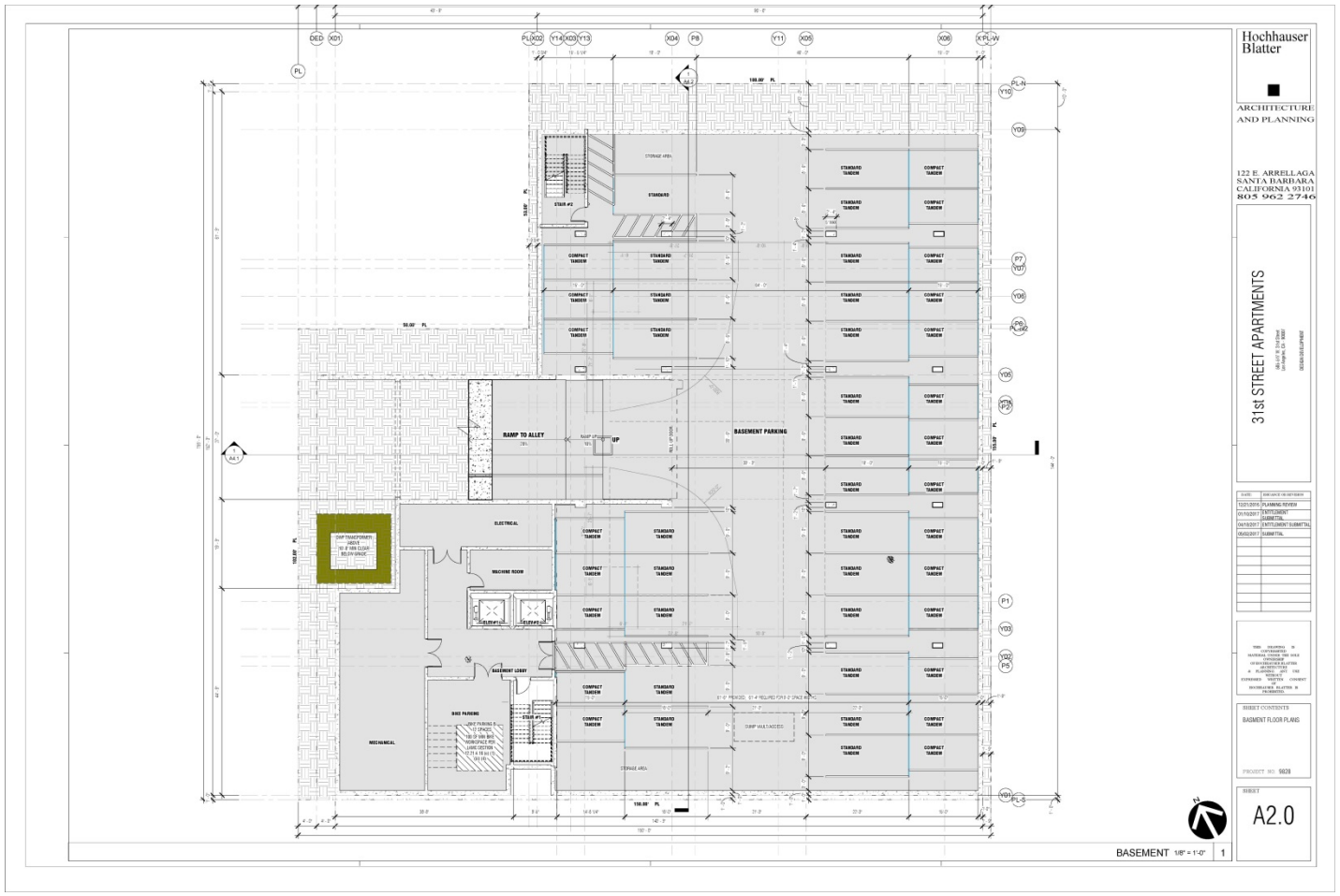
## 11 Required Approvals

The following entitlements are requested for the proposed development:

- **A Site Plan Review** pursuant to LAMC Section 16.05.C.1.e. With site plan review and approval, a residential building in the Greater Downtown Housing Incentive Area (GDHIA) may be excluded from yard setbacks and common or private open space requirements, pursuant to LAMC Section 12.22.C.3 (a) and (d), respectively.
- **Density Bonus**, pursuant to LAMC 12.22.A.25 to enable the construction, use, and maintenance of a new seven-story multi-family residential building containing 73 apartment units, including six units for Very Low Income household and two voluntary units for moderate income households. Density Bonus options/incentives are requested as follows:
  - An on-menu incentive pursuant to LAMC Section 12.22.A.25.f.5 to permit an increase in building height of 11 feet from 75 feet in the C2-1L Zone to a maximum 86 feet for a project with a minimum 5 percent set-aside for Very Low Income units
  - An off-menu incentive pursuant to LAMC Section 12.22.A.25.g.3 to permit an increase in Floor Area Ratio ("FAR") from 1.5:1 to 4:1 in the C2-1L Zone

- **Other Public Agencies Whose Approval is Required**. The City of Los Angeles is the lead agency with responsibility for approving the proposed project. Approval from other public agencies is not required.

**Figure 5 Floor Plan – Basement Level**



## Figure 6 Floor Plan – First Floor

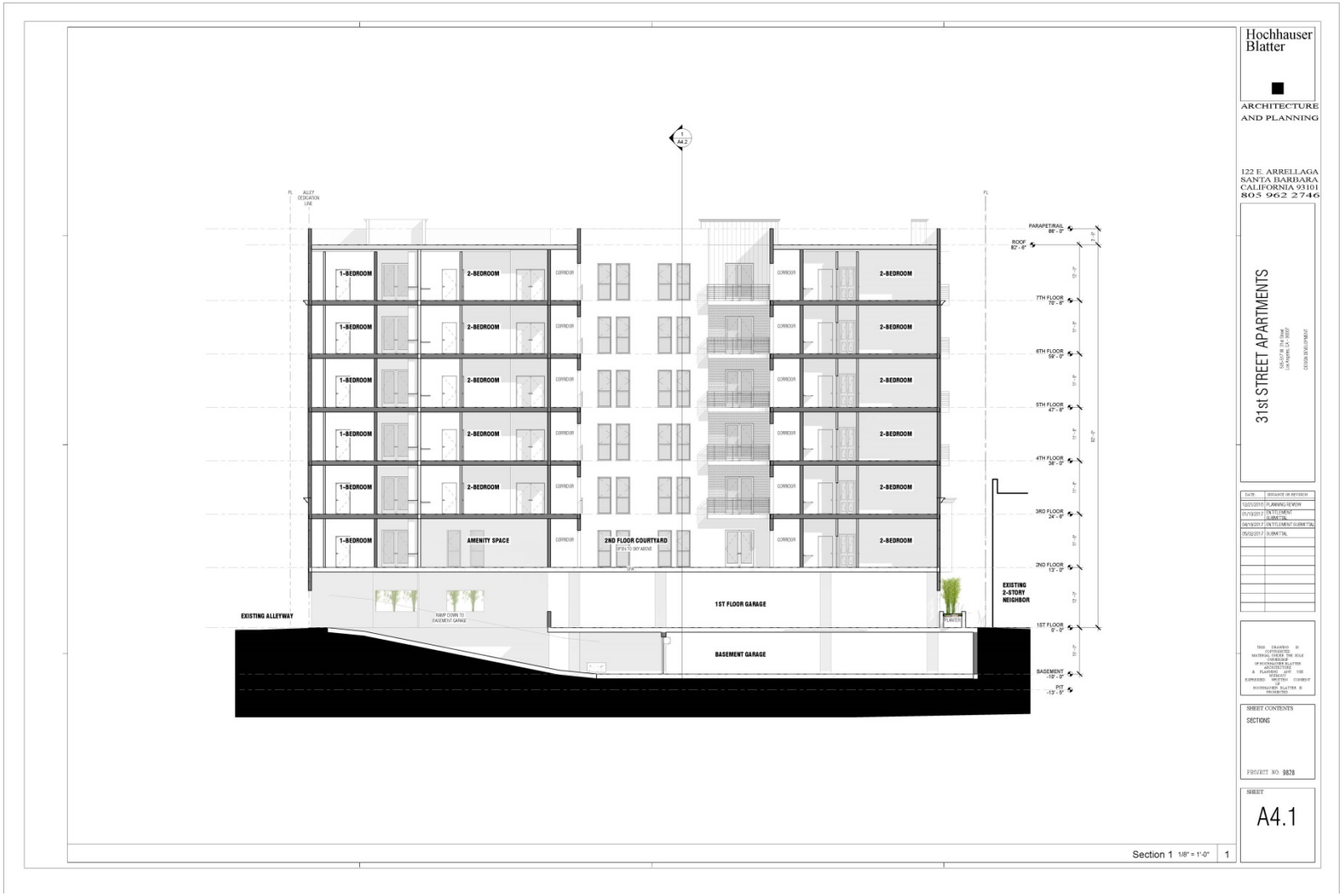
**Figure 7 Floor Plan – Second Floor**

## Figure 8 Floor Plan – Third Floor

**Figure 9 Floor Plan – Floors Four through Six**

## Figure 10 Floor Plan – Seventh Floor

**Figure 9 Section 1**



## Figure 10 Section 2

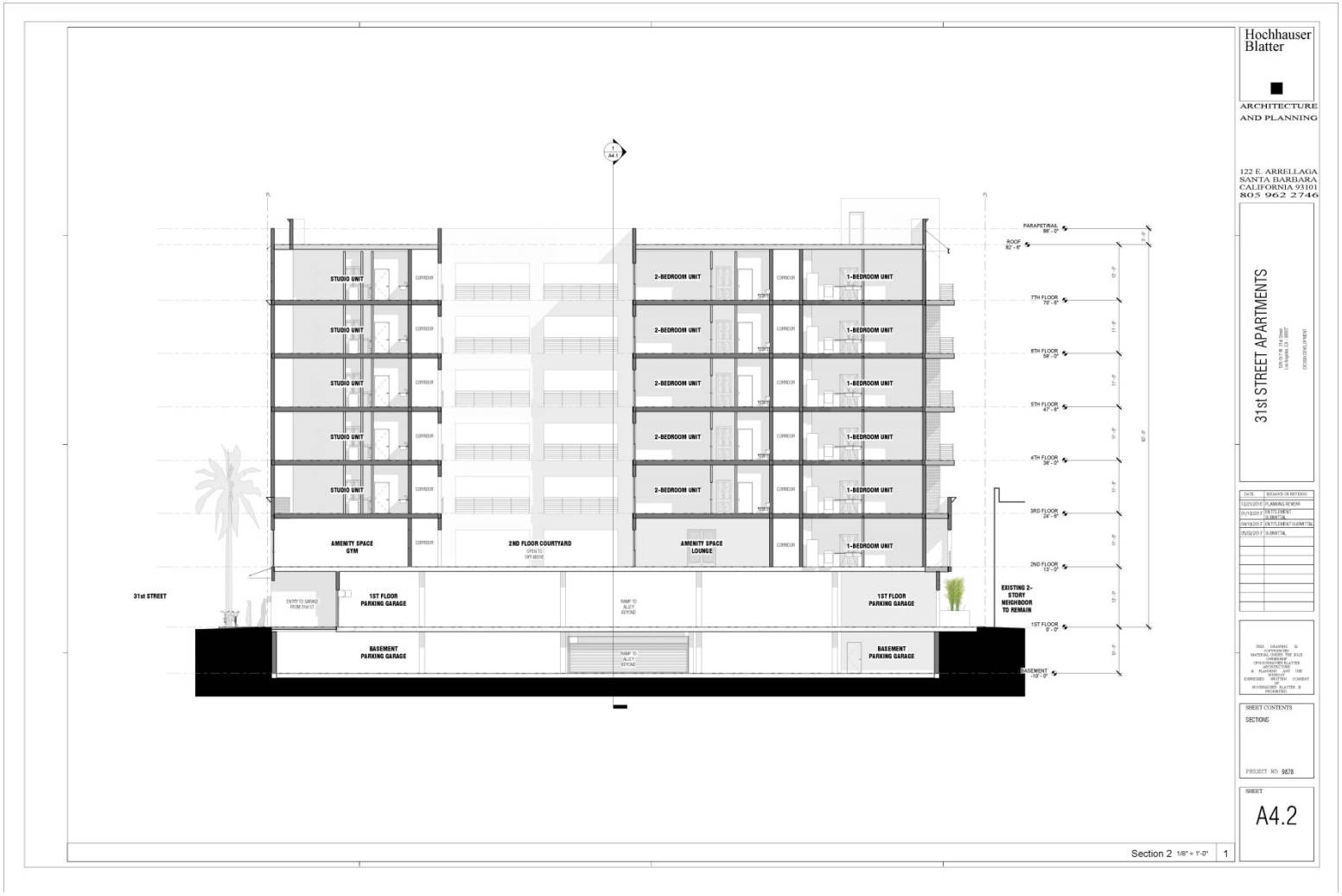


**Figure 11 Rendering**

## Environmental Factors Potentially Affected

This project would potentially affect the environmental factors checked below, involving at least one impact that is "Potentially Significant" or "Potentially Significant Unless Mitigation Incorporated" as indicated by the checklist on the following pages.

| | | | | | |
|---|---|---|---|---|---|
| ☐ | Aesthetics | ☐ | Agriculture and Forest Resources | ☐ | Air Quality |
| ☐ | Biological Resources | ☐ | Cultural Resources | ☐ | Geology and Soils |
| ☐ | Greenhouse Gas Emissions | ☐ | Hazards and Hazardous Materials | ☐ | Hydrology/Water Quality |
| ☐ | Land Use/Planning | ☐ | Mineral Resources | ☐ | Noise |
| ☐ | Population/Housing | ☐ | Public Services | ☐ | Recreation |
| ☐ | Transportation/Traffic | ☐ | Tribal Cultural Resources | ☐ | Utilities/Service Systems |
| ☐ | Mandatory Findings of Significance | | | | |

## Determination

Based on this initial evaluation:

■ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions to the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potential significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

| | |
|---|---|
| Signature | Date |
| Printed Name | Title |

# Environmental Checklist

## 1 Aesthetics

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project have any of the following impacts? | | | | |
| a. Substantial adverse effect on a scenic vista | ☐ | ☐ | ☐ | ■ |
| b. Substantial damage to scenic resources, including but not limited to trees, rock outcroppings, and historic buildings along a state scenic highway | ☐ | ☐ | ☐ | ■ |
| c. Substantially degrade the existing visual character or quality of the site and its surroundings | ☐ | ☐ | ☐ | ■ |
| d. Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area | ☐ | ☐ | ☐ | ■ |

A Transit Priority Area (TPA) is an area within a half mile of a major transit stop. According to the City of Los Angeles Department of City Planning, the project site is located in a TPA based on existing major transit stops in the area. Senate Bill 743 (SB 743), adopted in September 2013, limited the extent to which a project's aesthetic impacts are evaluated under CEQA. In particular, Section 21099 (d)(1) of the Public Resources Code (PRC) states that a project's aesthetic impacts shall not be considered a significant impact on the environment if the project is a residential, mixed-use residential, or employment project, and the project is located in an infill site within a TPA. Since the project is a residential project located in an infill site within a TPA based on existing major transit stops, the project would not have any significant impacts related to aesthetics. Aesthetics issues are discussed below for informational purposes.

*a. Would the project have a substantial adverse effect on a scenic vista?*

A significant impact may occur if the project introduces incompatible visual elements within a field of view containing a scenic vista or substantially blocks views of a scenic vista. Scenic vistas are generally described in two ways: panoramic views (visual access to a large geographic area, for which the field of view can be wide and extend into the distance) and focal views (visual access to a particular object, scene, or feature of interest). Based on the *L.A. CEQA Thresholds Guide*, the determination of whether a project results in a significant impact on a scenic vista shall be made considering the following factors:

- The nature and quality of recognized or valued views (such as natural topography, settings, man-made or natural features of visual interest, and resources such as mountains or ocean);
- Whether a project affects views from a designated scenic highway, corridor, or parkway;

- The extent of obstruction (e.g., total blockage, partial interruption, or minor diminishment); and
- The extent to which a project affects recognized views available from a length of a public roadway, bike path, or trail, as opposed to a single, fixed vantage point.

The Conservation Element of the City of Los Angeles General Plan (General Plan) describes scenic vistas as the panoramic public view access to natural features, including views of the ocean, striking natural terrain, or unique urban or historic features (Los Angeles 2001). None of these elements are visible from the project site, which is located in a fully urbanized area of Los Angeles between a major highway, I-110, and two major roadways of Southeast Los Angeles, Figueroa Street and Flower Street. This site is surrounded by commercial uses, as well as a residence, parking lots, and an auto dealership. Therefore, the proposed project would not result in adverse impacts to scenic vistas. There would be no impact.

**NO IMPACT**

*b. Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings in a state scenic highway?*

Based on the *L.A. CEQA Thresholds Guide*, a significant impact would occur if scenic resources would be damaged and/or removed by development of a project. The proposed project is located within 90 feet of I-110 and a mile of I-10. Neither freeway is designated as a state scenic highway or eligible for designation as a scenic highway in the vicinity of the project site (Caltrans 2016). The City of Los Angeles also does not identify any scenic highways in the vicinity of the project site in the Transportation Element of its General Plan (Los Angeles 1999). Because there are no scenic highways in the vicinity of the project site, the proposed project would not substantially damage scenic resources in a scenic highway. There would be no impact.

**NO IMPACT**

*c. Would the project substantially degrade the existing visual character or quality of the site and its surroundings?*

Based on the L.A. CEQA Thresholds Guide, a significant impact would occur if the proposed project would result in the removal of one or more features that contribute to the valued aesthetic character or impact of the neighborhood, community, or localized area, or if the proposed project were to introduce incompatible visual elements on the project site or visual elements that would be incompatible with the character of the area surrounding the project site. The project site is currently a 0.35-acre undeveloped dirt lot and a 0.12-acre lot occupied by a multi-family residence. The vacant lot on the project site is currently fenced and has graffiti and painted-over graffiti along the fence cover, which is torn in multiple places. The lot appears to be abandoned or at least poorly maintained, as shown in the top right photo in Figure 3. The proposed project would involve demolition of the existing residence and construct a seven-story, 86-foot tall multi-family residential building on the project site. Figure 13 depicts a rendering of the proposed project, which would have a contemporary, utilitarian design and Figure 3 depicts existing conditions at the project site. The construction of a multi-family residential building on the project site would generally improve the existing visual quality of the site. Site plans for the proposed project would be subject to review by the City and would need to comply with Urban Design Guidelines for the Southeast Los Angeles Community Planning Area. In addition, the proposed project would be consistent with zoning requirements, if granted requested entitlements. The following regulatory compliance measures (RCMs) and project design feature (PDF) would further ensure that there would be no impact to the visual character of the project vicinity.

**RCM-1** **Vandalism.** Compliance with provisions of the Los Angeles Building Code. The project shall comply with all applicable building code requirements, including the following:

- Every building, structure, or portion thereof, shall be maintained in a safe and sanitary condition and good repair, and free from, debris, rubbish, garbage, trash, overgrown vegetation or other similar material, pursuant to LAMC Section 91.8104.
- The exterior of all buildings and fences shall be free from graffiti when such graffiti is visible from a street or alley, pursuant to LAMC Section 91.8104.15.

**RCM-2** **Signage.** The project shall comply with the LAMC Section 91.6205, including on-site signage maximums and multiple temporary sign restrictions, as applicable.

**RCM-3** **Landscape Plan.** All landscaped areas shall be maintained in accordance with a landscape plan, including an automatic irrigation plan, prepared by a licensed landscape architect in accordance with LAMC Sections 12.40 and 12.41. The final landscape plan shall be reviewed and approved by the City of Los Angeles Department of City Planning during the building permit process.

**PDF-1** **Landscape Buffer.** Construct and plant landscape buffer(s) or planters of sufficient height to reduce the massing of the building along all street frontages.

Compliance with applicable community design guidelines, zoning requirements, and RCMs ensure that there would be no impact to the visual character.

**NO IMPACT**

*d. Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?*

Based on the L.A. CEQA Thresholds Guide, the determination of whether the proposed project results in a significant nighttime illumination impact shall be made considering the following factors:

- The change in ambient illumination levels as a result of project sources; and
- The extent to which project lighting would spill off the project site and affect adjacent light-sensitive areas.

The proposed project would replace an existing three unit multi-family residence and vacant lot with a seven-story multi-family residential building with 73 studio, one-, and two-bedroom units. The proposed project would have indoor lighting in residences and indoor amenity areas, as well as exterior lighting for security, private balconies, and outdoor common spaces, such as the second floor courtyards and roof patio. The proposed project would also utilize reflective materials, such as glass surfaces in its balcony doors and resident windows, which could create glare during daylight hours. In addition, the proposed project would generate new vehicle traffic to and from the project site that would contribute light from vehicle headlamps and glare from vehicle surfaces and windows.

New sources of light and glare created by the project would not adversely affect day or nighttime views in the area. The project site is in a fully urbanized area of Southeast Los Angeles located approximately 90 feet from a major freeway (I-110) and the Metro Expo Line, which generate high levels of nighttime lighting. In addition, the larger courtyard would be surrounded by units on all sides and the smaller courtyard on three sides, parking would be provided on the first floor and basement levels and would be entirely enclosed, and residences are located on the second through seventh floors. Thus, most of the

light and glare from the proposed project's use would occur above the surrounding uses, which are one to two-stories in height. In addition, uses directly bordering the project site to the east, west and north are all commercial uses that would potentially generate comparable or higher levels nighttime lighting (i.e., fast food restaurant, parking lots, auto dealership, fine arts school) and would not be negatively impacted by residential lighting or vehicle traffic during nighttime hours. To the west, the project site is separated from the adjacent parking lot by an alleyway and to the south, the project site is separated from the residential use by West 31st Street. In addition, the proposed project would comply with California Green Building Standards Code (CALGreen) Section 5.106.8, which sets requirements for outdoor lighting to reduce noise pollution, including allowable backlight, uplight and glare (BUG) ratings on outdoor lights. The following PDF and RCM would further ensure that no impacts to day or nighttime views due to light or glare would occur.

**PDF-2** **Light.** Outdoor lighting will be designed and installed with shielding, such that the light source does not illuminate adjacent residential properties, the public right-of-way, nor the above night skies.

**RCM-4** **Glare.** The exterior of the proposed structure shall be constructed of materials such as, but not limited to, high-performance and/or non-reflective tinted glass (no mirror-like tints or films) and pre-cast concrete or fabricated wall surfaces to minimize glare and reflected heat.

**NO IMPACT**

## Cumulative Impacts

The potential for cumulative impacts occurs when the independent impacts of the proposed project are combined with the impacts of related projects in proximity to the project site, thereby resulting in impacts that are greater than the impacts of the project alone. However, the proposed project would be infill development surrounded by existing commercial, residential, and transit development. Therefore, the proposed project would not create substantial aesthetic impacts related to other development activity in conjunction with that of the project. As discussed above, SB 743 eliminates the aesthetic impacts for project and related projects due to location in a TPA. Therefore, SB 743, in combination with the requirement for all related projects to undergo City review, would reduce cumulative aesthetic impacts to no impact.

**NO IMPACT**

# 2 Agriculture and Forest Resources

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland.

In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land. This includes the Forest and Range Assessment Project and the Forest Legacy Assessment Project, along with the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project have any of the following impacts? | | | | |
| a. Convert Prime Farmland, Unique Farmland, Farmland of Statewide Importance (Farmland), as shown on maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use | ☐ | ☐ | ☐ | ■ |
| b. Conflict with existing zoning for agricultural use or a Williamson Act contract | ☐ | ☐ | ☐ | ■ |
| c. Conflict with existing zoning for or cause rezoning of forest land (as defined in Public Resources Code Section 12220(g)); timberland (as defined by Public Resources Code Section 4526); or timberland zoned Timberland Production (as defined by Government Code Section 51104(g)) | ☐ | ☐ | ☐ | ■ |
| d. Result in the loss of forest land or conversion of forest land to non-forest use | ☐ | ☐ | ☐ | ■ |
| e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use | ☐ | ☐ | ☐ | ■ |

*a. Would the project convert Prime Farmland, Unique Farmland, Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?*

Although not specified in the *L.A. CEQA Thresholds Guide*, a significant impact may occur if the project were to convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-

agricultural use. The project site is developed occupied multi-family residence with the on a 0.12-acre lot and the remainder of the project site is a vacant dirt lot. The California Department of Conservation's 2014 map of Los Angeles County Important Farmland shows that the project site is within an area of "urban and built-up land" and not within an area of "prime farmland" (California DOC 2014). Thus, the project has no impact on farmland.

**NO IMPACT**

*b. Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?*

Although not specified in the *L.A. CEQA Thresholds Guide*, a significant impact may occur if the project were to conflict with existing zoning for agricultural use or a Williamson Act contract. The project site is not under any Williamson Act contract (California DOC 2014). The project would not involve any development that could result in the conversion of farmland to non-agricultural uses, and for these reasons, the project would have no impact with respect to agricultural zoning or other conversion of farmland to non-agricultural use.

**NO IMPACT**

*c. Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?*

Although not specified in the *L.A. CEQA Thresholds Guide*, a significant impact may occur if the project conflicts with existing zoning or rezoning. Neither the project site nor the surrounding parcels are zoned for forest land or timberland, and there is no timberland production at the project site; therefore, the project would have no impact on such resources.

**NO IMPACT**

*d. Would the project result in the loss of forest land or conversion of forest land to non-forest use?*

Although not specified in the *L.A. CEQA Thresholds Guide*, a significant impact may occur if the project resulted in the loss or conversion of forest land or timberland. Neither the project site nor the surrounding parcels are zoned for forest land. The project would have no impact on such resources.

**NO IMPACT**

*e. Would the project involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use?*

Although not specified in *the L.A. CEQA Thresholds Guide*, a significant impact may occur if the project were to involve other changes which could result in conversion of farmland to other non-agricultural uses. As discussed above, the project would not involve any development that could result in the conversion of farmland to non-agricultural uses. The project would have no impact with respect to conversion of farmland to non-agricultural use.

**NO IMPACT**

## Cumulative Impacts

Since the project site or surrounding vicinity are not zoned for agricultural and/or forest uses, there would be no cumulative impacts resulting from the proposed project.

**NO IMPACT**

# 3 Air Quality

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project have any of the following impacts? | | | | |
| a. Conflict with or obstruct implementation of the applicable air quality plan | ☐ | ☐ | ■ | ☐ |
| b. Violate any air quality standard or contribute substantially to an existing or projected air quality violation | ☐ | ☐ | ■ | ☐ |
| c. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors) | ☐ | ☐ | ■ | ☐ |
| d. Expose sensitive receptors to substantial pollutant concentrations | ☐ | ☐ | ■ | ☐ |
| e. Create objectionable odors affecting a substantial number of people | ☐ | ☐ | ■ | ☐ |

The project site is within the South Coast Air Basin (the Basin), which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). As the local air quality management agency, the SCAQMD is required to monitor air pollutant levels to ensure that state and federal air quality standards are met and, if they are not met, to develop strategies to meet the standards. Depending on whether or not air quality standards are met or exceeded, the Basin is classified as being in “attainment” or “nonattainment.” If the concentration of one or more criteria pollutants in a geographic area is found to exceed the regulated or ‘threshold’ level, the area may be classified as a nonattainment area. Areas with concentrations of criteria pollutants that are below the applicable levels are considered in attainment**.** The health effects associated with criteria pollutants are described in Table 2.

### Table 2 Health Effects Associated with Criteria Pollutants

| Pollutant | Adverse Effects |
|---|---|
| Ozone | (1) Short-term exposures: pulmonary function decrements and localized lung edema in humans and animals and risk to public health implied by alterations in pulmonary morphology and host defense in animals; (2) long-term exposures: risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (3) vegetation damage; and (4) property damage. |
| Carbon monoxide (CO) | (1) Aggravation of angina pectoris and other aspects of coronary heart disease; (2) decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (3) impairment of central nervous system functions; and (4) possible increased risk to fetuses. |
| Nitrogen dioxide ($NO_2$) | (1) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (2) risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (3) contribution to atmospheric discoloration. |
| Sulfur dioxide ($SO_2$) | (1) Bronchoconstriction accompanied by symptoms that may include wheezing, shortness of breath, and chest tightness during exercise or physical activity in persons with asthma. |
| Suspended particulate matter ($PM_{10}$) | (1) Excess deaths from short-term and long-term exposures; (2) excess seasonal declines in pulmonary function, especially in children; (3) asthma exacerbation and possibly induction; (4) adverse birth outcomes including low birth weight; (5) increased infant mortality; (6) increased respiratory symptoms in children such as cough and bronchitis; and (7) increased hospitalization for both cardiovascular and respiratory disease (including asthma).[a] |
| Suspended particulate matter ($PM_{2.5}$) | (1) Excess deaths from short- and long-term exposures; (2) excess seasonal declines in pulmonary function, especially in children; (3) asthma exacerbation and possibly induction; (4) adverse birth outcomes, including low birth weight; (5) increased infant mortality; (6) increased respiratory symptoms in children, such as cough and bronchitis; and (7) increased hospitalization for both cardiovascular and respiratory disease, including asthma.[a] |

Source: US EPA 2016.

[a] More detailed discussions on the health effects associated with exposure to suspended particulate matter can be found in the following documents:

1. Office of Environmental Health Hazard Assessment, Particulate Matter Health Effects and Standard Recommendations, www.oehha.ca.gov/air/toxic_contaminants/PM10notice.html#may, May 9, 2002; and
2. USEPA, Air Quality Criteria for Particulate Matter, October 2004.

According to the California Air Resources Board (ARB), the project site is located in a nonattainment area for both the federal and State standards for ozone and $PM_{10}$, and the State standard for $PM_{2.5}$. This nonattainment status is a result of several factors, the primary ones being the naturally adverse meteorological conditions that limit the dispersion and diffusion of pollutants, the limited capacity of the local airshed to eliminate pollutants from the air, and the number, type, and density of emission sources within the Basin. The regional climate within the SCAB is semi-arid and is characterized by warm summers, mild winters, infrequent seasonal rainfall, moderate daytime onshore breezes, and moderate humidity. The air quality within the SCAB is primarily influenced by meteorology and a wide range of emissions sources, such as dense population centers, substantial vehicular traffic, and industry. Due to its nonattainment status, the Basin is required to implement strategies to reduce pollutant levels to recognized acceptable standards. Accordingly, the SCAQMD has adopted an Air Quality Management Plan (AQMP) that provides a strategy for the attainment of state and federal air quality standards.

The SCAQMD recommends the use of quantitative thresholds to determine the significance of temporary construction-related pollutant emissions and project operations. These thresholds are shown in Table 3.

### Table 3 SCAQMD Air Quality Significance Thresholds

| | Mass Daily Thresholds | |
|---|---|---|
| **Pollutant** | **Operation Thresholds (lbs/day)** | **Construction Thresholds (lbs/day)** |
| $NO_X$ | 55 | 100 |
| ROG[1] | 55 | 75 |
| $PM_{10}$ | 150 | 150 |
| $PM_{2.5}$ | 55 | 55 |
| $SO_X$ | 150 | 150 |
| CO | 550 | 550 |
| Lead | 3 | 3 |

[1] Reactive Organic Gases (ROG) are formed during combustion and evaporation of organic solvents. ROG are also referred to as Volatile Organic Compounds (VOC).

Source: SCAQMD, http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf, March 2015.

The SCAQMD has also developed Localized Significance Thresholds (LSTs) in response to concerns regarding the exposure of individuals to criteria pollutants in local communities. LSTs represent the maximum emissions from a project that will not cause or contribute to an air quality exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest sensitive receptor, taking into consideration ambient concentrations in each source receptor area (SRA), project size, and distance to the sensitive receptor. LSTs have been developed for $NO_X$, CO, $PM_{10}$, and $PM_{2.5}$. However, LSTs only apply to emissions within a fixed stationary location, including idling emissions during both project construction and operation. As a result, LSTs are not applied to mobile sources, such as cars on a roadway (SCAQMD 2008).

LSTs have been developed for emissions within areas up to five acres in size, with air pollutant modeling recommended for activity within larger areas. The SCAQMD provides lookup tables for project sites that measure one, two, or five acres. Because the project site encompasses approximately 0.47 acres, LSTs for a 1-acre site were used. The project site is located in Source Receptor Area 1 (SRA-1, Central LA), and the LSTs for construction on a 1-acre site in SRA-1 are shown in Table 4. The closest sensitive receptor is a two-story residential building approximately 90 feet (27 meters) south of the project site across West 31st Street. Therefore, allowable emissions for a 1-acre site in SRA-1 at a distance of 25 meters were used for a conservative analysis.

### Table 4 SCAQMD LSTs for Construction

| Pollutant | Allowable emissions from a 1-acre site in SRA-1 for a receptor 25 meters away (lbs/day) |
|---|---|
| Gradual Conversion of $NO_X$ to $NO_2$ | 74 |
| CO | 680 |
| $PM_{10}$ | 5 |
| $PM_{2.5}$ | 3 |

Source: http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-lst-look-up-tables.pdf?sfvrsn=2

*a. Would the project conflict with or obstruct implementation of the applicable air quality plan?*

Based on the L.A. CEQA Thresholds Guide, a significant air quality impact may occur if the proposed project is not consistent with the applicable AQMP or would in some way represent a substantial hindrance to employing the polices or obtaining the goals of that plan. According to SCAQMD, to be consistent with the AQMP, a project must conform to the local General Plan and must not result in or contribute to an exceedance of the City's projected population, housing, or employment growth forecast. The 2016 AQMP, adopted in March 2017, is a regional and multi-agency effort (SCAQMD, CARB, Southern California Association of Governments [SCAG], and USEPA). State and federal planning requirements include developing control strategies, attainment demonstrations, reasonable further progress, and maintenance plans. The 2016 AQMP incorporates the latest scientific and technical information and planning assumptions, including the latest applicable growth assumptions, Regional Transportation Plan/Sustainable Communities Strategy, and updated emission inventory methodologies for various source categories.

The 2016 AQMP was developed using SCAG's population forecasts. According to the Department of Finance (DOF), the City of Los Angeles has a current population of 4,041,707 with an average household size of 2.86 persons (California DOF 2017). SCAG forecasts that the population of Los Angeles will grow to 4,609,400 by 2040, which is an increase of 578,496, or 14 percent (SCAG 2016). Development of the project would involve the demolition of an existing multi-family residential building and construction of a new 73-unit multi-family residential building. Based on the average number of residents per household in Los Angeles of 2.86 in Los Angeles, the project would add an estimated 209 residents and would bring the total Los Angeles population to 4,041,916. The level of population growth associated with the proposed project falls within the population growth for Los Angeles anticipated in SCAG's long-term population forecasts. Therefore, the project would not conflict with the population forecasts contained in the 2016 AQMP and this impact would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*b. Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?*

Based on the *L.A. CEQA Thresholds Guide*, a project may have a significant impact where:

- Project-related emissions would exceed federal, State, or regional standards or thresholds, or where project-related emissions would substantially contribute to an existing or projected air quality violation.
- A project would add a considerable cumulative contribution to federal or state non-attainment pollutant.

- A project would generate pollutant concentrations to a degree that would significantly affect sensitive receptors

Furthermore, the SCAQMD currently recommends that impacts to sensitive receptors be considered significant when emissions generated at a project site causes localized CO or $NO_2$ levels to exceed state ambient air quality standards at sensitive receptors or where a project causes an increase in local $PM_{10}$ levels of 10.4 µg/$m^3$ during construction and 2.5 g/$m^3$ during operation of the project. A significant impact may also occur where a project would increase concentrations at sensitive receptors located near congested intersections or exceeding national or state ambient air quality standards.

## Construction Emissions

Demolition and construction activities would generate temporary air pollutant emissions. These impacts are associated with fugitive dust ($PM_{10}$ and $PM_{2.5}$) and exhaust emissions from heavy construction vehicles.

Project-related air pollutant emissions from demolition, grading, and construction activities were estimated using the California Emissions Estimator Model (CalEEMod) version 2016.3.1. Construction is expected to take two years and would include demolition of the existing properties, site preparation, grading and excavation, soil export, building construction, architectural coating, and paving. CalEEMod defaults were used for construction equipment, which included concrete/industrial saws, rubber tired dozers, tractors, loaders, backhoes, graders, cranes, forklifts, air compressors, cement and mortar mixers, pavers, and rollers.

A haul route has been identified from the project site to Puente Hills Landfill located at 13130 Crossroads Parkway South, City of Industry, CA 91746. The proposed 17.5-mile haul route is mainly along I-10E and CA-60E. Less than 1.3 miles of the proposed haul route is on surface streets.

For the purposes of modeling, it was assumed that the project would comply with SCAQMD Rule 403 to reduce fugitive dust and Rule 1113 to limit volatile organic compound (VOC) content in architectural coating. Specifically, Rule 403, Rule 1113, and applicable RCMs include the following:

**RCM-5** **Demolition, Grading, and Construction Activities: Compliance with provisions of the SCAQMD District Rule 403.** The project shall comply with all applicable standards of the Southern California Air Quality Management District, including the following provisions of District Rule 403:

- All unpaved demolition and construction areas shall be wetted at least twice daily during excavation and construction, and temporary dust covers shall be used to reduce dust emissions and meet SCAQMD Rule 403. Wetting could reduce fugitive dust by as much as 50 percent.
- The construction area shall be kept sufficiently dampened to control dust caused by grading and hauling, and at all times provide reasonable control of dust caused by wind.
- All clearing, earth moving, or excavation activities shall be discontinued during periods of high winds (i.e., greater than 15 mph), so as to prevent excessive amounts of dust.
- All dirt/soil shall be secured by trimming, watering, or other appropriate means to prevent spillage and dust.
- All dirt/soil materials transported off-site shall be either sufficiently watered or securely covered to prevent excessive amounts of dust.

- General contractors shall maintain and operate construction equipment so as to minimize exhaust emissions.
- Trucks having no current hauling activity shall not idle but be turned off.

**RCM-6** **Engine Idling.** In accordance with Sections 2485 in Title 13 of the California Code of Regulations, the idling of all diesel-fueled commercial vehicles (weighing over 10,000 pounds) during construction shall be limited to five minutes at any location.

**RCM-7** **Emission Standards.** In accordance with Sections 93115 in Title 17 of the California Code of Regulations, operation of any stationary, diesel-fueled, compression-ignition engines shall meet specified fuel and fuel additive requirements and emission standards.

**RCM-8** **Architectural Coatings.** The project shall comply with South Coast Air Quality Management District Rule 1113 limiting the volatile organic compound content of architectural coatings.

**RCM-9** **Best Available Control Technology.** New on-site facility nitrogen oxide emissions shall be minimized through the use of emission control measures (e.g., use of best available control technology for new combustion sources such as boilers and water heaters) as required by South Coast Air Quality Management District Regulation XIII, New Source Review.

Table 5 summarizes the estimated maximum daily construction emissions. Construction emissions would not exceed SCAQMD thresholds or LSTs. Therefore, impacts associated with construction of the project would be less than significant.

### Table 5 Construction Emissions

| | Maximum Daily Emissions (lbs/day) | | | | |
|---|---|---|---|---|---|
| **Construction Phase** | **ROG** | **$NO_x$** | **CO** | **$PM_{10}$** | **$PM_{2.5}$** |
| Maximum Daily Emissions | 3.3 | 21.7 | 13.3 | 1.8 | 1.0 |
| *SCAQMD Thresholds* | *75* | *100* | *550* | *150* | *55* |
| **Threshold Exceeded?** | **No** | **No** | **No** | **No** | **No** |
| Maximum On-Site Emissions[1] | 1.9 | 11.0 | 7.8 | 1.0 | 0.8 |
| *Local Significance Thresholds (LSTs)*[2] | *N/A* | *74* | *680* | *5* | *3* |
| **Threshold Exceeded?** | **N/A** | **No** | **No** | **No** | **No** |

See Appendix A for CalEEMod model output. Winter emissions were used for a conservative estimate.
[1] LSTs only apply to on-site emissions and do not apply to mobile emissions (the majority of operational emissions). Therefore, only on-site construction emissions are compared to LSTs.
[2] LSTs for a 1-acre site in SRA-1 (see Table 3).

## Operational Emissions

Table 6 summarizes estimated emissions associated with operation of the proposed project. The majority of project-related operational emissions would be due to area emissions and vehicle trips to and from the site. The emissions from the proposed project take into consideration operational emissions from the current existing land uses in operation on the project site. Net emissions from the proposed

project are the emissions from the proposed project minus emissions from operation of the existing land uses. As shown in Table 6, emissions would be well below SCAQMD thresholds for all pollutants.

### Table 6 Operational Emissions

| | Estimated Emissions (lbs/day) | | | | | |
|---|---|---|---|---|---|---|
| **Operational Phase** | **ROG** | **$NO_x$** | **CO** | **$SO_X$** | **$PM_{10}$** | **$PM_{2.5}$** |
| **Proposed Project** | | | | | | |
| Area | 1.5 | 0.1 | 6.0 | <0.1 | <0.1 | <0.1 |
| Energy | <0.1 | 0.2 | 0.1 | <0.1 | <0.1 | <0.1 |
| Mobile | 0.8 | 3.8 | 10.7 | <0.1 | 3.0 | 0.8 |
| Total | 2.3 | 4.0 | 16.8 | <0.1 | 3.0 | 0.9 |
| **Existing Land Use** | | | | | | |
| Area | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 |
| Energy | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Mobile | <0.1 | 0.2 | 0.5 | <0.1 | 0.1 | <0.1 |
| Total | 0.1 | 0.2 | 0.8 | <0.1 | 0.1 | <0.1 |
| Net Emissions From Proposed Project[1] | 2.2 | 3.8 | 16.0 | <0.1 | 2.9 | 0.9 |
| *SCAQMD Thresholds* | *55* | *55* | *550* | *150* | *150* | *55* |
| **Threshold Exceeded?** | **No** | **No** | **No** | **No** | **No** | **No** |

See Appendix A for CalEEMod model output. Winter emissions were used for a conservative estimate, except for CO, which was higher in the summer.

[1]Net emissions = Proposed Project – Existing Land Use

According to the SCAQMD, a project's potential contribution to cumulative impacts should be assessed utilizing the same significance criteria as those for project-specific impacts (SCAQMD 2003). This means that a project would result in a cumulatively considerable net increase if an individual project exceeds the SCAQMD's recommended daily regional thresholds for project-specific impacts, or if a project would conflict with or obstruct implementation of the AQMP. As discussed above, the project would not conflict with the AQMP and would not exceed SCAQMD significance thresholds. Per SCAQMD's cumulative air quality impact methodology, the project's air quality impacts would not be cumulatively considerable. Therefore, the project's short-term and long-term impacts to local and regional air quality would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*c. Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)?*

Refer to answer on Section 3.b.

*d. Would the project expose sensitive receptors to substantial pollutant concentrations?*

Certain population groups, such as children, the elderly, and people with health problems, are particularly sensitive to air pollution. Sensitive receptors are defined as land uses that are more likely to be used by these population groups and include health care facilities, retirement homes, school and playground facilities, and residential areas. As discussed above, the sensitive receptors nearest to the project include the two-story residential building approximately 90 feet south of the project site across West 31st Street. However, as indicated in Tables 5 and 6, construction and operational emissions would be below the SCAQMD regional thresholds, as well as LSTs. Furthermore, the project is a residential building and would not introduce new stationary sources of toxic air contaminants (TACs) near sensitive receptors.

Elevated CO levels can occur at or near intersections that experience severe traffic congestion. Given the low background CO levels in the area and the fact that project emissions are well under SCAQMD thresholds, it is not anticipated that project-related traffic would create or contribute to any exceedances of state or federal CO standards. Additionally, as discussed in Section 16, *Transportation*, the project Traffic Impact Study conducted by Gibson Transportation Consulting found that the project would not result in significant impacts at streets or intersections in the project vicinity (this study is also included as Appendix H to this document, Gibson Transportation Consulting 2017). Thus, no quantitative CO analysis is warranted since the project would not result in CO hotspots. Therefore, the project would not generate substantial pollutant concentrations that would impact nearby sensitive receptors.

The California Air Resources Board's (ARB) A*ir Quality and Land Use Handbook: A Community Health Perspective* recommends that local agencies avoid siting new, sensitive land uses within specific distances of potential sources of TACs, such as freeways, high-traffic roads, distribution centers, railroads, and ports (ARB 2005). In particular, ARB recommends that local agencies avoid siting new, sensitive land uses within 500 feet of a freeway. The primary concern is the effect of diesel exhaust particulate, a TAC, on sensitive uses. Near the project site, the primary source of diesel exhaust particulates is truck traffic traveling on the I-110 mainline and associated ramps. As the proposed residential building would be a sensitive use, Rincon Consultants prepared a Health Risk Assessment (HRA) in April 2017 to assess the potential impacts of TACs from the nearby freeway on the project (see Appendix B). As discussed therein, the potential cancer, acute, and chronic health risks for on-site residential units would be below the SCAQMD. As shown in Table 7, the maximum exposed individual receptor on the project site would be exposed to a high-end (95-percentile), 30-year excess cancer risk of approximately four in one million, which does not exceed SCAQMD's recommended cancer risk criteria of ten excess cases of cancer in one million individuals. The excess cancer risk for the average (50-percentile) residency of nine years would be approximately one in one million for an adult and approximately two in one million for a child, both of which are below SCAQMD's cancer risk criteria. Moreover, potential acute and chronic health risks for on-site housing units were also determined to be below the SCAQMD hazard index of 1.0 for either acute or chronic effects. Therefore, the project would not expose proposed sensitive receptors to substantial pollutant concentrations and this impact would be less than significant.

In addition to the determination of the HRA, design features of the building and landscaping would further mitigate exposure to air pollutants. In particular, the primary outdoor common space is an internal courtyard that would be shielded from the I-110, and the majority of the outdoor balconies (approximately 66 %) would not directly face the freeway. Project landscaping around all four sides of the building would also provide an additional buffer between the building and the freeway. The mechanical HVAC systems would also be designed to keep the windows in a closed position on days when the air quality is deemed to be unhealthy. This would provide residents the opportunity to control their interior air quality.

**Table 7 Potential Health Risks**

| Cancer Risk | | | Chronic Risk | | Acute Risk | |
|---|---|---|---|---|---|---|
| **Excess Cancer Risk** | | **Exceed Criterion? (1.0E-05 or 10 in one million)** | **Chronic Hazard Quotient** | **Exceed Criterion? (>1)** | **Acute Hazard Quotient** | **Exceed Criterion? (>1)** |
| 9-Year Resident | | | | | | |
| Adult | 1.23E-06 or 1 in one million | No | 0.008 | No | 0.002 | No |
| Child | 1.81E-06 or 2 in one million | No | 0.008 | No | 0.002 | No |
| 30-Year Resident | 4.09E-06 or 4 in one million | No | 0.008 | No | 0.002 | No |

See Appendix B for the 505 – 517 West 31st Street Project Health Risk Assessment (Rincon Consultants 2017).

**LESS THAN SIGNIFICANT IMPACT**

*e. Would the project create objectionable odors affecting a substantial number of people?*

Although not specified in the *L.A. CEQA Thresholds Guide*, a project-related significant adverse effect could occur if construction or operation of the project would result in generation of odors that would be perceptible in adjacent sensitive areas. Substantial objectionable odors are typically associated with such uses as agriculture, wastewater treatment, industrial facilities, or landfills. The project would involve the demolition of an existing residence and construction of a new 73-unit multi-family residential building. Demolition and construction activities could create temporary odors associated with diesel fuel combustion. These odors could be considered to be objectionable; however, due to the short-term and temporary nature of construction activity, odor impacts would not be significant. Further, residential uses are not identified as a land use typically associated with odor complaints in the SCAQMD CEQA *Air Quality Handbook*. Therefore, the project would not generate objectionable odors affecting a substantial number of people, and this impact would be less than significant.
**LESS THAN SIGNIFICANT IMPACT**

## Cumulative Impacts

According to the SCAQMD, a project's potential contribution to cumulative impacts should be assessed utilizing the same significance criteria as those for project-specific impacts. This means that a project would result in a cumulatively considerable net increase if an individual project exceeds the SCAQMD's recommended daily thresholds for project-specific impacts. As discussed above, by applying SCAQMD's cumulative air quality impact methodology, implementation of the project would not result in an addition of criteria pollutants such that cumulative impacts, in conjunction with related project in the region, would occur. Therefore, cumulative impacts related to air quality would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

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# 4 Biological Resources

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project have any of the following impacts? | | | | |
| a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service | ☐ | ☐ | ☐ | ■ |
| b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service | ☐ | ☐ | ☐ | ■ |
| c. Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means | ☐ | ☐ | ☐ | ■ |
| d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites | ☐ | ☐ | ☐ | ■ |
| e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance | ☐ | ☐ | ■ | ☐ |
| f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? | ☐ | ☐ | ☐ | ■ |

*a. Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as candidate, sensitive, or special status in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?*

Based upon the criteria established in the *L.A. CEQA Thresholds Guide*, a project would normally have a significant impact on biological resources if it could result in:

- The loss of individuals, or the reduction of existing habitat, of a state or federal listed endangered, threatened, rare, protected, candidate, sensitive species, or a Species of Special Concern;
- The loss of individuals or the reduction of existing habitat of a locally designated species or a reduction in a locally designated natural habitat or plant community;
- The alternation of an existing wetland habitat; or
- Interference with habitat such that normal species behaviors are disturbed (e.g., from the introduction of noise, light) to a degree that may diminish the chances for long-term survival of a sensitive species.

The project site is located in a dense urban environment that is fully developed with a wide range of urban uses, structures, and pavement. A two-story, multi-family building and a vacant lot currently occupy the project site. The residence's outdoor area is mostly paved with minor landscaping elements and a single palm tree. The vacant dirt lot contains several mature ornamental trees along its periphery, as well as non-native grasses. A few palm trees are also planted in the sidewalk area in front of the project site along 31st Street. Because the project site is within an urbanized area and is typical of an urban environment, it does not contain native biological habitats or habitats for special status species. However, trees inside or bordering the project site could provide nesting habitat for a variety of bird species that are afforded protection under the federal Migratory Bird Treaty Act (MBTA – 16 United State Code Section 703-711). The proposed project has the potential to impact migratory and other bird species if construction activities occur during the nesting season, which is typically February 15 through September 15. Construction-related disturbances could result in nest abandonment or premature fledging of the young. However, with compliance with the following RCMs, no impact would result.

**NO IMPACT**

The following RCM and compliance with MBTA and California Fish and Game Code (CFGC) requirements would reduce impacts to nesting birds to a less than significant level by ensuring that any active bird nests on or adjacent to the site are not disturbed by project construction.

**RCM-10** **Habitat Modification – Nesting Native Birds, Non-Hillside, or Urban Areas.** The project would result in the removal of vegetation and disturbances to the ground and therefore may result in the removal of vegetation and disturbances to the ground and therefore may result in take of nesting native bird species. Migratory nongame native bird species are protected by international treaty under the Federal Migratory Bird Treaty Act (MBTA) of 1918 (50 C.F.R. Section 10.13). Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests including raptors and other migratory nongame birds (as listed under the Federal MBTA).

- Proposed project activities (including disturbances to native and non-native vegetation, structures, and substrates) should take place outside of the breeding bird season, which generally runs from March 1 – August 31 (as early as February 1 for raptors) to avoid take (including disturbances which would cause abandonment of active nests containing eggs and/or young). Take means to hunt, pursue, catch,

capture, or kill, or attempt to hunt, pursue, catch, capture of kill (Fish and Game Code Section 86).

- If project activities cannot feasibly avoid the breeding bird season, beginning thirty days prior to the disturbance of suitable nesting habitat, the applicant shall arrange for weekly bird surveys to detect any protected native birds in the habitat to be removed and any other such habitat within properties adjacent to the project site, as access to adjacent areas allows. The surveys shall be conducted by a qualified biologist with experience in conducting breeding bird surveys. The surveys shall continue on a weekly basis with the last survey being conducted no more than 3 days prior to the initiation of clearance/construction work.
    - If a protected native bird is found, the applicant shall delay all clearance/construction disturbance activities within 300 feet of suitable nesting habitat for the observed protected bird species until August 31.
- Alternatively, the Qualified Biologist could continue the surveys in order to locate any nests. If an active nest is located, clearing and construction within 300 feet of the nest or as determined by a qualified biological monitor, shall be postponed until the nest is vacated and juveniles have fledged and when there is no evidence of a second attempt at nesting. The buffer zone from the nest shall be established in the field with flagging and stakes. Construction personnel shall be instructed on the sensitivity of the area.
- The applicant shall record the results of the recommended protective measures described above to document compliance with applicable State and Federal laws received into the case file for the associated discretionary action permitting the project.

**NO IMPACT**

*b. Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?*

*c. Would the project have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?*

The project site is located in an urban setting and no habitat of quality to support native riparian plant/wildlife species or other sensitive natural community is present. Federally protected wetlands or waters as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) do not occur on-site. As a result, there would be no impact to riparian habitat, other sensitive natural community, or wetland.

**NO IMPACT**

*d. Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?*

Based upon the criteria established in the L.A. CEQA Thresholds Guide, a project would normally have a significant impact on biological resources if it could result in:

- Interference with wildlife movement/migration corridors that may diminish the chances for long-term survival of a sensitive species.

The project site is within an urbanized area adjacent to two major freeways, I-110 and I-10, and does not facilitate any substantial wildlife movement or provide nursery habitat. Therefore, the proposed project would not impact the movement of any native resident or migratory fish or wildlife species, or affect any nursery sites.

**NO IMPACT**

*e. Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

The City of Los Angeles has a number of local policies and ordinances to protect biological resources. Most target specific habitats or species that do not occur in urban environments. In addition, the City's Protected Tree Ordinance (Ordinance no. 177404), which protects Oak (excluding scrub oak), Southern California Black Walnut, Western Sycamore, and California Bay tree species, does not apply to the project site, which contains only ornamental species such as palms (The Tree Resource 2017). See Appendix C for complete Tree Report for the project site. Nevertheless, through compliance with the following RCM, the proposed project would not conflict with local policies protecting biological resources and there would be less than significant.

**RCM-11 Tree Removal – Protected and Non-Protected Trees**

- Prior to the issuance of any permit, a plot plan shall be prepared indicating the location, size, type, and general condition of all existing trees on the site and within the adjacent public right(s)-of-way.
- All significant (8-inch or greater trunk diameter, or cumulative trunk diameter if multi-trunked, as measured 54 inches above the ground) non-protected trees on the site proposed for removal, if any, shall be replaced at a 1:1 ratio with a minimum 24-inch box tree. Net, new trees, located within the parkway of the adjacent public right(s)-of-way, may be counted toward replacement tree requirements.
- The existing street palm tree located in the path of the proposed new driveway shall be replaced at a 2:1 ratio at a 24 inch box minimum size to the satisfaction of the Urban Forestry Division.
- Removal or planting of any tree in the public right-of-way requires approval of the Board of Public Works. Contact Urban Forestry Division at: 213-847-3077. All trees in the public right-of-way shall be provided per the current standards of the Urban Forestry Division, the Department of Public Works, Bureau of Street Services.

**LESS THAN SIGNIFICANT IMPACT**

*f. Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?*

Although not specified in the L.A. CEQA Thresholds Guide, a significant impact would occur if the project would be inconsistent with mapping or policies in any conservation plans of the types cited. The project site is not within the area of any adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan (USFWS 2016, CDFW 2015). No impact would occur.

**NO IMPACT**

## Cumulative Impacts

As discussed, the project site is located in a dense urban environment that is fully developed with a wide range of urban uses, structures, and pavement. Because the project site is within an urbanized area and is typical of an urban environment, it does not contain native biological habitats or habitats for special status species. In addition, all related projects would comply with applicable regulations such as the Migratory Bird Treaty Act. Therefore, cumulative impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

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# 5 Cultural Resources

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project have any of the following impacts? | | | | |
| a. Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5 | ☐ | ☐ | ☐ | ■ |
| b. Cause a substantial adverse change in the significance of an archaeological resource as defined in §15064.5 | ☐ | ☐ | ■ | ☐ |
| c. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature | ☐ | ☐ | ■ | ☐ |
| d. Disturb any human remains, including those interred outside of formal cemeteries | ☐ | ☐ | ■ | ☐ |

*a. Would the project cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?*

Based upon the criteria established in *L.A. CEQA Thresholds Guide*, a significant impact may occur if a project would disturb historic resources that presently exist within the project site. Pursuant to Section 15064.5 of the CEQA Guidelines, a historical resource is presumed significant if it is listed on the California Register of Historic Resources (California Register) or has been determined to be eligible for listing by the State Historical Resources Commission (SHRC). A historical resource may also be considered significant if the lead agency determines, based on substantial evidence, that the resource meets the criteria for inclusion in the California Register. CEQA also contains the following additional guidelines for defining a historical resource:

- California properties formally determined eligible for, or listed in the National Register of Historic Places (Section 5024.1.d.1);
- Those resources included in a local register of historical resources, as defined in Section 5020.1(k) of the Public Resources Code, or identified as significant in a historical resources survey meeting the requirements of Section 5024.1(g) of the Public Resources Code;
- Those resources that a lead agency determines to be historically significant (generally, if it meets criteria for listing on the California Register), provided the determination is supported by substantial evidence; or
- Those resources a local agency believes are historical for more broadly defined reasons than identified in the preceding criteria.

The *L.A. CEQA Thresholds Guide* further states that a project would normally have a significant impact on historical resources if it would result in a substantial adverse change in the significance of an historical resource. A substantial adverse change in significance occurs if the project involves:

- Demolition of a significant resource;

- Relocation that does not maintain the integrity and significance of a significant resource; Conversion, rehabilitation, or alteration of a significant resource that does not conform to the Secretary of the Interior's Standards for Rehabilitation and Guidelines for
- Rehabilitating Historic Buildings; or
- Construction that reduces the integrity or significance of important resources on the site or in the vicinity.

Development of the project would involve the demolition of an existing multi-family residential building and construction of a new 73-unit multi-family residential building. The existing building is not historic, there are no nationally or locally designated historic buildings on the project site, and the project is not located in a historic district (NPS 2016 Los Angeles 2016). The nearest historic landmark is the Al Malaikah Temple located 0.3 miles from the project site at 655 W. Jefferson Blvd.

The City's Cultural Heritage Commission designated the Stewart Farmhouse, which was previously located on the subject site, as a Historic Cultural Monument HCM-1028 on February 5, 2013 (Case No. CHC-2012-2953-HCM). The monument was relocated to 120 N. Avenue 63, Los Angeles, California 90042 on August 9, 2016. The historic house relocation was approved under Certificate of Appropriateness Case No. DIR-2016-1528-COA. The house is no longer located at the site, so the project will have no impact to historic resources.

**NO IMPACT**

*b. Would the project cause a substantial adverse change in the significance of an archaeological resource as defined in §15064.5?*

*c. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?*

*d. Disturb any human remains, including those interred outside of formal cemeteries?*

The project site is flat, does not contain unique geologic features, and has been previously graded. The likelihood that intact archaeological resources, paleontological resources, or human remains are present is low. Because the site has been developed previously, any surficial paleontological resources that may have been present at one time have likely been disturbed. Therefore, the topmost layers of soil in the project area are not likely to contain substantive fossils. In addition, according to the record search of the *Sacred Lands File* conducted through the Native American Heritage Commission (NAHC), the area of potential effect (APE) did not generate results for the project site. The NAHC *Sacred Lands File* search results letter is included as Appendix I of this document.

The proposed project would require excavation below the surficial soil layers for the construction of an underground parking level. This could uncover potentially previously undetected paleontological resources or human remains. Therefore, the possibility for such resources exists and impacts would be potentially significant. Nevertheless, should resources be discovered, compliance with the below RCMs would result in less than significant impacts. The following RCMs would reduce impacts regarding unanticipated cultural resources and human remains to a less than significant level by providing a process for evaluating and, as necessary, avoiding impacts to any identified resources.

**RCM-12 Cultural Resources (Archeological)**

- If archaeological resources are discovered during excavation, grading, or construction activities, work shall cease in the area of the find until a qualified archaeologist has evaluated the find in accordance with federal, State, and local guidelines, including those set forth in California Public Resources Code Section 21083.2. Personnel of the proposed Modified Project shall not collect or move any archaeological materials and associated materials. Construction activity may

continue unimpeded on other portions of the project site. The found deposits would be treated in accordance with federal, State, and local guidelines, including those set forth in California Public Resources Code Sections 21083.2.

- The services of an archaeologist shall then be secured by contacting the South Central Coastal Information Center (657-278-5395) located at California State University Fullerton, or member of the Society of Professional Archaeologist (SOPA) or a SOPA-qualified archaeologist, who shall assess the discovered material(s) and prepare a survey, study, or report evaluating the impact.
- The archaeologist's survey, study, or report shall contain a recommendation(s), if necessary, for the preservation, conservation, or relocation of the resource.
- The applicant shall comply with the recommendations of the evaluating archaeologist, as contained in the survey, study, or report. Recommendations shall be consistent with California Public Resources Code Section 21083.2.
- Project development activities may resume once copies of the archaeological survey, study, or report are submitted to: SCCIC Department of Anthropology, McCarthy 477, CSU Fullerton, 800 North State College Boulevard, Fullerton, CA 92834.
- Prior to the issuance of any building permit, the applicant shall submit a letter to the case file indicating what, if any, archaeological reports have been submitted, or a statement indicating that no material was discovered.
- A covenant and agreement binding the applicant to this condition shall be recorded prior to issuance of a grading permit.

**RCM-13 Cultural Resources (Paleontological)**

- If any paleontological materials are encountered during the course of project development, the City of Los Angeles Department of Building and Safety shall be notified immediately, and all further development activities shall halt. The services of a paleontologist shall then be secured by contacting the Center for Public Paleontology – USC, UCLA, California State University Los Angeles, California State University Long Beach, or the Los Angeles County Natural History Museum – who shall assess the discovered material(s) and prepare a survey, study, or report evaluating the impact. The paleontologist's survey, study, or report shall contain a recommendation(s), if necessary, for the preservation, conservation, or relocation of the resource, consistent with California Public Resources Code 21083.2.
- The applicant shall comply with the recommendations of the evaluating paleontologist, as contained in the survey, study, or report.

**RCM-14 Cultural Resources (Human Remains)**

- If human remains are encountered unexpectedly during construction, demolition, and/or grading activities, State Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to California Public Resources Code (PRC) Section 5097.98.In addition, the following procedure shall be observed:
- In the event that human remains are discovered during excavation activities, the following procedure shall be observed:
- Stop immediately and contact the County Coroner: 1104 N. Mission Road, Los Angeles, CA 90033. 323-343-0512 (8 a.m. to 5 p.m. Monday through Friday) or 323-343-0714 (After Hours, Saturday, Sunday, and Holidays).
- The coroner has two working days to examine human remains after being notified by the responsible person. If the remains are Native American, the Coroner has 24 hours to notify the Native American Heritage Commission.

- The Native American Heritage Commission will immediately notify the person it believes to be the most likely descendent of the deceased Native American.
- The most likely descendent has 48 hours to make recommendations to the owner, or representative, for the treatment or disposition, with proper dignity, of the human remains and grave goods.
- If the descendent does not make recommendations within 48 hours, the owner shall reinter the remains in an area of the property secure from further disturbance, or;
- If the owner does not accept the descendant's recommendations, the owner or the descendent may request mediation by the Native American Heritage Commission.

Discuss and confer means the meaningful and timely discussion careful consideration of the views of each party.

## Cumulative Impacts

There are no project-level impacts regarding known cultural resources, and potential impacts to unanticipated cultural resources would be less than significant with implementation of RCM-12, RCM-13, and RCM-14. Other projects would also undergo any necessary historic evaluation and comply with relevant regulatory requirements and project recommendations regarding cultural resources. Therefore, cumulative impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

# 6 Geology and Soils

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project have any of the following impacts? | | | | |
| a. Expose people or structures to potentially substantial adverse effects, including the risk of loss, injury, or death involving: | | | | |
| 1. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault | ☐ | ☐ | ■ | ☐ |
| 2. Strong seismic ground shaking | ☐ | ☐ | ■ | ☐ |
| 3. Seismic-related ground failure, including liquefaction | ☐ | ☐ | ■ | ☐ |
| 4. Landslides | ☐ | ☐ | ☐ | ■ |
| b. Result in substantial soil erosion or the loss of topsoil | ☐ | ☐ | ■ | ☐ |
| c. Be located on a geologic unit or soil that is made unstable as a result of the project, and potentially result in on or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse | ☐ | ☐ | ■ | ☐ |
| d. Be located on expansive soil, as defined in Table 1-B of the Uniform Building Code, creating substantial risks to life or property | ☐ | ☐ | ■ | ☐ |
| e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater | ☐ | ☐ | ☐ | ■ |

*a.1. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?*

*a.2. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking?*

*a.3. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction?*

Based upon criteria established in the *L.A. CEQA Thresholds Guide*, a project would normally have a significant geologic hazard impact if it would cause or accelerate geologic hazards that would result in substantial damage to structures or infrastructure, or expose people to substantial risk of injury. For the purpose of these specific issues, a significant impact may occur if:

- A project site is located within a state-designated Alquist-Priolo Zone or other designated fault zone, and appropriate building practices are not employed; or
- A proposed project represents an increased risk to public safety or destruction of property by exposing people, property or infrastructure to seismically induced ground shaking hazards that are greater than the average risk associated with locations in the southern California region.

In addition, based upon the criteria established in the *L.A. CEQA Thresholds Guide*, a project would normally have a significant geologic hazard impact if it would cause or accelerate geologic hazards that would result in substantial damage to structures or infrastructure, or expose people to substantial risk of injury. For the purpose of this specific issue, a significant impact may occur if the project is located in an area identified as having a high risk of liquefaction.

Similar to all of Southern California the City of Los Angeles is underlain by a number of local faults with detectable rupture areas, as well as blind thrust faults, which do not show signs at the Earth's surface. According to the City of Los Angeles General Plan Safety Element, there have been 60 damaging seismic events in the Los Angeles region since 1800 (City of Los Angeles 1996). The South Los Angeles subregion, which encompasses much of the area between I-10 and I-105 and straddles the I-110, including the project site, is underlain by the buried Compton-Los Alamitos thrust fault and possibly a portion of the Elysian park thrust zone in the north (Los Angeles 1995). Little is known about the Compton-Los Alamitos thrust zone. The Newport-Inglewood fault zone is also located near the region to the south. The California Geological Survey's (CGS), "Earthquake Zones of Required Investigation, Hollywood Quadrangle" map indicates that the project site does not lie in an Aliquist-Priolo earthquake fault zone, a liquefaction zone, or an earthquake-induced landslide zone (CGS 2014). Nonetheless, any strong seismic event at a nearby fault could produce considerable levels of ground shaking throughout the City and it is possible that the site is underlain by an undetected blind thrust fault. The proposed project would be constructed in accordance with California Building Code (CBC) standards for earthquake safety, as well as Los Angeles Building Code requirements (Los Angeles Municipal Code [LAMC] Section 91). The Geotechnical Engineering Investigation performed by GeoConcepts, Inc. on January 11, 2017 concluded that the project site is not located within an earthquake-induced landslide hazard zone (see Appendix D). Furthermore, the proposed multi-family residence would replace existing housing and would not impose any additional risk. In addition, the project would comply with the following RCM, thus impacts would therefore be less than significant.

**RCM-15 Liquefaction and Seismicity**

- Prior to the issuance of grading or building permits, the applicant shall submit a geotechnical report, prepared by a registered civil engineer or certified engineering geologist, to the Department of Building and Safety, for review and approval. The project shall comply with the Uniform Building Code Chapter 18, Division 1, Section 1804.5 Liquefaction Potential and Soil Strength Loss. The geotechnical report shall assess potential consequences of any liquefaction and soil strength loss, estimation

of settlement, lateral movement or reduction in foundation soil-bearing capacity, and discuss mitigation measures that may include building design consideration. Building design considerations shall include, but are not limited to: ground stabilization, selection of appropriate foundation type and depths, selection of appropriate structural systems to accommodate anticipated displacements, or any combination of these measures.

- The project shall comply with the conditions contained within the Department of Building and Safety's Geology and Soils Report Approval Letter for the proposed project and as it may be subsequently amended or modified.
- The design and construction of the project shall conform to the California Building Code seismic standards as approved by the Department of Building and Safety.

Compliance with local and state building codes and RCM-15 would reduce potential risks due to seismic events to a less than significant level.

**LESS THAN SIGNIFICANT IMPACT**

*a.4. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving landslides?*

Exhibit C of the City's Safety Element, "Landslide Inventory & Hillside Areas," indicates that the project site lies in a relatively flat area of Los Angeles without hillside areas and without identified potential for landslide (Los Angeles 1994). Because there is no documented risk of landslides on the project site and the area is flat, there would be no impact.

**NO IMPACT**

*b. Would the project result in substantial soil erosion or the loss of topsoil?*

The proposed project would be constructed on a flat site that has been previously graded and is partially developed with an existing residence. Thus, there is low potential for substantial soil erosion or loss of topsoil to occur due to implementation of the proposed project. There is potential for some soil erosion to occur at the site during site preparation and grading activities associated with the project, which would involve soil disturbance and excavation for the construction of the underground parking lot. As discussed in Section 3, Air Quality, dust control measures would be implemented during construction as required by the SCAQMD Rule 403 to minimize fugitive dust emissions. Measures to minimize fugitive dust emissions may include watering exposed surfaces and covering soil stockpiles. These measures are also effective for reducing soil erosion. Grading activities would also be required to adhere to Section 61.02 of the LAMC, which specifies that erosion control measures must be adopted if grading activities will not be completed prior to commencement of the rainy season (October 1 thru April 15). Compliance with SCAQMD and LAMC regulations would result in less than significant impacts erosion and loss of topsoil.

**LESS THAN SIGNIFICANT IMPACT**

*c. Would the project be located on a geologic unit or soil that is unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?*

Based upon the criteria established in the *L.A. CEQA Thresholds Guide*, a project would normally have a significant geologic hazard impact if:

- It would cause or accelerate geologic hazards that would result in substantial damage to structures or infrastructure, or expose people to substantial risk of injury. For the purpose of this

specific issue, a project-related significant adverse effect may occur if the project is located in a hillside area with soil conditions that would suggest a high potential for sliding;

- A project is built in an unstable area without proper site preparation or design features that provide adequate foundations for proposed buildings, thus posing a hazard to life and property; or
- The project is built on expansive soils without proper site preparation or design features that provide adequate foundations for project buildings, thus, posing a hazard to life and property.

As stated above, the project site is in a flat area that has not been identified as at risk to liquefaction, landslides, lateral spreading, or collapse. However, the project site is located just south of the Las Cienegas Oil Field, as identified in the City's Safety Element, Exhibit E, "Oil Field and Drilling Areas" (Los Angeles 1996), and oil extraction can contribute to subsidence. The Los Angeles Citywide General Plan Framework EIR indicates the risk of subsidence/methane to be "not known to be present" to "moderate" in the South Central area of the South Los Angeles sub-region, which encompasses areas to the west of I-110 including the project site(Los Angeles 1995). However, the City of Los Angeles requires monitoring and mitigation measures to prevent subsidence related to oil and gas extraction and mining activities under its Surface Mining District Ordinance (LAMC Section 13.03). The Los Angeles Citywide General Plan Framework EIR also states that there is no known documented evidence of ground subsidence due to groundwater removal. Because there would be no serious risk of geological instability due to landslide, lateral spreading, subsidence, liquefaction, or collapse potential impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*d. Would the project be located on expansive soil, as defined in Table 1-B of the Uniform Building Code, creating substantial risks to life or property?*

As previously stated, the proposed project would replace existing development in an urbanized, flat landscape. No issues with expansive soils are known to be present and the area of the project site is underlain primarily by unconsolidated silt, sand, and gravel alluvium that does not display the clay-rich content typical of expansive soils. Because the project would not be located on expansive soil and would comply with CBC standards, impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*e. Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?*

The entire City is served by an existing sewer system. The project would not involve the use of septic tanks or any other alternative waste water disposal systems. No impact would occur.

**NO IMPACT**

## Cumulative Impacts

Due to their site-specific nature, geology and soils impacts are typically assessed on a project-by-project basis and related project would address site-specific geologic hazards through the implementation of site-specific geotechnical recommendations and/or mitigation measures. In addition, all related project would be subject to all local, state, and federal regulations and standards for seismic safety. Thus, cumulative impacts related to geology and soils would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

# 7 Greenhouse Gas Emissions

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project have any of the following impacts? | | | | |
| a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment | ☐ | ☐ | ■ | ☐ |
| b. Conflict with any applicable plan, policy, or regulation adopted to reduce the emissions of greenhouse gases | ☐ | ☐ | ■ | ☐ |

The accumulation of GHGs in the atmosphere naturally regulates Earth's temperature. However, emissions from human activities, particularly the consumption of fossil fuels for electricity production and transportation, have elevated the concentration of these gases in the atmosphere beyond the level of naturally occurring concentrations. Carbon dioxide ($CO_2$) and methane ($CH_4$) are the GHGs that are emitted in the greatest quantities from human activities. Emissions of $CO_2$ are largely by-products of fossil fuel combustion, whereas $CH_4$ results from off-gassing associated with agricultural practices and landfills.

Scientific modeling predicts that continued GHG emissions at or above current rates would induce more extreme climate changes during the 21st century than were observed during the 20th century. Some of the potential impacts in California of global warming may include loss of snow pack, sea level rise, more extreme heat days per year, more high ozone days, more large forest fires, and more drought years (California Environmental Protection Agency 2010). While these potential impacts identify the possible effects of climate change at a global and potentially statewide level, in general, scientific modeling tools are currently unable to predict what impacts would occur locally.

In response to an increase in man-made GHG concentrations over the past 150 years, California has implemented AB 32, the "California Global Warming Solutions Act of 2006." AB 32 requires achievement by 2020 of a statewide GHG emissions limit equivalent to 1990 emissions (essentially a 25 percent reduction below 2005 emission levels) and the adoption of rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions. On September 8, 2016, the governor signed Senate Bill 32, which requires the State Air Resources Board to ensure that statewide GHG emissions are reduced to 40 percent below the 1990 level by 2030. Based upon the ARB's *California Greenhouse Gas Inventory – 2016 Edition*, California produced about 442 metric tons of carbon dioxide equivalent ($CO_2e$) in 2014.

The City of Los Angeles adopted its climate action plan, Green LA: An Action Plan to Lead the Nation in Fighting Global Warming (Green LA), in May 2007. Green LA set the goal of reducing the City's GHG emissions to 35 percent below 1990 levels by 2030. The action plan outlines several actions in the fields of energy, water, waste, and transportation. These actions include improved transportation centered around mobility for people rather than cars, increasing recycling to 70 percent diversion, meeting all additional water use through reclaimed water, and increasing renewable energy to 35 percent by 2020. The action plan also outlines goals to help residents become "energy misers" by distributing CFL's and increasing rebates for energy efficient appliances and retrofits. Green LA is being implemented through Climate LA, which is the implementation program for the Green LA plan. Climate LA provides detailed

information about each action item discussed in the Green LA framework and provides a timeline for each measure. The proposed project would be subject to the Green LA plan and Climate LA, however, these plans are not qualified GHG reduction plans.

The adopted CEQA Guidelines provide regulatory guidance on the analysis and mitigation of GHG emissions in CEQA documents, while giving lead agencies the discretion to set quantitative or qualitative thresholds for the assessment and mitigation of GHGs and climate change impacts. The 2008 SCAQMD threshold considers emissions of over 10,000 metric tons of $CO_2e$ per year to be significant. However, the SCAQMD's threshold applies only to stationary sources and is expressly intended to apply only when the SCAQMD is the CEQA lead agency.

In the latest guidance provided by the SCAQMD's GHG CEQA Significance Threshold Working Group in September 2010, SCAQMD considered a tiered approach to determine the significance of residential and commercial projects. The draft tiered approach is outlined in the meeting minutes, dated September 29, 2010.

**Tier 1** - If the project is exempt from further environmental analysis under existing statutory or categorical exemptions, there is a presumption of less than significant impacts with respect to climate change. If not, then the Tier 2 threshold should be considered.

**Tier 2** - Consists of determining whether or not the project is consistent with a GHG reduction plan that may be part of a local general plan, for example. The concept embodied in this tier is equivalent to the existing concept of consistency in CEQA Guidelines section 15064(h)(3), 15125(d) or 15152(a). Under this Tier, if the proposed project is consistent with the qualifying local GHG reduction plan, it is not significant for GHG emissions. If there is not an adopted plan, then a Tier 3 approach would be appropriate.

**Tier 3** - Establishes a screening significance threshold level to determine significance. The Working Group has provided a recommendation of 3,000 metric tons (MT) of $CO_2e$ per year for mixed use projects.

**Tier 4** - Establishes a service population threshold to determine significance. The Working Group has provided a recommendation of 4.8 MT of $CO_2e$ per year for land use projects.

Because the City of Los Angeles does not have a qualified GHG reduction plan, the proposed project is evaluated based on the SCAQMD's recommended Tier 3 significance threshold of 3,000 MT of $CO_2e$ per year. The Tier 3 screening level threshold is intended to assess small and average sized projects and is the most appropriate threshold for the proposed project.

This analysis is based on the methodologies recommended by the California Air Pollution Control Officers Association [CAPCOA] (January 2008) *CEQA and Climate Change* white paper. The analysis focuses on $CO_2$, $N_2O$, and $CH_4$ as these are the GHG emissions that onsite development would generate in the largest quantities.

*a. Would the project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?*

Construction activities, energy use, daily operational activities, and mobile sources (traffic) due to the proposed project would generate GHG emissions. California Emissions Estimator Model (CalEEMod) version 2016.3.1 was used to calculate emissions resulting from project construction and long-term operation. Emissions exceeding the 3,000 metric tons of $CO_2e$ threshold would be considered significant.

## Demolition and Construction Emissions

Although construction activity is addressed in this analysis, CAPCOA does not discuss whether any of the suggested threshold approaches adequately address impacts from temporary construction activity. As stated in the CEQA and Climate Change white paper, "more study is needed to make this assessment or to develop separate thresholds for construction activity (CAPCOA 2008)." Nevertheless, the SCAQMD has recommended amortizing construction-related emissions over a 30-year period in conjunction with the proposed project's operational emissions.

Construction activity would occur over a period of approximately two years. Based on CalEEMod results, construction of the project would generate an estimated 593 metric tons of $CO_2e$, as shown in Table 8. Amortized over a 30-year period (the assumed life of the project), construction of the proposed project would generate approximately 20 metric tons of $CO_2e$ per year.

### Table 8 Estimated Construction GHG Emissions

| Year | Project Emissions ($CO_2e$) |
|---|---|
| Total | 593 metric tons |
| Total Amortized over 30 Years | 20 metric tons per year |

See Appendix A for CalEEMod model output.

## Operational Indirect and Stationary Direct Emissions

Operational emissions include area sources (consumer products, landscape maintenance equipment, and painting), energy use (electricity and natural gas), solid waste, electricity to deliver water, and transportation emissions. Operational emissions were estimated using CalEEMod version 2016.3.1. CalEEMod does not calculate $N_2O$ emissions related to mobile sources. $N_2O$ emissions were estimated based on the proposed project's VMT using calculation methods provided by the California Climate Action Registry General Reporting Protocol (January 2009). Operational GHG emissions for the proposed project and the existing land use are shown in Table 9. Net emissions from the proposed project are the total emissions from the proposed project minus total emissions from operation of the existing land uses on the project site, which the project would replace.

## Table 9 Combined Annual Emissions of Greenhouse Gases

| Emission Source | Annual Emissions ($CO_2e$) in metric tons |
|---|---|
| **Proposed Project** | |
| Construction | 20 |
| Operational | |
| *Area* | 1 |
| *Energy* | 193 |
| *Solid Waste* | 7 |
| *Water* | 37 |
| Mobile | |
| *$CO_2$ and $CH_4$* | 600 |
| *$N_2O$* | 28 |
| Total for Proposed Project | 886 |
| **Existing Land Use** | |
| Operational | |
| *Area* | 1 |
| *Energy* | 14 |
| *Solid Waste* | 1 |
| *Water* | 2 |
| *Mobile* | |
| *CO2 and CH4* | 26 |
| *N2O* | 1 |
| Total for Existing Land Use | 45 |
| Net Emissions From Proposed Project[1] | 841 |
| *SCAQMD Thresholds* | *3,000* |
| **Threshold Exceeded?** | **No** |

See Appendix A for CalEEMod model output.

[1] Net emissions = Proposed Project – Existing Land Use

As shown in Table 9, GHG emissions associated with the proposed project would exceed emissions associated with the existing onsite land use. However, the net increase in GHG emissions as a result of the project would be approximately 841 metric tons of $CO_2e$, which does not exceed the 3,000 metric tons threshold. Therefore, impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*b. Would the project conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?*

## Climate Action Plan Consistency

As discussed above, the City of Los Angeles released its climate action plan Green LA in May 2007. The goal of Green LA is to reduce the City's GHG emissions to 35 percent below 1990 levels by 2030, encouraging municipal facilities and operations to reduce emissions in the community. Green LA is being implemented through Climate LA, which provides detailed information about each action item discussed in the Green LA framework. The proposed project would not conflict with Green LA or Climate LA, which is focused on municipal facilities. Table 10 shows the project's consistency with applicable Green LA and Climate LA measures.

### Table 10 Consistency with Applicable Green LA and Climate LA Climate Action Plan Reduction Measures

| Measure | Project Consistency |
|---|---|
| **Transportation and Mobility** | |
| Promote walking and biking to work, within neighborhoods, and to large events and venues. | **Consistent**<br>The project is a multi-family residential building that is within walking and biking distance of USC. The project site is also located within walking distance of retail facilities. The project would provide 81 bike parking spaces. |
| Promote high-density housing close to major transportation arteries. | **Consistent**<br>The project is seven-story multi-family residential building that is near public transportation (bus stop is located on West 31st Street). |
| Encourage the use of alternative fuels. | **Consistent**<br>The project would include seven electric vehicle (EV) charging stalls. In addition, the project would include 81 bike parking spaces, which would encourage the use of alternative transportation. |
| **Water** | |
| Meet all additional demand for water resulting from growth through water conservation and recycling. | **Consistent**<br>According to the 2009 Sustainability Plan by the Los Angeles Department of Water and Power (LADWP), LADWP is in partnership with the Bureau of Sanitation (BOS) to expand the use of recycled water and develop a Recycled Water Master Plan that would expand the recycled water pipeline system and use recycled water for groundwater replenishment. The project would participate in City water conservation programs. |
| Reduce per capita water consumption by 20%. | **Consistent**<br>In accordance with the 2016 California Green Building Standards Code, the project would include a schedule of plumbing fixtures and fixture fittings that would reduce the overall use of potable water within the building by at least 20%. The reduction would be based on the maximum allowable water use per plumbing fixture and fitting as required by the California Building Standards Code. |
| **Waste** | |
| Recycle 70% of trash by 2015. | **Consistent**<br>The City of Los Angeles has achieved a landfill diversion rate of 76.4%. The |

| | |
|---|---|
| | project would be subject to the requirements of the statewide mandatory commercial recycling program, which establishes a statewide goal of diverting at least 75% of solid waste from landfills by 2020. Compliance with existing City and state programs would achieve consistency with this measure. |

## Senate Bill 375 (SB 375)

SB 375, signed in August 2008, enhances the state's ability to reach AB 32 goals by directing ARB to develop regional GHG emission reduction targets to be achieved from vehicles for 2020 and 2035. In addition, SB 375 directs each of the state's 18 major Metropolitan Planning Organizations (MPO) to prepare a "sustainable communities strategy" (SCS) that contains a growth strategy to meet these emission targets for inclusion in the Regional Transportation Plan (RTP). In April 2016, SCAG adopted the *2016-2040 Regional Transportation Plan/Sustainable Communities Strategy*. SCAG's RTP/SCS includes a commitment to reduce emissions from transportation sources by promoting compact and infill development to comply with SB 375.

A goal of the RTP/SCS is to "encourage land use and growth patterns that facilitate transit and active transportation." The proposed project would be infill development and would be walking distance from the multi-family residential building to the university, commercial, and recreational activities, as well as public transportation. Moreover, the proposed project would promote biking and would include 81 biking spaces. Access to facilities in close proximity would reduce the number and length of project-generated vehicle trips. Therefore, the proposed project would be consistent with this goal.

## Assembly Bill 32 (AB 32) and Senate Bill 32 (SB 32)

SB 32 extends the statewide AB 32 reduction goal, requiring the State to further reduce GHGs to 40 percent below 1990 levels by 2030. While the State has adopted the AB 32 Scoping Plan and multiple regulations to achieve the AB 32 year 2020 target, there is no currently adopted State plan to meet post-2020 GHG reduction goals. ARB is currently working to update the Scoping Plan to provide a framework for achieving the 2030 target set forth by SB 32 (ARB 2015). As a result, State reduction strategies cannot be applied to the project to achieve long-term reductions. Achieving these long-term GHG reduction policies will require State and federal plans and policies for achieving post-2020 reduction goals. Placing the entire burden of meeting long-term reduction targets on local government or individual new development projects would be disproportionate and likely ineffective. Given the recent legislative attention and judicial action regarding post-2020 goals and the scientific evidence that additional GHG reductions are needed through the year 2050, the Association of Environmental Professionals' (AEP) Climate Change Committee published a white paper in 2015 recommending that CEQA analyses for most land use development projects may continue to rely on current adopted thresholds for the immediate future (AEP, *Beyond 2020: The Challenges of Greenhouse Gas Reduction Planning by Local Governments in California*, 2015).

As discussed above, Green LA has an adopted GHG emissions reduction target of 35 percent below 1990 levels by 2030. As shown in Table 10, the project would be consistent with Green LA since the net increase in GHG emissions as a result of the project would be approximately 841 metric tons of $CO_2e$, which does not exceed the applicable threshold of 3,000 metric tons of $CO_2e$ per year. However, SB 32 has a more aggressive GHG target at 40 percent below 1990 levels by 2030. Because the previously established SCAQMD threshold of 3,000 MT $CO_2e$ was not developed to meet the targets established by SB 32, it must be adjusted to meet the new, more conservative, emission reduction target. As such, to be consistent with SB 32, the previously established threshold of 3,000 MT $CO_2e$ can be reduced by 40 percent to establish a threshold for this project, consistent with the 40 percent reduction required under SB 32. Therefore, the threshold is 1,800 MT of $CO_2e$ per year for a project to be consistent with SB 32. As shown in Table 9, the proposed project would generate 841 metric tons of $CO_2e$, which does not exceed

the adjusted 1,800 MT of $CO_2e$ per year threshold. Therefore, the project would not hinder achievement of the State's new SB 32 emissions reduction goal. Because GHGs constitute a global impact, rather than a local (or even regional) impact, the project level analysis of GHG emissions is already cumulative in nature. Because the project would not result in significant project level GHG emissions, the project would not result in significant cumulative GHG impacts. The proposed project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. Moreover, the proposed project would be consistent with Green LA, Climate LA, and objectives of the RTP/SCS, AB 32, SB 32, and SB 375. Therefore, impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

## Cumulative Impacts

Based on the above methodology for determining project-related GHG impacts, the analysis of GHG emissions is already cumulative in nature. Because the project would not result in significant GHG emissions, the project would not result in significant cumulative impacts.

**LESS THAN SIGNIFICANT IMPACT**

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# 8 Hazards and Hazardous Materials

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project have any of the following impacts? | | | | |
| a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials | ☐ | ☐ | ■ | ☐ |
| b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment | ☐ | ☐ | ■ | ☐ |
| c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school | ☐ | ☐ | ■ | ☐ |
| d. Be located on a site that is included on a list of hazardous material sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | ☐ | ☐ | ■ | ☐ |
| e. For a project located in an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area | ☐ | ☐ | ☐ | ■ |
| f. For a project near a private airstrip, would it result in a safety hazard for people residing or working in the project area | ☐ | ☐ | ☐ | ■ |
| g. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan | ☐ | ☐ | ☐ | ■ |

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| h. Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands | ☐ | ☐ | ☐ | ■ |

According to the *L.A. CEQA Thresholds Guide*, the determination of significance with respect to hazards and hazardous materials shall be made on a case-by-case basis considering the following factors:

- The regulatory framework for the health hazard;
- The probable frequency and severity of consequences to people or property as a result of a potential accidental release or explosion of a hazardous substance;
- The degree to which project design will reduce the frequency or severity of a potential accidental release or explosion of a hazardous substance;
- The probable frequency and severity of consequences to people from exposure to the health hazard; and
- The degree to which project design would reduce the frequency of exposure or severity of consequences to exposure to the health hazard.

The following discussion regarding potential hazards and hazardous materials is partially based on a Phase I and Phase II Environmental Site Assessment (ESA) for the project site (see Appendix E).

*a. Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?*

*b. Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?*

Based upon the criteria established in the *L.A. CEQA Thresholds Guide*, a project would normally have a significant impact to hazards and hazardous materials if:

- The project involved a risk of accidental explosion or release of hazardous substances (including, but not limited to oil, pesticides, chemicals, or radiation); or
- The project involved the creation of any health hazard or potential health hazard.

The project site is currently occupied by a vacant lot and residential units, which typically do not use, dispose of, or transport hazardous materials. The proposed residential uses would not involve regular handling or storage of large quantities of hazardous materials. Therefore, the proposed project would not create a significant hazard to the public or environment through the routine handling of hazardous materials.

Potentially hazardous materials such as fuels, lubricants, and solvents would be used by heavy machinery during construction of the project. However, the transport, use, and storage of hazardous materials during construction of the project would be conducted in accordance with all applicable state and federal laws, such as the Hazardous Materials Transportation Act, Resource Conservation and Recovery Act, the California Hazardous Material Management Act, and the California Code of Regulations, Title 22.

A Phase I and II Environmental Site Assessment (ESA) was prepared for the proposed project by Rincon Consultants, Inc in November 2016. Appendix E includes the Phase I and II ESA. The Phase I ESA did not reveal any signs of use, storage, or disposal of hazardous materials or petroleum products on the project site. However, because the project site is located within a methane zone, it is considered a potential recognized environmental condition (REC). Under the Phase II analysis, methane sampling was conducted which did not detect evidence of methane on-site. In addition, the Phase II ESA determined that the historical usage of the property or neighboring properties have not impacted soil vapor at the subject property. As such, no recognized environmental conditions were identified on the project site during the Phase II (Rincon 2016). Although the Phase II ESA did not detect evidence of methane on-site, the project's location in a methane zone requires compliance with Methane Mitigation Standards per Section LAMC 91.71. Therefore, the following RCM would reduce potential impacts associated with methane.

**RCM-16 Explosion/Release (Methane Zone)**

- **Methane.** As the project site is within a methane zone, prior to the issuance of a building permit, the site shall be independently analyzed by a qualified engineer, as defined in Ordinance No. 175,790 and Section 91.7102 of the LAMC, hired by the project applicant. The engineer shall investigate and design a methane mitigation system in compliance with the LADBS Methane Mitigation Standards for the appropriate Site Design Level, which will prevent or reduce potential methane gas seepage into the building. The applicant shall implement the engineer's design recommendations subject to DOGGR, LADBS, and LAFD plan review and approval.

The project would not release hazardous materials into the environment as a result of the operational land use. However, in the event of an unanticipated spill or related accident during the construction of the project, the applicant and any contractors would be required to comply with applicable local, state, and federal laws for responding to spills or handling potentially hazardous materials. Adherence to these requirements and the following RCMs would reduce impacts to a less than significant level.

**RCM-17 Explosion/Release (Existing Toxic/Hazardous Construction Materials)**

- **Asbestos.** Prior to the issuance of any permit for the demolition or alteration of the existing structure(s), the applicant shall provide a letter to the Department of Building and Safety from a qualified asbestos abatement consultant indicating that no Asbestos-Containing Materials (ACM) are present in the building. If ACMs are found to be present, it will need to be abated in compliance with the South Coast Air Quality Management District's Rule 1403 as well as all other applicable State and Federal rules and regulations.
- **Lead Paint.** Prior to issuance of any permit for the demolition or alteration of the existing structure(s), a lead-based paint survey shall be performed to the written satisfaction of the Department of Building and Safety. Should lead-based paint material be identified, standard handling and disposal practices shall be implemented pursuant to OSHA regulations.

**LESS THAN SIGNIFICANT IMPACT**

*c. Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school?*

Based upon criteria established in the *L.A. CEQA Thresholds Guide*, a project would normally have a significant impact to hazards and hazardous materials if:

- A project involved a risk of accidental explosion or release of hazardous substances (including, but not limited to, oil, pesticides, chemicals, or radiation); or
- A project involved the creation of any health hazard or potential health hazard

The edge of the USC campus is approximately 1,000 feet (0.2 miles) south of the project site. The next nearest existing schools include County Kids Place Kinder Care located 0.16 miles east of the project site, John Adams Middle School located 0.3 mile to the east, Rosie the Riveter Charter High School located 0.45 miles to the south, FD Lanterman High School located 0.45 miles north of the project site, and Dolores Huerta Elementary School located approximately 0.54 miles east of the project site.

Given that the existing and proposed land use would remain residential, and the project site does not contain any hazardous materials there would not be a risk of handling or emitting hazardous waste near schools (Rincon 2016). Additionally, potentially hazardous materials utilized during construction, such as oil or fuel utilized by heavy-duty construction equipment, would be required to comply with local, state, and federal policies for handling such materials and equipment properly. As discussed in Section 3, *Air Quality*, emissions generated by construction of the proposed project would be below SCAQMD LSTs and, therefore, would not significantly impact the local community, including any schools in the project vicinity. Given that construction activities would be temporary and below SCAQMD threshold levels, impacts associated with potential hazardous emissions during construction would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*d. Would the project be located on a site included on a list of hazardous material sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?*

The following databases compiled pursuant to Government Code Section 65962.5 were checked (December 27, 2016) for known hazardous materials contamination at the project site:

- U.S. EPA
  - Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) / Superfund Enterprise Management System (SEMS) / Envirofacts database search
- State Water Resources Control Board,
  - Geotracker search for leaking underground storage tanks (LUST) and other Cleanup Sites
- Department of Toxic Substances Control
  - Envirostor search for hazardous facilities or known contamination sites
  - Cortese list of Hazardous Waste and Substances Sites
  - Cleanup Site and Hazardous Waste Facilities Database

The project site is not located on or directly adjacent to any known hazardous or contaminated sites. The EPA is retiring the CERCLIS database and is replacing it with SEMS. The SEMS database search did not produce any results associated with the project site, indicating that the site is free of known hazards and contaminants. A search on the Envirostor data base identified a single cleanup site for Mobile #18-BV7 (gas station) for potential contamination from gasoline in the soil. The case closed September 19, 2006, and the site is located 0.27 miles north of the project site. According to Geotracker, there are two permitted underground storage tanks within 1,000 feet of the project site. The first is Downtown LA Motors (Facility ID: 25147) and the second is Federal Express (Facility ID 25148) and both are permitted by the City of Los Angeles (Geotracker 2016). There have not been any notices of violation issued for

these facilities, and no leaks have been reported for either facility. The EPA's technical regulations for USTs require owners and operators to properly install and report suspect releases, closures, leaks, and maintain records or operation and maintenance (US EPA 2016). In addition, there is no adjacent or up-gradient known or suspected contaminated soil or groundwater located within 100 feet of the project site, according to the Phase I and II ESA Report (see Appendix E). Given the results of the database searches and ESA Report, impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?*

*f. For a project near a private airstrip, would it result in a safety hazard for people residing or working in the project area?*

The project site is located approximately 7.5 miles northeast of Hawthorne Municipal Airport, which is the nearest public airport to the project. The site is not located within an airport land use plan or near a private airstrip.

**NO IMPACT**

*g. Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?*

According to the City's General Plan Safety Element, a designated disaster route in the City functions as primary thoroughfare for movement of emergency response traffic and access to critical facilities. Exhibit H of the Safety Element shows the City's designated disaster routes, which also provide a plan for interjurisdictional road reconstruction and rebuilding following a major disaster. Immediate debris clearance for short-term emergency operations would be emphasized along these routes (Los Angeles 1996). Based upon the criteria established in the *L.A. CEQA Thresholds Guide*, a significant impact would normally occur if:

- A project involved possible interference with an emergency response plan or emergency evacuation plan

Based on Exhibit H of the Safety Element, the nearest disaster route is Figueroa Street approximately 250 feet to the west. However, no roads would be permanently closed as a result of the construction or operation of the project, and the project would not involve the development of structures that could potentially impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. The design of any new access points would be reviewed and approved by the Los Angeles Fire Department to ensure that emergency access meets City standards. Therefore, there would be no impact.

**NO IMPACT**

*h. Would the project expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?*

The City of Los Angeles is an urbanized community and there are no wild lands in the project vicinity. In addition, the proposed project is not located in a wildfire hazard area as identified in the City of Los Angeles General Plan Safety Element, Exhibit D, "Selected Wildfire Hazard Areas in the City of Los Angeles." The project site is not located in a fire buffer zone, a mountain fire district, or an area of known shallow methane accumulation (City of Los Angeles Safety Element 1996). The Angeles National Forest San Gabriel Mountains are located approximately 15 miles north of the project site. Construction of the proposed project would involve demolishing and replacing existing residential units with the proposed seven story multi-family residential building, consistent with the existing land use and General Plan Designation. There would be no risk of exposing people or structures to a significant risk of loss, injury or death involving wildland fires; therefore there would be no impact.

**NO IMPACT**

## Cumulative Impacts

Due to the site-specific nature, impacts related to hazards and hazardous materials are typically assessed on a project-by-project basis. As with the project, related projects would address site-specific hazards through the implementation of site-specific recommendations and/or mitigation measures. In addition, all related development located within the vicinity of the project site would be subject to local, regional, state, and federal regulations pertaining to hazards and hazardous materials. Therefore, development of the project and related projects would not result in cumulatively significant impacts.

**LESS THAN SIGNIFICANT IMPACT**

# 9 Hydrology and Water Quality

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project have any of the following impacts? | | | | |
| a. Violate any water quality standards or waste discharge requirements | ☐ | ☐ | ■ | ☐ |
| b. Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering or the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted) | ☐ | ☐ | ■ | ☐ |
| c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on- or off-site? | ☐ | ☐ | ■ | ☐ |
| d. Substantially alter the existing drainage pattern of the site or area, including the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or offsite | ☐ | ☐ | ■ | ☐ |
| e. Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff | ☐ | ☐ | ■ | ☐ |
| f. Otherwise substantially degrade water quality | ☐ | ☐ | ■ | ☐ |
| g. Place housing in a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary, Flood Insurance Rate Map, or other flood hazard delineation map | ☐ | ☐ | ☐ | ■ |

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| h. Place structures in a 100-year flood hazard area that would impede or redirect flood flows | ☐ | ☐ | ☐ | ■ |
| i. Expose people or structures to a significant risk of loss, injury, or death involving flooding, including that occurring as a result of the failure of a levee or dam | ☐ | ☐ | ■ | ☐ |
| j. Result in inundation by seiche, tsunami, or mudflow | ☐ | ☐ | ☐ | ■ |

*a. Would the project violate any water quality standards or waste discharge requirements?*

*e. Would the project create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?*

*f. Would the project otherwise substantially degrade water quality?*

Temporary site preparation, grading, and paving activities associated with the project may result in soil erosion that could degrade water quality. However, proposed demolition and construction activities would be required to comply with LAMC Section 91.106.4.1.14, which requires grading or building permit applicants to incorporate into the plan documents best management practices (BMP) necessary to control stormwater pollution from sediments, erosion, and construction materials leaving the construction site. These BMPs must be in accordance with provisions in the "Development Best Management Practices Handbook, Part A Construction Activities" issued by the Department of Public Works. In addition, the proposed project would need to comply with LAMC Article 4.4, "Stormwater and Urban Runoff Pollution Control," which includes regulations to prohibit discharge of pollutants into storm drains and receiving waters, as well as stormwater pollution control measures for development planning and construction activities (Section 64.72). Section 64.72 includes Low Impact Development (LID) requirements that would apply to the construction and operation of the proposed project, such as preparation of a LID plan to achieve full capture and treatment of storm water runoff onsite for a design storm event or 24-hour runoff event, and minimization of impacts to natural drainage systems. Compliance with these requirements and the following RCMs would reduce potential impacts to stormwater drainage systems and water quality to a less than significant level.

**RCM-18 Stormwater Pollution: Demolition, Grading, and Construction Activities**

- Leaks, drips, and spills shall be cleaned up immediately to prevent contaminated soil on paved surfaces that can be washed away into the storm drains.
- All vehicle/equipment maintenance, repair, and washing shall be conducted away from storm drains. All major repairs shall be conducted off-site. Drip pans or drop clothes shall be used to catch drips and spills.
- Pavement shall not be hosed down at material spills. Dry cleanup methods shall be used whenever possible. Dumpsters shall be covered and maintained. Uncovered dumpsters shall be placed under a roof or be covered with tarps or plastic sheeting.
- Standard Urban Stormwater Mitigation Plan – Hillside Residential and all 10-or-more unit Subdivisions and Multi-Family Dwellings.

- Environmental impacts may result from erosion carrying sediments and/or the release of toxins into the storm water drainage channels. However, the potential impacts will be mitigated to a less than significant level by incorporating storm water pollution control measures. Ordinance No. 172,176 and Ordinance No. 173,494 specify Stormwater and Urban Runoff Pollution Control which requires the application of Best Management Practices (BMPs). Chapter IX, Division 70 of the Los Angeles Municipal Code addresses grading, excavations, and fills. Applicants must meet the requirements of the Standard Urban Stormwater Mitigation Plan (SUSMP) approved by Los Angeles Regional Water Quality Control Board.
- Project applicants are required to implement stormwater BMPs to treat and infiltrate the runoff from a storm event producing ¾ inch of rainfall in a 24 hour period. The design of structural BMPs shall be in accordance with the Development Best Management Practices Handbook Part B Planning Activities. A signed certificate from a California licensed civil engineer or licensed architect that the proposed BMPs meet this numerical threshold standard is required.
- Post development peak stormwater runoff discharge rates shall not exceed the estimated pre-development rate for developments where the increase peak stormwater discharge rate will result in increased potential for downstream erosion.
- Concrete or cluster development on portions of a site while leaving the remaining land in a natural undisturbed condition.
- Maximize trees and other vegetation at each site by planting additional vegetation, clustering tree areas, and promoting the use of native and/or drought tolerant plants.
- Promote natural vegetation by using parking lot islands and other landscaped areas.
- Any connection to the sanitary sewer must have authorization from the Bureau of Sanitation.
- Incorporate appropriate erosion control and drainage devices, such as interceptor terraces, berms, vee-channels, and inlet and outlet structures, as specified by Section 91.7013 of the Building Code. Protect outlets of culverts, conduits or channels from erosion by discharge velocities by installing a rock outlet protection. Rock outlet protection is a physical devise composed of rock, grouted riprap, or concrete rubble placed at the outlet of a pipe. Install sediment traps below the pipe-outlet. Inspect, repair, and maintain the outlet protection after each significant rain.
- All storm drain inlets and catch basins within the project area must be stenciled with prohibitive language (such as NO DUMPING – DRAINS TO OCEAN) and/or graphical icons to discourage illegal dumping.
- Signs and prohibitive language and/or graphical icons, which prohibit illegal dumping, must be posted at public access points along channels and creeks within the project area.
- Legibility of stencils and signs must be maintained.
- Materials with the potential to contaminate stormwater must be: (1) placed in an enclosure such as, but not limited to, a cabinet, shed, or similar structure that prevents contact with runoff spillage to the storm water conveyance system; or (2) protected by secondary containment structures such as berms, dikes, or curbs.
- The storage area must be paved and sufficiently impervious to contain leaks and spills.
- The storage area must have a roof or awning to minimize collection of storm water within the secondary containment area.
- The owner(s) of the property will prepare and execute a covenant and agreement (Planning Department General form CP-6770) satisfactory to the Planning

Department binding the owners to post construction maintenance on the structural BMPs in accordance with the Standard Urban Storm Water Mitigation Plan and or per manufacturer's instructions.

**RCM-19** **National Pollutant Discharge Elimination System General Permit.** Prior to issuance of a grading permit, the Applicant shall obtain coverage under the State Water Resources Control Board National Pollutant Discharge Elimination System General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ, National Pollutant Discharge Elimination System No. CAS000002) (Construction General Permit) for Phase 1 of the proposed Modified Project. The Applicant shall provide the Waste Discharge Identification Number to the City of Los Angeles to demonstrate proof of coverage under the Construction General Permit. A Storm Water Pollution Prevention Plan shall be prepared and implemented for the proposed Modified Project in compliance with the requirements of the Construction General Permit. The Storm Water Pollution Prevention Plan shall identify construction Best Management Practices to be implemented to ensure that the potential for soil erosion and sedimentation is minimized and to control the discharge of pollutants in stormwater runoff as a result of construction activities.

**RCM-20** **Dewatering.** If required, any dewatering activities during construction shall comply with the requirements of the Waste Discharge Requirements for Discharges of Groundwater from Construction and Project Dewatering to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties (Order No. R4-2008-0032, National Pollutant Discharge Elimination System No. CAG994004) or subsequent permit. This will include submission of a Notice of Intent for coverage under the permit to the Los Angeles Regional Water Quality Control Board at least 45 days prior to the start of dewatering and compliance with all applicable provisions in the permit, including water sampling, analysis, and reporting of dewatering-related discharges.

**RCM-21** **Low Impact Development Plan.** Prior to issuance of grading permits, the Applicant shall submit a Low Impact Development Plan and/or Standard Urban Stormwater Mitigation Plan to the City of Los Angeles Bureau of Sanitation Watershed Protection Division for review and approval. The Low Impact Development Plan and/or Standard Urban Stormwater Mitigation Plan shall be prepared consistent with the requirements of the Development Best Management Practices Handbook.

**RCM-22** **Development Best Management Practices.** Best Management Practices shall be designed to retain or treat the runoff from a storm event producing 0.75 inch of rainfall in a 24-hour period, in accordance with the Development Best Management Practices Handbook Part B Planning Activities. A signed certificate from a licensed civil engineer or licensed architect confirming that the proposed Best Management Practices meet this numerical threshold standard shall be provided.

**LESS THAN SIGNIFICANT IMPACT**

*b. Would the project substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering or the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted)?*

Based upon the criteria established in the L.A. CEQA Thresholds Guide, a project would normally have a significant impact on groundwater level if it would:

- Change potable water levels sufficiently to
  - Reduce the ability of a water utility to use the groundwater basin for public water supplies, conjunctive use purposes, storage of imported water, summer/winter peaking, or respond to emergencies and drought;
  - Reduce yields of adjacent wells or well fields (public or private); or
  - Adversely change the rate or direction of flow of groundwater; or
- Result in demonstrable and sustained reduction in groundwater recharge capacity

The Los Angeles Department of Water and Power (LADWP) supplies City residents with potable and recycled water. Due to limited local water resources, LADWP depends heavily on imported water purchased from the Metropolitan Water District. However, local groundwater supplies are an important piece of LADWP's water portfolio, providing nearly 30 percent of total supply in drought years (LADWP 2013). Because the Southern California region is water-limited, groundwater resources are tightly managed to prevent over-extraction and depletion of groundwater supplies. Los Angeles is entitled to extract 107,408 acre feet per year from groundwater resources (LADWP 2013), with the majority of entitled water—87,000 AF— coming from the San Fernando Basin. Ground water quality issues have prevented LADWP from extracting its entitled amounts. LADWP is investing in efforts to increase groundwater supplies through treatment, cleanup, and enhanced groundwater recharge systems.

The Soils Report revealed that no active surface groundwater seeps or springs were observed on the project site. The subsurface exploration did not encounter groundwater to a depth of 41 feet, and the depth to historical high groundwater is about 60 feet below the surface (see Appendix F). The proposed subgrade parking area would extend about 10 feet below grade and would not encounter groundwater.

Due to the highly-regulated nature of groundwater resources in Southern California, the proposed project would not result in a substantial depletion of groundwater supplies. In addition, the project site is in an urban environment that is largely paved and provides little groundwater recharge. The conversion of 0.12 acre of vacant dirt lot to impervious surface would only nominally impact groundwater recharge and would not result in a lowering of the local groundwater table.

**LESS THAN SIGNIFICANT IMPACT**

*c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on- or off-site?*

*d. Substantially alter the existing drainage pattern of the site or area, including the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or offsite?*

The project involves the construction of a seven-story multi-family residential building on a site containing an existing residence and vacant lot in an urban area. The proposed project would not alter

the course of any stream or other major natural drainage as there are none in the project vicinity. While the proposed project would incrementally increase the amount of impervious surface area on the project site, adherence to City storm water and urban runoff control programs would reduce the quantity of runoff and level of pollutants leaving the site. In particular, as discussed above, the proposed project would need to comply with LAMC Article 4.4, "Stormwater and Urban Runoff Pollution Control," as well as the LID requirements under Section 64.72 that would apply to the construction and operation of the proposed project, such as preparation of a LID plan to achieve full capture and treatment of storm water runoff onsite for a design storm event or 24-hour runoff event, and minimization of impacts to natural drainage systems. Compliance with these requirements would reduce potential impacts. Alterations to the existing drainage pattern would be less than significant and would not result in substantial erosion, siltation, or flooding on- or offsite.

**LESS THAN SIGNIFICANT IMPACT**

*g. Would the project place housing in a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary, Flood Insurance Rate Map, or other flood hazard delineation map?*

*h. Would the project place in a 100-year flood hazard area structures that would impede or redirect flood flows?*

Although not specified in the *L.A. CEQA Thresholds Guide*, a significant impact may occur if:

- The project places housing in a 100-year flood zone; or
- The project is located within a 100-year flood zone, which would impede or redirect flood flows

The project site is located in Zone X of the FEMA Flood Insurance Rate Map (FIRM) (Map # 06037C1620F; September 26, 2008) (FEMA 2008). Zone X is characterized as an area of minimal flood hazard and having a less than 0.2 percent annual chance for a flood. In addition, Exhibit F of the City's Safety Element, "100-Year & 500-Year Flood Plains" indicates that the project site is not within a 100- or 500-year flood plain area (Los Angeles 1996). Therefore, the proposed project would not have the potential to impede flood flows or place housing or structures in a 100-year flood hazard area and there would be no impact.

**NO IMPACT**

*i. Would the project expose people or structures to a significant risk of loss, injury, or death involving flooding including that occurs as a result of the failure of a levee or dam?*

Although not specified in the *L.A. CEQA Thresholds Guide*, a significant impact may occur if a project exposes people or structures to a significant risk of loss or death caused by the failure of a levee or dam, including but not limited to a seismically-induced seiche, which is a surface wave created when a body of water is shaken, which could result in a water storage facility failure.

As discussed above, the project site is not located within a 100-year flood hazard area and Exhibit G of the City's Safety Element, "Inundation & Tsunami Hazard Areas" indicates that the project site is not in a flood control basin (Los Angeles 1996). However, the project site located approximately 7.2 miles northwest of the Mulholland Dam. The dam is continually monitored by various governmental agencies to prevent dam failure and to ensure that the dam is capable of withstanding the maximum potential earthquake for the site. In accordance with these regulations, Mulholland Dam is regularly inspected and meets safety regulations. Should dam failure occur despite safeguards, LADWP has emergency response plans in place to address dam failure and potential impacts. As Mulholland Dam is regularly inspected and subject to regulatory oversight, emergency response plans are in place in case of dam failure, and the dam is located over seven miles from the project site, potential impacts from inundation due to dam failure would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*j. Would the project result in inundation by seiche, tsunami, or mudflow?*

Although not specified in the *L.A. CEQA Thresholds Guide*, a significant impact may occur if a project site is sufficiently close to the ocean or other water body to be potentially at risk of the effects of seismically-induced tidal phenomena (i.e., seiche and tsunami), or if the project site is located adjacent to a hillside area with soil characteristics that would indicate potential susceptibility to mudslides or mudflows.

As indicated in Exhibit G of the City of Los Angeles General Plan Safety Element, the project site lies outside of a tsunami hazard area. In addition, the project site does not lie near a large body of water that could experience a seiche. In addition, the project site is not located near a hillside area and would not be vulnerable to mudflow. Therefore the proposed project would have no impact due to inundation by seiche, tsunami, or mudflow.

**NO IMPACT**

## Cumulative Impacts

As discussed above, the project would not result in any significant hydrological impacts including those related to water quality, drainage systems, and flooding. The proposed project would not substantially increase storm water runoff and other related projects would also be required to comply with the LAMC for urban runoff and LID requirements. In addition, related projects would be subject to NPDES permit requirements, development of SWPPPs, compliance with SUSMP requirements, during operation, and compliance with other local requirements as applicable. Therefore, cumulative impacts related to hydrology and water quality would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

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# 10 Land Use and Planning

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project have any of the following impacts? | | | | |
| a. Physically divide an established community | ☐ | ☐ | ☐ | ■ |
| b. Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect | ☐ | ☐ | ■ | ☐ |
| c. Conflict with an applicable habitat conservation plan or natural community conservation plan | ☐ | ☐ | ☐ | ■ |

*a. Would the project physically divide an established community?*

A significant impact may occur if the project would be sufficiently large enough or otherwise configured in such a way as to create a physical barrier within an established community. According to the L.A. CEQA Thresholds Guide, the determination of significance shall be made on a case-by-case basis considering the following factors:

- The extent of the area that would be impacted, the nature and degree of impacts, and the types of land uses within that area;
- The extent to which existing neighborhoods, communities, or land uses would be disrupted, divided, or isolated, and the duration of the disruptions; and
- The number, degree, and type of secondary impacts to surrounding land uses that could result from implementation of the proposed project.

The project site is located in a highly urbanized area and is currently occupied by a two-story, multi-family residence and a vacant lot. The project site is bounded by commercial uses to the east, restaurants and commercial uses to the west, an art gallery and USC graduate school studios to the north, and residential uses and parking and auto dealership lots to the south. The proposed project would replace the existing residence and vacant lot on the project site with a seven-story multi-family residential project. The proposed use would be compatible with surrounding mixed uses and would not involve construction of any new infrastructure (such as a new road) that would divide the project site or surrounding area. Therefore, the proposed project would not have any impacts related to physically dividing an established community.

**NO IMPACT**

*b. Would the project conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?*

The project site is currently designated for Community Commercial land uses in the Southeast Los Angeles Community Plan and zoned C2 1L Zone (Community Commercial, Height District No. 1L). The land use and zoning designations for the project site allows residential development at the R4 Zone density of one dwelling unit per 400 square feet of lot area. Pursuant to LAMC Section 12.22 C 16, half the area of the abutting alley (approximately 612-square feet) may be included in the density calculation for the site, which yields 21,212 square feet of lot area, permitting up to 54 dwelling units on the site by right. Pursuant to LAMC Section 12.21.4.A, Height District No. EZ 1-L permits up to 75 feet of building height by-right and a 1.5:1 floor area ratio (FAR), which allows up to approximately 30,900 square feet of floor area by right.

The proposed project would be eligible for density bonus incentives in connection with providing an eight percent affordable housing set aside for Very Low Income households, as well as inclusion in the Greater Downtown Housing Incentive Area (GDHIA). The following density bonus options/incentives are being requested by the project applicant:

- An on-menu incentive pursuant to LAMC Section 12.22 A 25 (f) (5) to permit an increase in building height of 11 feet from 75 feet in the C2-1L Zone to a maximum 86 feet for a project with a minimum 11 percent set-aside for Very Low Income units; and
- An off-menu incentive pursuant to LAMC Section 12.22 A 25 (g) (3) to permit an increase in Floor Area Ratio ("FAR") from 1.5:1 to 4:1 in the C2-1L Zone; and
- An incentive pursuant to LAMC 12.22A25(c)(1) to permit an increase in the number of units from 54 units to 73 units by providing 11 percent very low income units.

The project applicant is requesting a site plan review, pursuant to LAMC Section 16.05.C.1.e, for a residential building in the Greater Downtown Housing Incentive Area (GDHIA) to allow no yard setbacks and no prescribed common or private open space percentages, as granted by LAMC Section 12.22.C.3 a and d, respectively. Table 11 summarizes the proposed project's consistency with zoning requirements, given requested entitlements. As indicated therein, with approval of requested entitlements, the proposed project would be consistent with applicable land use plans and policies. In addition, as discussed in the impact analyses for aesthetics, air quality, biological resources, greenhouse gases, hydrology and water quality, noise, transportation, and utilities and service systems, the project would not conflict with applicable General Plan or other policies aimed at mitigating environmental effects. Impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

### Table 11 Consistency with Zoning Ordinance Requirements

| | LAMC Requirements | Proposed Project |
|---|---|---|
| **Lot Area**<br>*(LAMC Section 12.11.C.4)* | Width: 50 feet minimum<br>Area: 5,000 SF (0.11 acres) minimum | Width: 150 feet<br>Area: 20,600 SF (0.47 acres)<br>**Consistent** |
| **Density/Total # of Allowed Units**<br>*(LAMC Section 12.11.C.4)* | One housing unit per 400 SF x 21,212 SF[1]<br>= 53 housing units | 73 housing units<br>**Potentially Consistent with Approval** |
| **Floor Area Ratio (FAR)**<br>*(LAMC Section 12.21.4.A)* | 1.5:1[2]<br>Off-menu request[3]: 4:1 | Project FAR = 4<br>**Potentially Consistent with Approval** |
| **Stories/Height**<br>*(LAMC Section 12.21.3.A)* | 6 stories[4]<br>75 feet permitted + 11 feet density bonus [5]<br>= 86 feet | 7 floors above grade<br>86 feet<br>**Potentially Consistent with Approval** |
| **Side/Rear Yard Setbacks**[6]<br>*(LAMC Section 12.22.C.3.a)* | None required for housing developed in the GDHIA with site plan review and approval | **Potentially Consistent with Approval** |
| **Parking**<br>(*LAMC Section 12.21.A.4)* | 0.5 space per 0- and 1-bedroom unit x 45 = 23 spaces<br>1 space per 2- bedroom unit x 28 units = 28 spaces<br><br>**Total Required = 51 spaces**<br>▪ 15% bicycle reduction[7] = 44 spaces | 78 parking spaces;<br>123 bicycle spaces<br>**Consistent** |
| **Open Space**<br>*(LAMC Section 12.22.C.3.d)* | None required for housing developed in the GDHIA | **Consistent** |

[1] Site Area = 20,600 SF project site + 612 SF qualifying alley space = 21,212 SF
[2] The project site is in an Enterprise Zone (EZ), Height Limited District 1, and subject to LAMC Section 12.21.3.A requirements.
[3] LAMC Section 12.2.A.25.g.3
[4] The proposed project is within Height District No.1-L, or Limited Height District 1. According to LAMC Section 12.21.1.A.1, a building designed and used entirely for residential purposes shall be limited as to the number of feet in height, but not as to the number of stories.
[5] LAMC Section 12.22 A.25.f.5; includes ten feet of a possible mezzanine rooftop level
[6] None required except as required by the Urban Design Standards and Guidelines. The Southeast Los Angeles Community Plan has no required setbacks.
[7] Parking reduction per City of Los Angeles Parking Ordinance (15% due to Transit Priority Area).

*c. Would the project conflict with an applicable habitat conservation plan or natural community conservation plan?*

The project site is located in an urbanized area of Los Angeles. As previously discussed in Section 4, *Biological Resources*, the project site does not support and habitats or natural communities and is not subject to any habitat conservation plan or natural community conservation plan (USFWS 2016; CDFW 2015). Therefore, the proposed project would not conflict with any such plan and there would be no impact.

**NO IMPACT**

## Cumulative Impacts

Impacts related to land use and planning are typically assessed on a project-by-project basis. As with the project, related projects would address site-specific land use compatibility through the implementation of site-specific incentives and/or mitigation measures. In addition, all related development located within the vicinity of the project site would be subject to local regulations pertaining to land use and planning. Therefore, development of the project and related projects would not result in cumulatively significant impacts.

**LESS THAN SIGNIFICANT IMPACT**

# 11 Mineral Resources

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project have any of the following impacts: | | | | |
| a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | ☐ | ☐ | ☐ | ■ |
| b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan? | ☐ | ☐ | ☐ | ■ |

*a. Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?*

*b. Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?*

Although not specified in the *L.A. CEQA Thresholds Guide*, a significant impact may occur if the Project Site is located in an area used or available for extraction of a regionally-important or locally-important mineral resource, or if the project development would convert an existing or future regionally-important or locally-important mineral extraction use to another use, or if the project development would affect access to a site used or potentially available for regionally-important or locally-important mineral resource extraction (Los Angeles 2006). According to the *L.A. CEQA Thresholds Guide*, the determination of significance shall be made on a case-by-case basis considering the following factors:

- Whether, or the degree to which, the project might result in the permanent loss of, or loss of access to, a mineral resource that is located in a State Mining and Geology Board Mineral Resource Zone MRZ-2 zone or other known or potential mineral resource area, and
- Whether the mineral resource is of regional or statewide significance or is noted in the Conservation Element as being of local importance

The Project Site is not currently or historically used for extraction of mineral resources as shown in the General Plan Conservation Element *Exhibit A, Mineral Resources* (Los Angeles 2001). According to the Phase I ESA Report there is one oil well within ¼ a mile of the project site (Chevron USA "Dana Corehole," Well Number: 2). The oil well is the located about 1,300 feet west of the project site and has been plugged and abandoned (see Appendix E; Rincon 2016).

- The project site is located in an urbanized setting that is already fully developed for residential, commercial, and industrial uses with no mineral resource extraction activities occurring on site or in adjacent areas. The project site has not historically been used for extraction of mineral resources.

The California Geological Survey (CGS) Information Warehouse was searched for mineral land classification of the project site (California DOC 2016). According to the CGS mineral land classification maps, the project site is not within an MRZ-2 zone or other known or potential mineral resource area (California DOC 2010). Because there are no known mineral resources or mineral resource extraction on

or in the vicinity of the project site and the proposed project does not involve the use or mining of mineral resources, the project would have no impact on the availability or recovery of mineral resources.

**NO IMPACT**

## Cumulative Impacts

Since the project site or surrounding vicinity are not within an MRZ-2 zone or designated as potential mineral resources areas for mineral extraction, there would be no cumulative impacts resulting from the proposed project.

**NO IMPACT**

# 12 Noise

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project result in any of the following impacts? | | | | |
| a. Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies | ☐ | ☐ | ■ | ☐ |
| b. Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels | ☐ | ☐ | ■ | ☐ |
| c. A substantial permanent increase in ambient noise levels above those existing prior to implementation of the project | ☐ | ☐ | ■ | ☐ |
| d. A substantial temporary or periodic increase in ambient noise levels in the project vicinity above those existing prior to implementation of the project | ☐ | ☐ | ■ | ☐ |
| e. For a project located in an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels | ☐ | ☐ | ☐ | ■ |
| f. For a project near a private airstrip, would it expose people residing or working in the project area to excessive noise | ☐ | ☐ | ☐ | ■ |

Noise level (or volume) is generally measured in decibels (dB) using the A-weighted sound pressure level (dBA). The A-weighting scale is an adjustment to the actual sound power levels to be consistent with that of human hearing response, which is most sensitive to frequencies around 4,000 Hertz (about the highest note on a piano) and less sensitive to low frequencies (below 100 Hertz).

Because of the logarithmic scale of the decibel unit, sound levels cannot be added or subtracted arithmetically. If a sound's noise energy is doubled, the sound level increases by 3 dBA, regardless of the initial sound level. For example, 60 dBA plus 60 dBA equals 63 dBA. Where ambient noise levels are high in comparison to a new noise source, only a small change in noise levels occurs. For example, if 70 dBA ambient noise levels are combined with a 60 dBA noise source, the resulting noise level equals 70.4 dBA. Noise level increases of less than 3 dBA typically are not noticeable.

Noise that is experienced at any receptor can be attenuated by distance or the presence of noise barriers or intervening terrain. Sound from a single source (i.e., a point source) radiates uniformly outward as it travels away from the source in a spherical pattern. The sound level attenuates (or drops off) from point sources at a rate of about 6 dBA for each doubling of distance. Noise from roads (linear sources) typically drops off at about 3-4.5 dBA per doubling of distance. For acoustically absorptive, or soft, sites (i.e., sites with an absorptive ground surface, such as soft dirt, grass, or scattered bushes and trees), an additional ground attenuation value of 1.5 dBA per doubling of distance is normally assumed. A large object or barrier in the path between a noise source and a receiver can substantially attenuate noise levels at the receiver. The amount of attenuation provided by this shielding depends on the size of the object, proximity to the noise source and receiver, surface weight, solidity, and the frequency content of the noise source. Natural terrain features (such as hills and dense woods) and human-made features (such as buildings and walls) can substantially reduce noise levels. Walls are often constructed between a source and a receiver specifically to reduce noise. A barrier that breaks the line of sight between a source and a receiver would typically result in a 10 dBA of noise reduction (Federal Highway Administration [FHWA] 2017).

*a. Would the project result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?*

Although not specified in *L.A. CEQA Thresholds Guide*, a significant impact may occur where a project would not comply with the City of Los Angeles General Plan Noise Element or the City of Los Angeles Noise Ordinance (Ordinance No. 144,331).

A significant impact may also occur if the project were to result in a substantial temporary or periodic increase in ambient noise levels above existing ambient noise levels without the project. Based upon the criteria established in the *L.A. CEQA Thresholds Guide*, a project would normally have a significant impact from noise levels from construction if:

- Construction activities lasting more than one day would exceed existing ambient exterior noise levels by 10 dBA [CNEL ] or more at a noise sensitive use;
- Construction activities lasting more than 10 days in a three-month period would exceed existing ambient exterior noise levels by 5 dBA [CNEL] or more at a noise sensitive use; or
- Construction activities would exceed the ambient noise level by 5 dBA [CNEL] at a noise sensitive use between the hours of 9:00 PM and 7:00 AM Monday through Friday, before 8:00 AM or after 6:00 PM on Saturday, or at any time on Sunday

Pursuant to Program 12 of the City's Noise Element, when the City issues discretionary permits for new noise-sensitive uses, mitigation shall be required as necessary to reduce interior noise to a maximum of 45 dBA CNEL. These guidelines consider a noise exposure of 60 dBA CNEL or less to be the most desirable target for the exterior of residential multi-family uses. However, exposures from 60 to 70 dBA CNEL at multi-family residences are conditionally acceptable with a detailed analysis of noise mitigation and the inclusion of noise insulation features in project design, while noise levels above 70 dBA CNEL are normally unacceptable for sensitive receptors except in unusual circumstances (Los Angeles 1999b).

The primary source of noise in the vicinity of the project site is motor vehicle traffic, particularly from S. Figueroa Street west of the site and S. Flower Street east of the site. Secondary sources of noise include railway operations from the Metro Expo Line along S. Flower Street and freeway traffic from the 110 Freeway east of the site. While typical activities such as conversations and vehicle parking may occur nearby, traffic is the main contributor to existing ambient noise levels as it is characterized by a high number of individual events that often create sustained noise levels. Ambient noise levels are generally highest during the daytime and rush hour unless congestion slows traffic speeds substantially. Ambient

noise levels are generally highest during the daytime and rush hour unless congestion slows traffic speeds substantially.

To determine existing ambient noise levels on the project site and in the surrounding vicinity, three 15-minute noise measurements were taken near the project site during PM peak traffic hours between 4:00 PM and 5:00 PM on November 2, 2016, using an ANSI Type II integrating sound level meter. The first noise measurement was located along S. Figueroa Street west of the project site. The second noise measurement was located by the alleyway along W. 31st Street at the western boundary of the project site. The third noise measurement was located along S. Flower Street east of the project site. Figure 14 shows the on-site noise measurement locations and Table 12 identifies the measured noise levels. Noise levels were measured at 73.0 dBA Leq along S. Figueroa Street, 61.6 dBA Leq by the alley along W. 31st Street (adjacent to the project site), and 73.0 dBA Leq along S. Flower Street.

### Table 12 On-site Noise Measurement Results

| Measurement Number | Measurement Location | Primary Noise Source | Sample Time (Weekday Peak Hour) | Leq [15][1] (dBA) |
|---|---|---|---|---|
| **1** | S. Figueroa Street | Traffic on S. Figueroa Street | 4:00 PM | 73.0 |
| **2** | Alley by project site on W. 31st Street | Traffic on S. Figueroa Street, S. Flower Street, and 110 Freeway; Occasional traffic utilizing alley by project site | 4:20 PM | 61.6 |
| **3** | S. Flower Street | Traffic on Flower Street | 4:40 PM | 73.0 |

Refer to Appendix G for noise monitoring data sheets.
[1] The equivalent noise level (Leq) is defined as the single steady A-weighted level that is equivalent to the same amount of energy as that contained in the actual fluctuating levels over a period of time (essentially, the average noise level). For these measurements the Leq was over a 15-minute period (Leq[15]).
Source: Field visit on November 2, 2016, using ANSI Type II Integrating sound level meter.

The LAMC defines ambient noise as:

> *"…the composite of noise from all sources near and far in a given environment, exclusive of occasional and transient intrusive noise sources and of the particular noise source or sources to be measured. Ambient noise shall be averaged over a period of at least 15 minutes at a location and time of day comparable to that during which the measurement is taken of the particular noise source being measured. (Amended by Ord. No. 156,363,Eff. 3/29/82)*

Therefore, the 15-minute noise measurements taken in the vicinity of the project site represent existing ambient noise.

Although the noise measurements indicated high noise levels along S. Flower Street and S. Figueroa Street, these roadways are not directly adjacent to the project site. Rather, Measurement No. 1 along S. Figueroa Street is approximately 175 feet west of the project site with a parking lot between the project site and the measurement location. In addition, there is an existing 25-foot tall commercial/retail building to the east of the project site, which would stand between the proposed project and S. Flower Street. According to the FHWA, a barrier that breaks the line of sight between a source and a receiver would typically result in a 10 dBA of noise reduction (FHWA 2017). Although the existing commercial/retail building is approximately 61 feet shorter than the proposed project, it would shield

the second residential floor of the proposed project from direct noise generated by traffic on Flower Street and reduce noise impacts for residences on this floor.

The United States Department of Housing and Urban Development (HUD) Barrier Performance Module was used to further assess the commercial/retail building's effectiveness on reducing traffic noise along S. Flower Street. The HUD Barrier Performance Module considers the following input variables: height of the noise barrier, height of the noise source, height of the receiver, distance from the noise source to the noise barrier, distance from the receiver to the noise barrier, and the line-of-sight angle between the receiver and the noise source (HUD 2017). In this case, the noise barrier would be the existing commercial/retail building, the noise source would be traffic noise along S. Flower Street, and the receiver would be residences at the second floor of the proposed project. Results of the HUD Barrier Performance Module are included in Appendix G for reference. According to the HUD Barrier Performance Module, the existing commercial/retail building would reduce traffic noise by approximately 10 dBA (see Appendix G), which correlates with FHWA estimations. However, proposed residences at the project frontage along W. 31st Street and residences located above the second floor would have direct exposure to surrounding roadways and would not benefit from the barrier effects of the existing commercial/retail building.

Considering the distance of the proposed project from S. Figueroa Street and the existing commercial building along S. Flower Street, Measurement No. 3 is more indicative of ambient noise around the project site. Per guidelines in the City's Noise Element, Measurement No. 3 (61.6 dBA Leq) indicates a conditionally acceptable ambient noise level for the proposed project. Although the existing commercial/retail building would reduce noise at the second floor, additional noise insulation features are required to reduce potential impacts to the project.

Per guidelines in the City's Noise Element, conventional construction with closed windows and fresh air supply systems or air conditioning normally would suffice as noise mitigation. However, the proposed project would incorporate the following PDF to reduce noise impacts by achieving acceptable interior noise levels.

**PDF-3** **Noise Reducing Project Features.** The proposed project design shall incorporate the following or their equivalent to reduce potential impacts to future project residents: the windows of all residential units with direct exposure to S. Flower Street shall be dual pane, laminated or similar with a Sound Transmission Class (STC) rating of at least 30; exterior walls facing the street shall be constructed of staggered wood studs, or equipped with a resilient channel between the studs and wallboard, or any other wall system with an STC rating of at least 30; exterior balcony doors facing the street shall be of a sound insulating design with an STC rating of at least 30; and all exterior doors and windows should be installed with proper weather stripping.

**LESS THAN SIGNIFICANT IMPACT**

## Figure 14 Noise Measurement Locations

*Imagery provided by Google and its licensors © 2016.*

Fig 3 Measurement Location

*b. Would the project result in exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?*

Construction of the proposed project could potentially increase groundborne vibration on the project site. Vibration refers to groundborne noise and perceptible motion. Groundborne vibration is almost exclusively a concern inside buildings and is rarely perceived as a problem outdoors, where the motion may be discernible, but without the effects associated with the shaking of a building, there is less adverse reaction. The background vibration velocity level in residential areas is usually around 50 VdB. The vibration velocity level threshold of perception for humans is approximately 65 VdB. (Federal Transit Administration [FTA] 2006). A vibration velocity level of 75 VdB is the approximate dividing line between barely perceptible and distinctly perceptible levels for many people. The range of interest is approximately 50 VdB, which is the typical background vibration velocity level, to 100 VdB, which is the general threshold where minor damage can occur in fragile buildings.

The general human response to different levels of groundborne vibration velocity levels is described in Table 14. Demolition and project construction would both create groundborne vibration and noise. Construction or demolition activity can result in varying degrees of ground vibration, depending on the equipment and methods employed. Operation of construction equipment causes ground vibrations that spread through the ground and diminish in strength with distance. The project site is predominately surrounded by commercial and industrial uses, which are not typically considered noise-sensitive. The nearest sensitive receptor to the project site is the two-story residence located across W. 31st Street, approximately 100 feet south of the project site. Table 13 shows estimated maximum vibration source levels for the most common construction equipment.

### Table 13 Human Response to Different Levels of Ground-borne Vibration

| Vibration Velocity Level | Human Reaction |
|---|---|
| 65 VdB | Approximate threshold of perception for many people. |
| 75 VdB | Approximate dividing line between barely perceptible and distinctly perceptible. Many people find that transportation-related vibration at this level is unacceptable. |
| 85 VdB | Vibration acceptable only if there are an infrequent number of events per day. |

Source: Federal Transit Administration (FTA), Transit Noise and Vibration Impact Assessment, 2006.

Ground-borne vibration at the nearest sensitive receptor site could exceed 85 VdB and, therefore, could potentially cause periodic disturbance. However, ground-borne vibration from construction activity would not reach levels that could cause building damage (100 VdB). In addition, construction would only occur during daytime hours in compliance with Section 41.40 of the LAMC, which would minimize sleep disruption. Pile driving is not included in this analysis because the project construction would not require pile driving but rather drilling, which is included in Table 14.

### Table 14 Vibration Source Levels for Construction Equipment

| | Approximate VdB | |
|---|---|---|
| **Equipment** | **50 feet** | **100 feet** |
| Backhoe | 80 | 74 |
| Loader | 94 | 88 |
| Dozer | 85 | 79 |
| Jack Hammer | 88 | 82 |
| Saw | 76 | 70 |
| Caisson Drilling | 81 | 75 |
| Truck | 88 | 82 |

*Source: Federal Transit Administration (FTA),* Transit Noise and Vibration Impact Assessment, *2006.*

Notes: Vibration levels assume a noise attenuation rate of 6 dBA per doubling of distance.

Construction activity would be temporary, and the use of heavy equipment would be primarily limited to the excavation, site preparation, and exterior construction phases. As construction of the outer shell of the building progresses, the building itself would contain much of the construction activity, and the likelihood of utilizing bulldozers and jackhammers decreases. Trucks would still be anticipated to bring construction materials to the site, which may periodically generate vibrations that would be felt by nearby receptors; however, the vibrations would not be likely to persist for long periods. Because vibration would be a temporary impact during construction and would not occur during normal sleep hours, impacts would be less than significant. As such, temporary impacts from project-related ground-borne vibration would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

c. *Would the project result in a substantial permanent increase in ambient noise levels above levels existing without the project?*

d. *Would the project result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?*

## Construction Noise

Based upon the criteria established in the *L.A. CEQA Thresholds Guide,* a project would have a significant impact during construction if construction related noise levels exceed existing ambient noise levels by more than 5 dBA. The project would result in temporary noise level increases during site preparation, excavation, paving, and building. The grading phase of project construction tends to create the highest construction noise levels because of the operation of heavy equipment. Noise impacts associated with construction activity are a function of the noise generated by construction equipment, the location and sensitivity of nearby land uses, and the timing and duration of the noise-generating activities. Table 15 shows typical peak noise levels associated with various types of heavy construction equipment expected during each construction phase. Noise levels are based on the FHWA *Highway Construction Noise Handbook* (2006). Peak noise levels associated with the use of individual pieces of heavy equipment can range from about 58 to 76 dBA at 100 feet from the source, depending upon the types of equipment in operation at any given time and phase of construction (FHWA 2006).

The nearest sensitive receptor is the two-story residence located across W. 31st Street, approximately 100 feet south of the project site. This sensitive land use may experience a temporary increase in noise during construction activities. Table 16 shows the maximum expected noise levels at sensitive receptors nearest the project site during different phases of construction.

As shown in Table 16, operation of equipment during the different phases of construction could generate noise levels of approximately 77 dBA Leq at the adjacent sensitive receptor. This represents an approximately 15 dBA increase over existing ambient levels of 61.6 dBA Leq measured at the project site.

As noted above, LAMC Section 41.40 restricts construction to between the hours of 7:00 AM and 9:00 PM on weekdays, to between 8:00 AM and 6:00 PM on Saturdays and national holidays, and prohibits construction on Sundays. This includes construction or repair work of any kind, any excavating for any building or structure that includes the use of any power driven drill or riveting machine excavator, and any other equipment that makes loud noises that disturb persons occupying sleeping quarters in any dwelling, hotel, apartment, or other place of residence.

Although construction noise would occur only temporarily during project construction, construction noise would exceed existing ambient noise levels by more than 5 dBA.

**Table 15 Typical Noise Levels Generated by Construction Equipment During Different Phases of Construction**

| Equipment | Type | Typical Lmax (dBA) 100 feet from the Source |
|---|---|---|
| **Demolition** | | |
| Backhoe | Mobile | 68 |
| Front End Loader | Mobile | 67 |
| Saw | Stationary | 58 |
| Dozer | Mobile | 73 |
| **Site Preparation** | | |
| Grader | Mobile | 68 |
| Front End Loader | Mobile | 76 |
| Backhoe | Mobile | 67 |
| **Grading** | | |
| Saw | Mobile | 69 |
| Front End Loader | Mobile | 67 |
| Dozer | Stationary | 73 |
| Backhoe | Mobile | 68 |
| **Building Construction** | | |
| Crane | Mobile | 68 |
| Forklift | Mobile | 67 |
| Front End Loader | Mobile | 68 |
| Backhoe | Mobile | 67 |
| **Architectural Coating** | | |
| Air Compressor | Stationary | 69 |

Source: FHWA, Highway Construction Noise Handbook, 2006.

### Table 16 Construction Noise Levels During Different Phases of Construction

| | Combined Maximum Hourly Noise Levels During Different Phases of Construction | |
|---|---|---|
| **Phase** | **50 feet** | **100 feet** |
| Demolition | 78 | 75 |
| Site Preparation | 79 | 77 |
| Grading | 80 | 76 |
| Building Construction | 81 | 74 |
| Architectural Coating | 75 | 69 |

See Appendix G for calculations. Based on standard attenuation rate of 6 dBA per doubling of distance.

However, the proposed project will incorporate the following PDFs to reduce construction noise levels when construction equipment is within 100 feet of the adjacent residence:

**PDF-4** **Construction Noise Abatement.** The project developer shall schedule construction activities to avoid operating several pieces of equipment simultaneously, to the extent feasible, and use power construction equipment with state-of-the-art noise shielding and muffling devices. Construction activities shall also require the use of temporary sound attenuating barriers along the project site boundary. Temporary sound attenuating barriers must be high enough and long enough to break the line-of-sight between the sound source and the receiver, and must be continuous with no gaps or holes between panels or the ground. Temporary sound barriers can include noise curtains, sound blankets, or solid temporary barriers. No temporary sound barriers would be required along the eastern site boundary.

**PDF-5** **Construction Equipment.** Wherever feasible, the project developer shall incorporate on-site electrical sources or solar generators to power equipment rather than diesel generators.

Installation of a temporary noise barrier between construction activities and adjacent sensitive receptors typically provides up to 10 dBA attenuation (FHWA 2006). Additionally, installation of sound shielding and muffling devices on construction equipment can generally provide approximately 5 dBA attenuation. Therefore, implementation of these measures would reduce construction by up to 15 dBA Leq to approximately 62 dBA Leq, which is similar to the existing ambient noise level of 61.6 dBA Leq. Additionally, this analysis conservatively assumes that multiple pieces of construction equipment would be operating concurrently at all times during each phase of construction. Staggered operation of equipment would potentially further reduce construction related noise. With implementation of the above mitigation measure, temporary construction noise impacts would not exceed ambient exterior noise levels by 5 dBA or more at the surrounding sensitive receptors and impacts would be less than significant.

## Operational Noise

In accordance with the screening criteria established in the *L.A. CEQA Thresholds Guide* (2006), operation of the project would have a significant impact if it includes:

- A stationary noise source likely to be audible beyond the property line of the project site

- More than 75 dwelling units, 100,000 square feet or greater of nonresidential development, or have the potential to generate 1,000 or more average daily trips.

The proposed project is multi-family residential building consisting of 73 residential units and would not include any stationary noise sources. In addition, as discussed in Section 16, *Transportation*, the proposed project would generate a maximum of approximately 380 average daily trips. Therefore, per the City's screening criteria, the proposed project would have a less than significant operational noise impact and further analysis is not required.

**LESS THAN SIGNIFICANT IMPACT**

*e. For a project located in an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?*

*f. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise?*

The project site is not located within an airport land use plan or area subject to excessive noise levels generated by airport operations. The closest public airport to the project site is the Hawthorne Municipal Airport, which is located approximately 7.5 miles southwest of the project site. Therefore, the project would not be subject to excessive noise levels associated with airport operations. In addition, there is no private air strip within or adjacent to the project site. As such, the project site would not be subject to excessive noise levels associated with private air strip operations. No impact would occur.

**NO IMPACT**

## Cumulative Impacts

With compliance with regulatory requirements and implementation of mitigation measures, noise impacts from construction and operation of the project would be less than significant. Like the project, related projects would also be required to comply with LAMC requirements related to construction and operational noise. Environmental review of related projects would address site-specific hazards through the implementation of site-specific recommendations and/or mitigation measures. In addition, all related development located within the vicinity of the project site would be subject to local, regional, state, and federal regulations pertaining to impacts from operational and construction. Therefore, development of the project and related projects would not result in cumulatively significant impacts.

**LESS THAN SIGNIFICANT IMPACT**

# 13 Population and Housing

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project result in any of the following impacts? | | | | |
| a. Induce substantial population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure) | ☐ | ☐ | ■ | ☐ |
| b. Displace substantial amounts of existing housing, necessitating the construction of replacement housing elsewhere | ☐ | ☐ | ■ | ☐ |
| c. Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere | ☐ | ☐ | ■ | ☐ |

*a. Would the project induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?*

According to the California DOF, the City of Los Angeles has a current population of 4,041,707 with an average household size of 2.86 persons (California DOF 2017). The Southern California Association of Governments (SCAG) forecasts that the population of Los Angeles will grow to 4,609,400 by 2040, which is an increase of 578,496, or 14 percent (SCAG 2016).

The proposed project would involve the demolition of existing residential units and the construction of a new seven- story multi-family residential building consisting of 73 units. Based on the average household size in the City of Los Angeles of 2.86, the proposed project would accommodate approximately 209 persons (California DOF 2017). This is a conservative estimate because studio units are unlikely to have more than one person. Therefore, the proposed project would increase the City population to 4,041,916 which is within the SCAG population forecast for 2040. The project site is in a developed urban area and would not require the expansion of infrastructure or roads that might also facilitate population growth. Impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*b. Would the project displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?*

*c. Would the project displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?*

The proposed project involves demolition of an existing multi-family residence, which includes a four-unit apartment building. Based on the City's average household size of 2.88, approximately 12 people currently reside on the project site. Although the project would displace these residences, the project would generate a net increase in housing of approximately 69 residential units. Therefore, the project

would not displace substantial numbers of people or existing housing necessitating the construction of replacement housing elsewhere and impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

## Cumulative Impacts

According to SCAG, the population of Los Angeles will grow to 4,609,400 by 2040, which is an increase of 578,496 from the current population. The sum of residents generated by the project in conjunction with related projects would be anticipated to be within the City's forecast. Like the project, related projects in the City would be serviced with existing infrastructure, including roads, water, sewer, electricity, and natural gas, that is already in place to support urban development. Therefore, cumulative impacts associated with population and housing would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

# 14 Public Services

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project result in any of the following impacts? | | | | |
| a. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: | | | | |
| 1. Fire protection | ☐ | ☐ | ■ | ☐ |
| 2. Police protection | ☐ | ☐ | ■ | ☐ |
| 3. Schools | ☐ | ☐ | ■ | ☐ |
| 4. Parks | ☐ | ☐ | ■ | ☐ |
| 5. Other public facilities | ☐ | ☐ | ■ | ☐ |

*a.1. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire protection?*

Based on the *L.A. CEQA Thresholds Guide*, a project would normally have a significant impact related to fire protection if it requires the addition of a new fire station or the expansion, consolidation, or relocation of an existing facility to maintain service. The Los Angeles Fire Department (LAFD) provides fire protection and emergency medical services for the City of Los Angeles. Fire Station #15, located at 915 W Jefferson Boulevard, is approximately 0.4 mile southwest from the site and is the nearest station to the project site (LAFD 2017a). The proposed project would provide housing for 209 persons and would incrementally increase the service population for Fire Station #15 and any responding station in the service area. In addition, the project site contains an existing multi-family building that would be demolished as part of the proposed project. The proposed project would not affect demand on fire protection services.

The Fire Department would review the proposed site plan, floor plans, and building plans prior to construction to ensure that required fire protection safety features, including building sprinklers and emergency access, comply with Fire Department requirements. The project site is within the Fire Department's existing service area and would not create the need for new or expanded fire protection

facilities (personal communication, Captain Cheyane Caldwell, LAPD 2017b). Implementation of the following RCM would further reduce impacts to less than significant levels.

**RCM-23** **Fire.** The following recommendations of the Fire Department relative to fire safety shall be incorporated into the building plans, which includes the submittal of a plot plan for approval by the Fire Department either prior to the recordation of a final map or the approval of a building permit. The plot plan shall include the following minimum design features:

- Fire lanes, where required, shall be a minimum of 20 feet in width.
- All structures must be within 300 feet of an approved fire hydrant.
- Entrances to any dwelling unit or guest room shall not be more than 150 feet in distance in horizontal travel from the edge of the roadway of an improved street or approved fire lane.

**LESS THAN SIGNIFICANT IMPACT**

*a.2. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for police protection?*

A significant impact may occur if the City of Los Angeles Police Department (LAPD) could not adequately serve a project, necessitating a new or physically altered station. Based on the *L.A. CEQA Thresholds Guide* the determination of whether the project results in a significant impact on police protection must be made considering the following factors:

- The population increase resulting from the proposed project, based on the net increase of residential units or square footage of non-residential floor area;
- The demand for police services anticipated at the time of project buildout compared to the expected level of service available. Consider, as applicable, scheduled improvements to LAPD services (facilities, equipment, and officers) and the project's proportional contribution to the demand; and
- Whether the project includes security and/or design features that would reduce the demand for police services.

The police station closest to the project site is the Southwest Community Police Station, located at 1546 W Martin Luther King Jr. Boulevard approximately 1.8 miles southwest from the site (LAPD 2017). The proposed project would consist of 73 residential units and generate approximately 209 residents based on the average household size in Los Angeles of 2.86 persons (California DOF 2017). However, the project would incrementally increase population in the area compared to the existing population. In addition, the project site contains a multi-family building that would be demolished as part of the proposed project. As such, the proposed project would incrementally increase the service population for the Southwest Community Police Station or any responding station in the service area, and would not affect demand on police services.

The project would also include exterior lighting for security purposes, which would promote safety and reduce the demand for police services. The project site is within the existing service area of the police station and new or expanded police protection facilities would not be required (personal communication, Officer Peter, LAPD2017b). Implementation of the following RCMs would further reduce impacts to less than significant levels.

**RCM-24** **Police – Demolition/Construction Sites.** Temporary construction fencing shall be placed along the periphery of the active construction areas to screen as much of the construction activity from view at the local street level and to keep unpermitted persons from entering the construction area.

**RCM-25** **Police.** The plans shall incorporate the design guidelines relative to security, semi-public and private spaces, which may include but not be limited to access control to building, secured parking facilities, walls/fences with key systems, well-illuminated public and semi-public space designed with a minimum of dead space to eliminate areas of concealment, location of toilet facilities or building entrances in high-foot traffic areas, and provision of security guard patrol throughout the project site if needed. Please refer to "Design Out Crime Guidelines: Crime Prevention Through Environmental Design," published by the Los Angeles Police Department.

**LESS THAN SIGNIFICANT IMPACT**

*a.3. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for schools?*

The proposed project would involve the construction of a multi-family residential building consisting of 73 residential units and would increase city population by 209 residents. Using a conservative per household estimate of 0.12 students from Kindergarten through 5th grade, 0.07 for students from 6th through 8th grade, and 0.07 for students from 9th through 12th grade, the proposed project would generate 19 additional students at Los Angeles Unified School District (LASUD) schools (City of Los Angeles 2012). Students generated by the proposed project would represent an incremental increase in the students served by LAUSD.

In accordance with State law, the applicant would be required to pay school impact fees. Pursuant to Section 65995 (3)(h) of the California Government Code (Senate Bill 50, chaptered August 27, 1998), the payment of statutory fees "...is deemed to be full and complete mitigation of the impacts of any legislative or adjudicative act, or both, involving, but not limited to, the planning, use, or development of real property, or any change in governmental organization or reorganization." Implementation of the following RCM and payment of the development fees would mitigate any potential impacts, and impacts would be less than significant.

**RCM-26** **Schools.** The applicant shall pay school fees to the Los Angeles Unified School District to offset the impact of additional student enrollment at schools serving the project area.

**LESS THAN SIGNIFICANT IMPACT**

*a.4. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for parks?*

Refer to Section 15, *Recreation*, for discussion of the proposed project's impacts to recreational facilities and parks. Impacts to recreational facilities would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*a.5. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for other public facilities?*

Development of the proposed project would result in incremental impacts to the City's public services and facilities such as storm drain usage, solid waste disposal, water usage and wastewater disposal. Impacts to these issue areas are discussed in Section 9, *Hydrology and Water Quality*, and Section 18, *Utilities and Service Systems*.

Other commonly used public facilities include libraries. . The proposed project would population increase of approximately 209 new residents. Therefore, increased demand would be nominal and public facilities, such as libraries, would continue to accommodate the needs of the City and others in Los Angeles County. Increased demand on existing libraries and public services would be negligible and impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

## Cumulative Impacts

The project is not anticipated to contribute to a cumulative demand for fire services, police protection, schools, parks, recreational facilities, and libraries. This is in large part due to the consistency of the project with population projections. LAFD and LAPD would continue to monitor population growth and land development throughout the City and identify additional resources that may need to be met through the City budget. All related projects would be reviewed by the LAFD and LAPD to ensure adequate fire flow capabilities, adequate emergency access, and sufficient security measures. All related projects would also comply with LAFD requirements and LAMC requirements related to fire safety, access, and fire flow. The project and related residential project would pay school fees that would fully mitigate potential school impacts. Moreover, the project and related projects would provide open space and recreational amenities or comply with the parks and open space requirements established by the LAMC to offset potential recreation impacts. Therefore, cumulative impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

# 15 Recreation

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project result in any of the following impacts? | | | | |
| a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated | ☐ | ☐ | ■ | ☐ |
| b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment | ☐ | ☐ | ■ | ☐ |

*a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?*

*b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?*

A significant impact may occur if a project:

- Would include substantial employment or population growth, which could generate an increased demand for park or recreational facilities that would exceed the capacity of existing parks and cause premature deterioration of the park facilities; or
- Includes the construction or expansion of park facilities, the construction of which would have a significant adverse effect on the environment

According to the City of Los Angeles Department of Recreation and Parks (RAP) Facility Map Locator, the project site is within one mile of the Exposition Center and Exposition Park and Rose Garden, Hoover Recreation Center, Saint James Park, and Trinity Recreation Center (RAP 2017a) . As identified by the City of Los Angeles RAP, the City's parks system consists of approximately 16,000 acres of parklands offering extensive recreational, social and cultural programs at 444 park sites in every Los Angeles neighborhood (RAP 2017b). As mentioned in Section 13, *Population and Housing*, the City of Los Angeles has a current population is estimated at 4,040,707 people (California DOF 2016). Consequently, there are about 4.0 acres of parkland for every 1,000 residents and the City currently meets the standard ratio for parkland in the Quimby Act (i.e., 305 acres per 1,000 residents) (California Department of Parks and Recreation 2002).

The proposed project would result in a net population increase of 209 persons. The addition of 209 persons would incrementally reduce the parkland ratio of 4.0 acres of parkland for every 1,000 residents. The project applicant would be required to pay applicable Quimby Act fees required for the project's proposed 73 units. Thus, while there would be an incremental increase in use of the existing parks, the existing parkland ratio would stay nearly the same and no significant impacts would occur to existing parks. In addition, the project would include two recreational rooms and courtyards for resident use. Therefore, impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

## Cumulative Impacts

As discussed in Section 14, *Public Services*, the project and related projects would provide recreational amenities or comply with the parks and open space requirements established by the LAMC to offset potential recreation impacts. Therefore, cumulative impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

# 16 Transportation

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project result in any of the following impacts? | | | | |
| a. Conflict with an applicable plan, ordinance or policy establishing a measure of effectiveness for the performance of the circulation system, taking into account all modes of transportation, including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways, and freeways, pedestrian and bicycle paths, and mass transit? | ☐ | ☐ | ■ | ☐ |
| b. Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways? | ☐ | ☐ | ■ | ☐ |
| c. Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks? | ☐ | ☐ | ☐ | ■ |
| d. Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible use (e.g., farm equipment)? | ☐ | ☐ | ☐ | ■ |
| e. Result in inadequate emergency access? | ☐ | ☐ | ☐ | ■ |
| f. Conflict with adopted policies, plans, or programs regarding public transit, bikeways, or pedestrian facilities, or otherwise substantially decrease the performance or safety of such facilities? | ☐ | ☐ | ☐ | ■ |

*a. Would the project conflict with an applicable plan, ordinance or policy establishing a measure of effectiveness for the performance of the circulation system, taking into account all modes of transportation, including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways, and freeways, pedestrian and bicycle paths, and mass transit?*

Gibson Transportation Consulting, Inc. (GTC) prepared a traffic impact analysis (TIA) for the project in April 2017 (GTC 2017 see Appendix H). Trip generation estimates were developed utilizing trip generation rates and equations from Trip Generation, 9th Edition (Institute of Transportation Engineers [ITE] 2012). Trip generation is shown in Table 17. These trips include market-rate units and affordable units. These trips include a transit reduction factor of 15 percent for the market-rate units based on the proximity of the project to the adjacent Metro Expo Line, provides a station along Jefferson Boulevard less than 1,000 feet from the project site, and other public transit routes in the area. Based on the trip rates, the project would generate a net total of 380 daily trips, including 30 AM peak hour trips and 36 PM peak hour trips.

### Table 17 Estimated Project Trip Generation

| ITE Land Use | Rate | Daily | Peak Hour AM | Peak Hour PM | Total Daily Trips |
|---|---|---|---|---|---|
| **Proposed Project** | | | | | |
| Market-Rate Apartment | Per Dwelling Unit | 6.65 | 34 | 42 | 446 |
| | *Transit/Walk-in Adjustment (-15%)* | | *-5* | *-6* | *-67* |
| Affordable Apartment | Per Dwelling Unit | 4.08 | 3 | 2 | 24 |
| | | **Total Project Trips** | **32** | **38** | **403** |
| **Existing Land Use** | | | | | |
| Apartment | Per Dwelling Unit | 6.65 | 2 | 2 | 27 |
| | *Transit/Walk-in Adjustment (-15%)* | | *0* | *0* | *-4* |
| | | **Total Existing Trips** | **2** | **2** | **23** |
| | | ***Net Total Project Trips (Proposed – Existing)*** | ***30*** | ***36*** | ***380*** |

Source: GTC, Traffic Impact Analysis, 2017 (Appendix H)

Five key study intersections were selected for evaluation in consultation with the Los Angeles Department of Transportation (LADOT). The intersections listed below provide both local and regional access to the project area and define the extent of the boundaries for the traffic impact investigation:

1) Figueroa Street/30th Street
2) Flower Street/30th Street
3) Figueroa Street/Jefferson Boulevard
4) Flower Street/Jefferson Boulevard
5) Figueroa street/32nd Street

Morning (7:00 AM to 10:00 AM) and afternoon (3:00 PM to 6:00 PM) peak period turning movement counts were collected at the five study intersections in November 2016 and are provided in Attachment B of Appendix H. The study intersections were analyzed under the following scenarios:

1) Existing (Year 2017) Conditions
2) Existing with Project (Year 2017) Conditions
3) Future without Project (Year 2020) Conditions
4) Future with Project (Year 2020) Conditions

Consistent with Traffic Study Policies and Procedures (LADOT 2013), intersection capacity was analyzed using the "Critical Movement Analysis (CMA) – Planning" (Transportation Research Circular No. 212, Interim Materials on Highway Capacity, Transportation Research Board, 1980) methodology. The CMA methodology, calculates volume-to-capacity (V/C) ratio and determines intersection level of service (LOS), which is a letter grade ranging from LOS A (free-flow conditions) to LOS F (congested conditions, over capacity).

The significance of the potential impacts of project generated traffic at the signalized study intersections was determined using LADOT's sliding scale methodology, in which the minimum allowable increase in the V/C ratio attributable to a project decreases as the V/C ratio of the intersection increases, as shown in Table 18.

### Table 18 Significant Impact Threshold for Project-Related Traffic

| Intersection Conditions with Project Traffic | | |
|---|---|---|
| **LOS** | **V/C** | **Significant Impact Threshold for Project-Related Increase in V/C Ratio** |
| C | 0.701 – 0.800 | Equal to or greater than 0.04 |
| D | 0.801 – 0.900 | Equal to or greater than 0.02 |
| E,F | > 0.900 | Equal to or greater than 0.01 |

Source: GTC, Traffic Impact Analysis, 2016 (Appendix H)

Table 19 compares Existing Conditions (Year 2017) and Future Conditions (Year 2020) with project traffic to conditions without project traffic. The trip data utilized in table is based on the proposed project's trip generation using the number of residents rather than the number of units in order to analyze project impacts under conservative assumptions.

**Table 19 Existing Plus Project Peak Hour Intersection Capacity Analysis Summary**

| | | | Without Project Conditions | | With Project Conditions | | | |
|---|---|---|---|---|---|---|---|---|
| No. | Intersection | Peak Hour | V/C | LOS | V/C | LOS | Change in V/C | Impact |
| **Existing Conditions (Year 2017)** | | | | | | | | |
| 1 | Figueroa Street/ 30th Street | AM | 0.399 | A | 0.401 | A | 0.002 | NO |
| | | PM | 0.503 | A | 0.504 | A | 0.001 | NO |
| 2 | Flower Street/ 30th Street | AM | 0.169 | A | 0.169 | A | 0.000 | NO |
| | | PM | 0.433 | A | 0.434 | A | 0.001 | NO |
| 3 | Figueroa Street/ Jefferson Boulevard | AM | 0.544 | A | 0.546 | A | 0.002 | NO |
| | | PM | 0.617 | B | 0.619 | B | 0.002 | NO |
| 4 | Flower Street/ Jefferson Boulevard | AM | 0.328 | A | 0.330 | A | 0.002 | NO |
| | | PM | 0.468 | A | 0.470 | A | 0.002 | NO |
| 5 | Figueroa Street/ 32nd Street | AM | 0.328 | A | 0.330 | A | 0.002 | NO |
| | | PM | 0.468 | A | 0.470 | A | 0.002 | NO |
| **Future Conditions (Year 2020)** | | | | | | | | |
| 1 | Figueroa Street/ 30th Street | AM | 0.711 | C | 0.714 | C | 0.003 | NO |
| | | PM | 0.689 | B | 0.691 | B | 0.002 | NO |
| 2 | Flower Street/ 30th Street | AM | 0.178 | A | 0.178 | A | 0.000 | NO |
| | | PM | 0.449 | A | 0.450 | A | 0.001 | NO |
| 3 | Figueroa Street/ Jefferson Boulevard | AM | 0.864 | D | 0.865 | D | 0.001 | NO |
| | | PM | 0.794 | C | 0.797 | C | 0.003 | NO |
| 4 | Flower Street/ Jefferson Boulevard | AM | 0.341 | A | 0.344 | A | 0.003 | NO |
| | | PM | 0.485 | A | 0.487 | A | 0.002 | NO |
| 5 | Figueroa Street/ 32nd Street | AM | 0.341 | A | 0.344 | A | 0.003 | NO |
| | | PM | 0.485 | A | 0.487 | A | 0.002 | NO |

Source: GTC, Traffic Impact Analysis, 2017 (Appendix H)
LOS = Level of Service, V/C = Volume-to-Capacity Ratio
Bold ICU/LOS and HCM/LOS values indicate adverse service levels based on the LOS standards mentioned in this report

All five study intersections would operate at LOS D or better under both Existing Conditions and Existing with Project Conditions. Based on LADOT significant impact criteria, the incremental increase in the V/C ratios with the addition of project traffic would not be significant at any of the study intersections under Existing with Project Conditions.

The Future without Project Conditions (Year 2020) were developed by applying an ambient growth factor of 1 percent per year compounded annually to the Existing traffic volumes. The total adjustment applied over the three-year period was 3.03 percent. The Future with Project Conditions (Year 2020) were developed by adding project traffic to the Future without Project traffic volumes. As shown in Table 19,

Intersection #3, Figueroa Street/Jefferson Boulevard, is projected to operate at LOS D under Future without Project Conditions and Future with Project Conditions during the AM peak hour. The remaining four intersections are anticipated to operate at LOS C or better during both peak hours, with and without project traffic. The project's incremental increase to V/C ratios would not exceed LADOT significance thresholds at any of the five study intersections under Future with Project Conditions. Therefore, impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*b. Would the project conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?*

The Los Angeles County Congestion Management Program (CMP) requires an analysis of all arterial segments and arterial monitoring intersections on the CMP roadway network where the project adds 50 or more peak hour trips. Additionally, the CMP requires evaluation of all mainline freeway monitoring locations where the project adds 150 or more peak hour trips. The nearest CMP arterial roadway to the project is the Harbor Freeway (State Route [SR] 110), with the nearest entrance located approximately 0.5 miles south from the project site. The project would generate at most 380 daily trips, 30 trips during the AM peak hour, and 36 trips during the PM peak hour. The project adds less than 50 peak hour trips; therefore a CMP analysis is not required. Impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*c. Would the project result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?*

No airport or airstrip is located immediately adjacent to the project site. As discussed in Section 8, *Hazards and Hazardous Materials*, and Section 12, *Noise*, the project site is located approximately 7.5 miles northeast of Hawthorne Municipal Airport, which is the nearest airport to the project, and is not located within a designated fly zone or airport influence area. As such, the proposed project would not affect air traffic patterns and no impact would occur.

**NO IMPACT**

*d. Would the project substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible use (e.g., farm equipment)?*

*e. Would the project result in inadequate emergency access?*

A significant impact may occur if the proposed project:

- Includes new roadway design or introduces a new land use or features into an area with specific transportation requirements and characteristics that have not been previously experienced in that area;
- Includes site access or other features designed in such a way as to create hazardous conditions; or
- Would not provide emergency access meeting the requirements of the LAFD, or in any other way threatened the ability of emergency vehicles to access and serve the Project Site or adjacent uses.

The project would not involve any new roadways, nor does it include any design features that would significantly alter existing roadways or site access, or increase hazards. The construction of a multi-family residential building would not result in vehicles or equipment, such as farm equipment or tractors, that

would be incompatible with the existing land uses surrounding the area. In addition, the proposed project would not result in inadequate emergency access because it would be subject to Los Angeles Fire Department review. Review would include acceptance of site plans and project structures prior to occupancy to ensure that required fire protection safety features, such as adequate driveway access to buildings and adequate emergency access, are implemented. Therefore, no impact would occur.

**NO IMPACT**

*f. Conflict with adopted policies, plans, or programs regarding public transit, bikeways, or pedestrian facilities, or otherwise substantially decrease the performance or safety of such facilities?*

A significant impact may occur if the project would conflict with adopted polices or involve modification of existing alternative transportation facilities located on- or off-site. Sidewalks are provided along all key roadways and pedestrian crosswalks with walk lights are provided at signalized intersections in the project vicinity. The proposed project would maintain the current sidewalks, and if necessary repair or reconstruct sidewalks along the project frontage. The proposed project would promote biking and would include 81 biking spaces. Furthermore, the project site is located between Figueroa Street and Flower Street, both of which provide multiple public transit options. The Los Angeles County Metropolitan Transportation Authority (Metro) operates the Expo Line light rail train, which runs along Flower Street and provides service between Santa Monica, Culver City, and downtown Los Angeles. The nearest station is at Jefferson Boulevard, less than 1,000 feet from the project site. As such, the project would not conflict with adopted policies, plans, or programs regarding public transit, bikeways, or pedestrian facilities, and would not otherwise substantially reduce the performance or safety of such facilities. Therefore, there would be no impact related to public transportation and alternative transportation plans, policies, or programs.

**NO IMPACT**

## Cumulative Impacts

As discussed above, the project's incremental increase to V/C ratios would not exceed LADOT significance thresholds at any of the five study intersections under Future with Project Conditions (Year 2020). Therefore, cumulative impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

# 17 Tribal Cultural Resources

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in a Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: | | | | |
| a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or | ☐ | ☐ | ■ | ☐ |
| b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Cod Section 2024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significant of the resource to a California Native American tribe. | ☐ | ☐ | ■ | ☐ |

*a. Would the project cause a substantial adverse change in the significance of a tribal cultural resource as defined in Public Resources Code 21074 that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?*

*b. Would the project cause a substantial adverse change in the significance of a tribal cultural resource as defined in Public Resources Code 21074 that is a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 2024.1?*

As of July 1, 2015, California Assembly Bill 52 of 2014 (AB 52) was enacted and expands CEQA by defining a new resource category, “tribal cultural resources.” Assembly Bill 52 establishes that “A project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment” (PRC Section 21084.2). It further states that the lead agency shall establish measures to avoid impacts that would alter the significant characteristics of a tribal cultural resource, when feasible (PRC Section 21084.3). PRC Section 21074 (a)(1)(A) and (B) defines tribal cultural resources as “sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe” and meets either of the following criteria:

a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or

b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

AB 52 also establishes a formal consultation process for California tribes regarding those resources. The consultation process must be completed before a CEQA document can be certified. AB 52 requires that lead agencies "begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project." Native American tribes to be included in the process are those that have requested notice of projects proposed within the jurisdiction of the lead agency.

The site is flat and vacant, except for one multi-family residence. The site has been previously graded and does not contain any known tribal cultural resources. In addition, according to the Native American Heritage Commission (NAHC), a record search of the *Sacred Lands File* for the area of potential effect (APE) did not generate results for the proposed project (see Appendix I). However, the proposed project would require excavation below the surficial soil layers for the construction of an underground parking level. This could potentially uncover previously unknown tribal cultural resources. The following RCM would reduce potential impacts to a less than significant level by provided for a monitor and avoidance of impacts to any tribal cultural resources that may be uncovered during grading. As such, impacts would be less than significant.

**RCM-27** **Unanticipated Discovery of Tribal Cultural Resources**. In the event that archaeological resources of Native American origin are identified during project construction, all work in the area of the find shall cease and a qualified archaeologist will consult with the City to begin Native American consultation procedures. Construction activities can continue in areas 50 feet away from the find and not associated with the tribal cultural resource location. As part of this process, it may be determined that archaeological monitoring may be required. In addition to the archaeologist, a Native American monitor may also be required to participate in the recovery and disposition of the remains.

**LESS THAN SIGNIFICANT IMPACT**

## Cumulative Impacts

There are no project-level impacts regarding known tribal cultural resources, and potential impacts to unanticipated tribal cultural resources would be less than significant with implementation of RCM-27. Other projects would also undergo any necessary evaluation for potential impacts to tribal cultural resources and comply with relevant regulatory requirements and project recommendations regarding tribal cultural resources. Therefore, cumulative impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

# 18 Utilities and Service Systems

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| Would the project result in any of the following impacts? | | | | |
| a. Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board | ☐ | ☐ | ■ | ☐ |
| b. Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects | ☐ | ☐ | ■ | ☐ |
| c. Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects | ☐ | ☐ | ■ | ☐ |
| d. Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed | ☐ | ☐ | ■ | ☐ |
| e. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments | ☐ | ☐ | ■ | ☐ |
| f. Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs | ☐ | ☐ | ■ | ☐ |
| g. Comply with federal, state, and local statutes and regulations related to solid waste | ☐ | ☐ | ■ | ☐ |

*a. Would the project exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?*

*b. Would the project require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?*

*e. Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?*

The Los Angeles Bureau of Sanitation (LASAN) operates and maintains the City's wastewater infrastructure. The City's wastewater collection system serves over four million residential and business customers within a 600 square mile service area that includes Los Angeles and 29 contracting cities and agencies. Over 6,700 miles of public sewers connect to the City's four wastewater treatment and water reclamation plants, which have a combined capacity to treat an average of 580 million gallons per day (mgd) of wastewater (LASAN 2017a). The Hyperion Treatment Plant (HTP) serves the project site and is located in Playa del Rey. According to LASAN, the HTP is designed to treat up to 450 mgd and currently treats an average of 275 mgd, with a remaining capacity of 175 mgd (LASAN 2017b).

The proposed 73-unit multi-family residential building would include studios, one-, and two-bedroom apartments. The average daily generation sewer rates for each unit type are shown in Table 20.

### Table 20 Average Daily Sewer Generation Rates

| Unit Type | Number of Units | Sewer Generation Rate (gallons/unit) | Total Sewage Generation (gallons/day) |
|---|---|---|---|
| Studio | 21 | 80 | 1,680 |
| 1-Bedroom | 24 | 120 | 2,880 |
| 2-Bedroom | 28 | 160 | 4,480 |
| Total Proposed Project | | | 9,040 |

Source: *L.A. CEQA Thresholds Guide*, 2006, Exhibit M.2-12, Sewage Generation Factors.

The proposed project would produce an estimated 9,040 gallons of wastewater per day, which is about 0.006 percent of the remaining capacity at the HTP. As such, the proposed project would not generate wastewater such that the HTP would become constrained. Therefore, impacts to wastewater facilities would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*c. Would the project require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?*

The proposed project would include permeable landscape and raised planters at ground floor on all sides of the building. As discussed in Section 9, *Hydrology and Water Quality*, the proposed project would comply with current regulations pertaining to retention/detention of site runoff into storm drains and receiving waters, as well LID requirements which would apply to the construction and operation of the proposed project to further reduce storm water runoff. Compliance with these requirements would reduce potential impacts to local storm water drainage facilities to a less than significant level.

**LESS THAN SIGNIFICANT IMPACT**

*d. Would the project have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?*

A significant impact may occur if a project would increase water consumption to such a degree that new water sources would need to be identified. The Los Angeles Department of Water and Power (LADWP) supplies water within the City limits. LADWP water sources between 2010 and 2014 included: the Los

Angeles Aqueducts (LAA) (average of 29 percent), local groundwater (average of 12 percent), the Metropolitan Water District (MWD) (average of 57 percent) and recycled water (2 percent) (UWMP, 2015). Assuming that water use is 120 percent of wastewater generation (as calculated in Table 20, above) the proposed project would increase water demand by approximately 10,848 gallons per day or 12.2 acre-feet per year (AFY). Table 21 shows the service area reliability assessment for a potential multiple dry year period 2020-2040, such as what was experienced from the years 2010-2015 according to the City's 2015 Urban Water Management Plan (UWMP).

### Table 21 Multiple Dry Years Water Supply and Demand

| | 2020 | 2025 | 2030 | 2035 | 2040 |
|---|---|---|---|---|---|
| Total Demand (AFY) | 642,400 | 676,900 | 685,500 | 694,900 | 709,500 |
| **Supply (AFY)** | | | | | |
| Existing/Planned | 323,470 | 369,470 | 380,470 | 396,670 | 398,970 |
| MWD Water Purchases | 318,930 | 307,430 | 305,030 | 298,230 | 310,530 |
| Total Supply | 642,400 | 676,900 | 685,500 | 694,900 | 709,500 |

Source: LADWP, 2015 Urban Water Management Plan (UWMP), Exhibit 11G.

California is facing one of the most severe droughts on record. On January, 17, 2014, the governor proclaimed a State of Emergency and directed state officials to take all necessary actions to make water immediately available (California DWR 2015). The proclamation included several key measures such as requesting that all California residents reduce their water consumption by 20 percent and the immediate implementation of local water shortage contingency plans by water suppliers. In July 2014, the State Water Resources Control Board (SWRCB) adopted new water conservation regulations (Resolution 2014-0038); including select prohibitions for all water users and required actions for all water agencies. Finally, in response to ongoing extreme drought conditions, Mayor Eric Garcetti issued Executive Directive No. 5, Emergency Drought Response – Creating a Water Wise City (ED5) in, which specified timeframes and water use reduction targets to increase water conservation. According to Los Angeles' Sustainable City pLAn, citywide targets include a 20 percent gallon per capita per day (gpcd) reduction by 2017, a 22.5 percent reduction by 2025, and a 25 percent reduction by 2035. Other long-term outcomes involve LADWP reducing their purchases of imported water by 50 percent by 2025, and sourcing 50 percent of water locally by 2035, including 150,000 AFY of storm water capture (Los Angeles 2015).

LADWP anticipates that through various measures, such as conservation and rebalancing the proportions of existing and future water supply sources, adequate water supplies will be available even in the multi-dry year scenario. Total demand in Table 21 was calculated based on LADWP's service area population, which is expected to increase from 3,987,622 in 2015 to 4,441,545 in 2040 (LADWP 2015). As discussed above, in Section 13, *Population and Housing*, the proposed project would result in a net increase of 199 residents. The total demand in Table 22 was calculated based on LADWP's area population which is expected to increase to 4,441,545 in 2040. As discussed above in Section 13, *Population and Housing*, the proposed project would not exceed the SCAG projected growth rates. Therefore, the population increase (and water demand increase) associated with the proposed project has been accounted for in the UWMP. Despite the current drought conditions, the 12.2 AFY of water demand associated with the proposed project could be accommodated with existing and planned supplies as the demand forecast in the UWMP accounts for future development and population growth. In addition, the proposed project would be required to comply with all existing and future restrictions on water use that the City implements. As such, water supply impacts would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

*f. Would the project be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?*

*g. Would the project comply with federal, state, and local statutes and regulations related to solid waste?*

The management of solid waste in the City of Los Angeles involves public and private refuse collection services as well as public and private operation of solid waste transfer, resource recovery, and disposal facilities. LASAN provides collection services primarily to single-family residences, while multi-family residences, such as apartment complexes (e.g. the proposed project), contract with a private company to collect and transport their materials for disposal or recycling.

The City of Los Angeles has enacted numerous waste reduction and recycling programs in order to comply with AB 939, which required every city in California to divert at least 50 percent of its annual waste by the year 2000, and be consistent with AB 341, which sets a 75 percent recycling goal for California by 2020. As tracked by the City's Zero Waste Progress Report, the City achieved a landfill diversion rate of 76 percent as of 2012 (Los Angeles 2006, Los Angeles 2013).The City of Los Angeles has also prepared a Solid Waste Management Policy Plan (CiSWMPP), which contains long-term goals, objectives and policies for solid waste management for the City. It specifies that the City's Zero Waste goal is to reduce, reuse, recycle, or convert the resources currently going to disposal so as to achieve an overall diversion rate of 90 percent or more by the year 2025 (LASAN 2013).

With regard to the proposed project, the handling of all debris and waste generated during construction would be subject to the State's requirements under AB 939 for salvaging, recycling, and reuse of materials from construction activity on the project site. The proposed project has two components (construction and operation) that would result in the generation of solid waste. For purposes of this analysis, the estimated operational waste is used to determine the net increase in solid waste from the proposed project. Construction of the proposed project would also involve site preparation activities that would generate waste materials; however, construction would be temporary. In addition, the proposed project would be required to comply with the City's Construction and Demolition (C&D) Waste Recycling Ordinance. All construction and demolition waste generated by the proposed project would be required to be taken to a certified C&D waste processor. Many certified waste processors are located within with the City of Los Angeles. The processor closest to the project site is Downtown Diversion/USA Waste of California, located approximately 2.75 miles northeast of the project site at 2424 East Olympic Boulevard, which has a recycling rate of 77.08% percent as of January 1, 2017 (LASAN 2017c).

LASAN manages solid waste collection in the City. Table 22 summarizes the permitted daily throughput, estimated average waste quantities disposed, remaining capacity, and closure date for landfills and waste facilities in the vicinity of the project site. Landfills and facilities that may serve the project site have an average remaining capacity of over 11,000 tons per day.

### Table 22 Solid Waste Disposal Facilities

| Facility | Permitted Daily Throughput (tons/day) | Average Daily Waste Quantities Disposed (tons/day) | Estimated Remained Daily Capacity (tons/day)[1] | Estimated Remaining Permitted Capacity (million tons) | Estimated Closure Date |
|---|---|---|---|---|---|
| Calabasas Landfill | 3,500 | 748 | 2,752 | 6.53 | 2029 |
| Sunshine Canyon Landfill | 12,100 | 7,582 | 4,518 | 64.69 | 2037 |
| Chiquita Canyon Landfill | 6,000 | 3,558 | 2,442 | 1.83 | 2019 |
| Commerce Refuse-To-Energy Facility | 1,000 | 333 | 667 | N/A | N/A |
| Southeast Resource Recovery Facility | 2,240 | 1,470 | 770 | N/A | N/A |
| Total | 24,840 | 13,691 | 11,149 | 73.05 | – |

N/A = not available

[1] Estimated remaining daily capacity was calculated by subtracting the average daily waste quantities disposed from the permitted daily throughput.

Sources: Los Angeles County, Countywide Integrated Waste Management Plan, 2014;CalRecycle, Solid Waste Information System Facility/Site 2017

As shown in Table 23, the estimated solid waste generation rate for a residential use is 12.23 pounds per household per day, according to Section M.3., Solid Waste, in the *L.A. CEQA Thresholds Guide*. Thus, the proposed mixed-use building would generate a net increase of 847 pounds per day, or approximately 0.4 tons per day. This estimate is conservative since it does not factor in any recycling or waste diversion programs. The proposed project's solid waste would be handled by private waste collection services. The 0.4 tons generated by the project would not exceed the existing daily capacity of any of the landfills listed in Table 22.

### Table 23 Estimated Solid Waste Generation

| Land Use Type | Number of Proposed Units | Solid Waste Generate Rate (pounds per day) | Total Solid Waste Generation (pounds per day) |
|---|---|---|---|
| Proposed Apartment Complex | 73 | 12.23 | 893 |
| Existing Apartments | 4 | 12.23 | 49 |
| Total Project Solid Waste Generation (Proposed – Existing) | | | 847 |

Sources: Source: *L.A. CEQA Thresholds Guide*, 2006, Section M.3.

The proposed project would comply with federal, state, and local statutes and regulations related to solid waste, such as AB 939, the Solid Waste Management Policy Plan, and the City's recycling program. In addition, there is adequate landfill capacity in the region to accommodate project-generated waste and through compliance with the below RCM, impacts related to solid waste and waste facilities would be less than significant.

**RCM-28 Local Water Supplies – Residential Condominium Conversion.**

- Install/retrofit high-efficiency toilets (maximum 1.28 gpf), including dual-flush water closest in all restrooms as appropriate.
- Install/retrofit restroom faucets with a maximum flow rate of 1.5 gallons per minute.
- Install/retrofit no more than one showerhead per shower stall, having a flow rate no greater than 2.0 gallons per minute.
- Install and utilize only high-efficiency clothes washers (water factor of 6.0 or less) in the project, if proposed to be provided in either individual units and/or in a common laundry room(s). If such appliance is to be furnished by a tenant, this requirement shall be incorporated into the lease agreement, and the applicant shall be responsible for ensuring compliance.
- Install and utilize only high-efficiency Energy Star-rated dishwashers in the project, if proposed to be provided. If such appliances are to be furnished by a tenant, this requirement shall be incorporated into the lease agreement, and the applicant shall be responsible for ensuring compliance.

**LESS THAN SIGNIFICANT IMPACT**

## Cumulative Impacts

As discussed above, the proposed project would not cause significant impacts related to water demand, wastewater treatment, and solid waste facilities and landfill capacities. Impacts related to public utilities and services are typically assessed on a project-by-project basis, due to the site-specific demands and generation rates. As with the project, related projects would address site-specific utility impacts through environmental review and implementation of site-specific recommendations and/or mitigation measures, if necessary. In addition, all related development located within the vicinity of the project site would be subject to applicable local and regional regulations pertaining to utilities that service the area. Therefore, the cumulative impact would be less than significant.

**LESS THAN SIGNIFICANT IMPACT**

# 19 Mandatory Findings of Significance

| | Potentially Significant Impact | Potentially Significant Unless Mitigation Incorporated | Less than Significant Impact | No Impact |
|---|---|---|---|---|
| a. Does the project have the potential to substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self- sustaining levels, eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? | ☐ | ☐ | ■ | ☐ |
| b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)? | ☐ | ☐ | ■ | ☐ |
| c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? | ☐ | ☐ | ■ | ☐ |

*a. Does the project have the potential to substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self- sustaining levels, eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?*

A significant impact may occur only if a project would have an identified potentially significant impact for any of the above issues, as discussed in the preceding sections. As discussed in Section 4, *Biological Resources*, the project site contains a few invasive trees along its periphery, as well as non-native grasses. A few palm trees are also planted in the sidewalk area in front of the project site along 31st Street. As the project site is within an urbanized area and is typical of an urban environment, it does not contain habitat of quality to support native riparian plant/wildlife species or other sensitive natural communities. However, the proposed project has the potential to impact migratory and other bird species if construction activities occur during the nesting season. As such, implementation of RCM-10 is required to reduce impacts to nesting birds to a less than significant level.

In addition, the proposed project would require excavation below the surficial soil layers for the construction of an underground parking level. This could uncover previously undisturbed paleontological resources, human remains, or tribal cultural resources. As noted under Section 5, *Cultural Resources*, and

Section 17, *Tribal Cultural Resources*, implementation of the proposed project would have a less than significant impact on known cultural resources with implementation of RCM-12, -13, -14, and -27, which would require adherence to existing local, state and federal regulations related to the discovery of any unanticipated cultural or tribal cultural resources and human remains during construction activity. With implementation of RCM-12, -13, -14, and -27 impacts to California history or pre-history would be reduced to a less than significant level.

**LESS THAN SIGNIFICANT IMPACT**

*b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?*

A significant impact may occur if the proposed project, in conjunction with other related projects in the vicinity of the project site, would result in impacts that may be less than significant when viewed separately, but would be significant when viewed together. There are no projects within the immediate vicinity of the project site. However, six approved and/or under construction projects are located between 0.5 and 1.0 mile from the project site according to the City's Major Projects list (City of Los Angeles 2016).

As described in the discussion of environmental checklist Sections 1 through 18, the project would have no impact, a less than significant impact, or a less than significant impact with mitigation incorporated, with respect to all environmental issues. The nearest major projects are the 2222 S. Figueroa Street Project (0.5 mile northeast), and the 3900 S. Figueroa Street Project (0.7 mile southwest). These projects are far enough away from the project site that significant additive impacts would not result. No known planned or pending projects are located in the immediate site vicinity that would substantially contribute to any additive effects in conjunction with the project with respect to issues such as aesthetics, land use, and construction-related impacts (i.e. traffic, air quality, and noise). The project's contribution to cumulative regional and global impacts with respect to such issues as air quality, climate change, and noise would not be substantial due to the project size, location, and design. Some of the other resource areas (agricultural and mineral) were determined to have no impact in comparison to existing conditions; therefore, the project would not contribute to cumulative impacts related to these issues. In addition, as discussed in Section 16, *Transportation*, the TIA provides an analysis for potential cumulative traffic impacts (Future Conditions Year 2020), which were found to be less than significant. As such, with implementation of RCMs and mitigation measures included in this Initial Study and compliance with applicable rules and regulations, cumulative impacts would be less than significant (not cumulatively considerable).

**LESS THAN SIGNIFICANT IMPACT**

*c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?*

A significant impact may occur if the proposed project has the potential to result in significant impacts, as discussed in the preceding sections. In general, impacts to human beings are associated with such issues as air quality, hazards and hazardous materials, and noise impacts. As detailed in Section 3, *Air Quality*, Section 8, *Hazards and Hazardous Materials*, and Section 16, *Transportation*, the proposed project would not result, either directly or indirectly, in significant hazards related to air quality, hazardous materials, or traffic congestion. As discussed in Section 12, *Noise,* short-term construction and long-term operational use would not create significant impacts on neighboring properties. In addition, noise impacts on the proposed project would be reduced to less than significant levels through implementation of the mitigation measures identified in Section 12. Compliance with applicable rules

and regulations, RCMs, and mitigation measures would reduce potential impacts on human beings to a less than significant level.

**LESS THAN SIGNIFICANT IMPACT**

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# Appendix A

Air Quality and Greenhouse Gas Emissions Modeling Results

# 505-517 West 31st Street - Proposed Project

**Los Angeles-South Coast County, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Apartments Mid Rise | 73.00 | Dwelling Unit | 0.47 | 59,390.00 | 209 |
| Enclosed Parking with Elevator | 78.00 | Space | 0.00 | 32,960.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 33 |
| **Climate Zone** | 11 | | | **Operational Year** | 2021 |
| **Utility Company** | Southern California Edison | | | | |
| **CO2 Intensity (lb/MWhr)** | 702.44 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project description; 59,390 sf residential on 0.47 acres; two levels of parking (16,480 sf * 2 = 32,960 sf)

Construction Phase - 2 years of construction; grading phase extended for subterranean garage; architectural coating typically begins halfway during construction

Grading - Project description: 7,166 cubic yards of soil exported (from PD) on 0.47 acre site.

Demolition - Demolition of existing structure, approximately 50 ft x 35 ft = 1,750 sf

Architectural Coating - SCAQMD Rule 1113 assumed VOC content of 50 g/L

Vehicle Trips - Traffic study: market-rate apts receive 15% credit; [(67 market-rate DU * 6.65 market-rate trips/DU * 0.85) + (6 affordable DU * 4.08 affordable trips/DU)] / 73 DU = 5.52 trips/DU

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - SCAMQD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Land Use Mitigation -

Energy Mitigation - 2016 Title 24 exceeds 2013 standards by 28%

Waste Mitigation - City of Los Angeles adopted 70% diversion rate goal by 2020, which would mean 60% on top of 50% baseline from AB939 (1-0.5*0.6=0.7=70%)

Woodstoves - No woodstoves or fireplaces in plans

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 100.00 | 50.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 100.00 | 50.00 |
| tblArchitecturalCoating | EF_Parking | 100.00 | 50.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 100 | 50 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 100 | 50 |
| tblAreaCoating | Area_EF_Parking | 100 | 50 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 40 | 0 |
| tblConstructionPhase | NumDays | 5.00 | 235.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 100.00 | 475.00 |
| tblConstructionPhase | NumDays | 2.00 | 24.00 |
| tblConstructionPhase | PhaseEndDate | 11/21/2018 | 5/22/2020 |
| tblConstructionPhase | PhaseEndDate | 11/7/2018 | 5/15/2020 |
| tblConstructionPhase | PhaseEndDate | 6/20/2018 | 7/20/2018 |
| tblConstructionPhase | PhaseEndDate | 11/14/2018 | 5/22/2020 |
| tblConstructionPhase | PhaseStartDate | 11/15/2018 | 7/1/2019 |
| tblConstructionPhase | PhaseStartDate | 6/21/2018 | 7/23/2018 |
| tblConstructionPhase | PhaseStartDate | 11/8/2018 | 5/18/2020 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 62.05 | 0.00 |
| tblFireplaces | NumberNoFireplace | 7.30 | 0.00 |
| tblFireplaces | NumberWood | 3.65 | 0.00 |
| tblGrading | AcresOfGrading | 0.00 | 0.47 |
| tblGrading | MaterialExported | 0.00 | 7,166.00 |
| tblLandUse | BuildingSpaceSquareFeet | 73,000.00 | 59,390.00 |
| tblLandUse | BuildingSpaceSquareFeet | 31,200.00 | 32,960.00 |
| tblLandUse | LandUseSquareFeet | 73,000.00 | 59,390.00 |
| tblLandUse | LandUseSquareFeet | 31,200.00 | 32,960.00 |
| tblLandUse | LotAcreage | 1.92 | 0.47 |
| tblLandUse | LotAcreage | 0.70 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2018 | 2021 |
| tblVehicleTrips | ST_TR | 6.39 | 5.52 |
| tblVehicleTrips | SU_TR | 5.86 | 5.52 |
| tblVehicleTrips | WD_TR | 6.65 | 5.52 |

| | | | |
|---|---|---|---|
| tblWoodstoves | NumberCatalytic | 3.65 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 3.65 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

**Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2018 | 1.5507 | 21.7020 | 11.5120 | 0.0429 | 1.5718 | 0.7267 | 2.2423 | 0.6297 | 0.6690 | 1.2696 | 0.0000 | 4,501.6703 | 4,501.6703 | 0.4637 | 0.0000 | 4,513.2624 |
| 2019 | 3.3187 | 13.4838 | 13.3201 | 0.0267 | 0.9663 | 0.7515 | 1.7178 | 0.2582 | 0.7021 | 0.9602 | 0.0000 | 2,664.0613 | 2,664.0613 | 0.4364 | 0.0000 | 2,674.9704 |
| 2020 | 3.1568 | 12.2051 | 12.7865 | 0.0264 | 0.9663 | 0.6473 | 1.6136 | 0.2582 | 0.6046 | 0.8628 | 0.0000 | 2,609.5720 | 2,609.5720 | 0.4295 | 0.0000 | 2,620.3099 |
| **Maximum** | **3.3187** | **21.7020** | **13.3201** | **0.0429** | **1.5718** | **0.7515** | **2.2423** | **0.6297** | **0.7021** | **1.2696** | **0.0000** | **4,501.6703** | **4,501.6703** | **0.4637** | **0.0000** | **4,513.2624** |

**Mitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2018 | 1.5507 | 21.7020 | 11.5120 | 0.0429 | 1.1278 | 0.7267 | 1.7983 | 0.3981 | 0.6690 | 1.0380 | 0.0000 | 4,501.6703 | 4,501.6703 | 0.4637 | 0.0000 | 4,513.2624 |
| 2019 | 3.3187 | 13.4838 | 13.3201 | 0.0267 | 0.9663 | 0.7515 | 1.7178 | 0.2582 | 0.7021 | 0.9602 | 0.0000 | 2,664.0613 | 2,664.0613 | 0.4364 | 0.0000 | 2,674.9704 |
| 2020 | 3.1568 | 12.2051 | 12.7865 | 0.0264 | 0.9663 | 0.6473 | 1.6136 | 0.2582 | 0.6046 | 0.8628 | 0.0000 | 2,609.5720 | 2,609.5720 | 0.4295 | 0.0000 | 2,620.3099 |
| **Maximum** | **3.3187** | **21.7020** | **13.3201** | **0.0429** | **1.1278** | **0.7515** | **1.7983** | **0.3981** | **0.7021** | **1.0380** | **0.0000** | **4,501.6703** | **4,501.6703** | **0.4637** | **0.0000** | **4,513.2624** |

505-517 West 31st Street - Proposed Project - Los Angeles-South Coast County, Winter

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **12.67** | **0.00** | **7.97** | **20.21** | **0.00** | **7.49** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.4743 | 0.0698 | 6.0437 | 3.2000e-004 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | 0.0000 | 10.8614 | 10.8614 | 0.0106 | 0.0000 | 11.1253 |
| Energy | 0.0241 | 0.2057 | 0.0875 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 262.5861 | 262.5861 | 5.0300e-003 | 4.8100e-003 | 264.1465 |
| Mobile | 0.7596 | 3.7780 | 10.1830 | 0.0352 | 2.9280 | 0.0306 | 2.9587 | 0.7836 | 0.0286 | 0.8122 | | 3,581.3002 | 3,581.3002 | 0.1945 | | 3,586.1638 |
| **Total** | **2.2580** | **4.0534** | **16.3142** | **0.0368** | **2.9280** | **0.0806** | **3.0086** | **0.7836** | **0.0785** | **0.8622** | **0.0000** | **3,854.7477** | **3,854.7477** | **0.2101** | **4.8100e-003** | **3,861.4356** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.4743 | 0.0698 | 6.0437 | 3.2000e-004 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | 0.0000 | 10.8614 | 10.8614 | 0.0106 | 0.0000 | 11.1253 |
| Energy | 0.0203 | 0.1730 | 0.0736 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | | 220.8898 | 220.8898 | 4.2300e-003 | 4.0500e-003 | 222.2024 |
| Mobile | 0.7596 | 3.7780 | 10.1830 | 0.0352 | 2.9280 | 0.0306 | 2.9587 | 0.7836 | 0.0286 | 0.8122 | | 3,581.3002 | 3,581.3002 | 0.1945 | | 3,586.1638 |
| **Total** | **2.2541** | **4.0208** | **16.3003** | **0.0366** | **2.9280** | **0.0779** | **3.0060** | **0.7836** | **0.0759** | **0.8595** | **0.0000** | **3,813.0514** | **3,813.0514** | **0.2093** | **4.0500e-003** | **3,819.4914** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.17** | **0.81** | **0.09** | **0.57** | **0.00** | **3.28** | **0.09** | **0.00** | **3.36** | **0.31** | **0.00** | **1.08** | **1.08** | **0.38** | **15.80** | **1.09** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 6/4/2018 | 6/15/2018 | 5 | 10 | |
| 2 | Site Preparation | Site Preparation | 6/16/2018 | 6/18/2018 | 5 | 1 | |
| 3 | Grading | Grading | 6/19/2018 | 7/20/2018 | 5 | 24 | |
| 4 | Building Construction | Building Construction | 7/23/2018 | 5/15/2020 | 5 | 475 | |
| 5 | Paving | Paving | 5/18/2020 | 5/22/2020 | 5 | 5 | |
| 6 | Architectural Coating | Architectural Coating | 7/1/2019 | 5/22/2020 | 5 | 235 | |

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 0.47**

**Acres of Paving: 0**

**Residential Indoor: 120,265; Residential Outdoor: 40,088; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,978 (Architectural Coating – sqft)**

**OffRoad Equipment**

505-517 West 31st Street - Proposed Project - Los Angeles-South Coast County, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 4 | 6.00 | 9 | 0.56 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Grading | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 6.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Paving | Pavers | 1 | 7.00 | 130 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 1 | 1.00 | 247 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 1.00 | 247 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

## Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Architectural Coating | 1 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 5 | 66.00 | 13.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Demolition | 4 | 10.00 | 0.00 | 8.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 896.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 2 | 5.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

## 3.2 Demolition - 2018

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.1723 | 0.0000 | 0.1723 | 0.0261 | 0.0000 | 0.0261 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0643 | 9.4295 | 7.7762 | 0.0120 | | 0.6228 | 0.6228 | | 0.5943 | 0.5943 | | 1,169.3502 | 1,169.3502 | 0.2254 | | 1,174.9857 |
| **Total** | **1.0643** | **9.4295** | **7.7762** | **0.0120** | **0.1723** | **0.6228** | **0.7950** | **0.0261** | **0.5943** | **0.6204** | | **1,169.3502** | **1,169.3502** | **0.2254** | | **1,174.9857** |

## 3.2 Demolition - 2018

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 8.1400e-003 | 0.2620 | 0.0572 | 6.4000e-004 | 0.0140 | 1.0000e-003 | 0.0150 | 3.8300e-003 | 9.6000e-004 | 4.7900e-003 | | 68.8771 | 68.8771 | 5.0100e-003 | | 69.0023 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0612 | 0.0462 | 0.4973 | 1.1900e-003 | 0.1118 | 1.0000e-003 | 0.1128 | 0.0296 | 9.2000e-004 | 0.0306 | | 118.0576 | 118.0576 | 4.4400e-003 | | 118.1687 |
| **Total** | **0.0693** | **0.3082** | **0.5545** | **1.8300e-003** | **0.1258** | **2.0000e-003** | **0.1278** | **0.0335** | **1.8800e-003** | **0.0354** | | **186.9347** | **186.9347** | **9.4500e-003** | | **187.1710** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.0775 | 0.0000 | 0.0775 | 0.0117 | 0.0000 | 0.0117 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0643 | 9.4295 | 7.7762 | 0.0120 | | 0.6228 | 0.6228 | | 0.5943 | 0.5943 | 0.0000 | 1,169.3502 | 1,169.3502 | 0.2254 | | 1,174.9857 |
| **Total** | **1.0643** | **9.4295** | **7.7762** | **0.0120** | **0.0775** | **0.6228** | **0.7003** | **0.0117** | **0.5943** | **0.6060** | **0.0000** | **1,169.3502** | **1,169.3502** | **0.2254** | | **1,174.9857** |

## 3.2 Demolition - 2018

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 8.1400e-003 | 0.2620 | 0.0572 | 6.4000e-004 | 0.0140 | 1.0000e-003 | 0.0150 | 3.8300e-003 | 9.6000e-004 | 4.7900e-003 | | 68.8771 | 68.8771 | 5.0100e-003 | | 69.0023 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0612 | 0.0462 | 0.4973 | 1.1900e-003 | 0.1118 | 1.0000e-003 | 0.1128 | 0.0296 | 9.2000e-004 | 0.0306 | | 118.0576 | 118.0576 | 4.4400e-003 | | 118.1687 |
| **Total** | **0.0693** | **0.3082** | **0.5545** | **1.8300e-003** | **0.1258** | **2.0000e-003** | **0.1278** | **0.0335** | **1.8800e-003** | **0.0354** | | **186.9347** | **186.9347** | **9.4500e-003** | | **187.1710** |

## 3.3 Site Preparation - 2018

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7858 | 9.7572 | 4.2514 | 9.7600e-003 | | 0.4180 | 0.4180 | | 0.3846 | 0.3846 | | 982.7113 | 982.7113 | 0.3059 | | 990.3596 |
| **Total** | **0.7858** | **9.7572** | **4.2514** | **9.7600e-003** | **0.5303** | **0.4180** | **0.9483** | **0.0573** | **0.3846** | **0.4418** | | **982.7113** | **982.7113** | **0.3059** | | **990.3596** |

## 3.3 Site Preparation - 2018

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0306 | 0.0231 | 0.2486 | 5.9000e-004 | 0.0559 | 5.0000e-004 | 0.0564 | 0.0148 | 4.6000e-004 | 0.0153 | | 59.0288 | 59.0288 | 2.2200e-003 | | 59.0843 |
| **Total** | **0.0306** | **0.0231** | **0.2486** | **5.9000e-004** | **0.0559** | **5.0000e-004** | **0.0564** | **0.0148** | **4.6000e-004** | **0.0153** | | **59.0288** | **59.0288** | **2.2200e-003** | | **59.0843** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.2386 | 0.0000 | 0.2386 | 0.0258 | 0.0000 | 0.0258 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7858 | 9.7572 | 4.2514 | 9.7600e-003 | | 0.4180 | 0.4180 | | 0.3846 | 0.3846 | 0.0000 | 982.7113 | 982.7113 | 0.3059 | | 990.3596 |
| **Total** | **0.7858** | **9.7572** | **4.2514** | **9.7600e-003** | **0.2386** | **0.4180** | **0.6566** | **0.0258** | **0.3846** | **0.4103** | **0.0000** | **982.7113** | **982.7113** | **0.3059** | | **990.3596** |

## 3.3 Site Preparation - 2018

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0306 | 0.0231 | 0.2486 | 5.9000e-004 | 0.0559 | 5.0000e-004 | 0.0564 | 0.0148 | 4.6000e-004 | 0.0153 | | 59.0288 | 59.0288 | 2.2200e-003 | | 59.0843 |
| **Total** | **0.0306** | **0.0231** | **0.2486** | **5.9000e-004** | **0.0559** | **5.0000e-004** | **0.0564** | **0.0148** | **4.6000e-004** | **0.0153** | | **59.0288** | **59.0288** | **2.2200e-003** | | **59.0843** |

## 3.4 Grading - 2018

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.8073 | 0.0000 | 0.8073 | 0.4211 | 0.0000 | 0.4211 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0643 | 9.4295 | 7.7762 | 0.0120 | | 0.6228 | 0.6228 | | 0.5943 | 0.5943 | | 1,169.3502 | 1,169.3502 | 0.2254 | | 1,174.9857 |
| **Total** | **1.0643** | **9.4295** | **7.7762** | **0.0120** | **0.8073** | **0.6228** | **1.4301** | **0.4211** | **0.5943** | **1.0154** | | **1,169.3502** | **1,169.3502** | **0.2254** | | **1,174.9857** |

## 3.4 Grading - 2018

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3799 | 12.2263 | 2.6698 | 0.0298 | 0.6527 | 0.0468 | 0.6995 | 0.1789 | 0.0448 | 0.2237 | | 3,214.2625 | 3,214.2625 | 0.2338 | | 3,220.1080 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0612 | 0.0462 | 0.4973 | 1.1900e-003 | 0.1118 | 1.0000e-003 | 0.1128 | 0.0296 | 9.2000e-004 | 0.0306 | | 118.0576 | 118.0576 | 4.4400e-003 | | 118.1687 |
| **Total** | **0.4411** | **12.2724** | **3.1671** | **0.0309** | **0.7645** | **0.0478** | **0.8123** | **0.2086** | **0.0457** | **0.2542** | | **3,332.3201** | **3,332.3201** | **0.2383** | | **3,338.2767** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.3633 | 0.0000 | 0.3633 | 0.1895 | 0.0000 | 0.1895 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0643 | 9.4295 | 7.7762 | 0.0120 | | 0.6228 | 0.6228 | | 0.5943 | 0.5943 | 0.0000 | 1,169.3502 | 1,169.3502 | 0.2254 | | 1,174.9857 |
| **Total** | **1.0643** | **9.4295** | **7.7762** | **0.0120** | **0.3633** | **0.6228** | **0.9860** | **0.1895** | **0.5943** | **0.7838** | **0.0000** | **1,169.3502** | **1,169.3502** | **0.2254** | | **1,174.9857** |

## 3.4 Grading - 2018

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3799 | 12.2263 | 2.6698 | 0.0298 | 0.6527 | 0.0468 | 0.6995 | 0.1789 | 0.0448 | 0.2237 | | 3,214.2625 | 3,214.2625 | 0.2338 | | 3,220.1080 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0612 | 0.0462 | 0.4973 | 1.1900e-003 | 0.1118 | 1.0000e-003 | 0.1128 | 0.0296 | 9.2000e-004 | 0.0306 | | 118.0576 | 118.0576 | 4.4400e-003 | | 118.1687 |
| **Total** | **0.4411** | **12.2724** | **3.1671** | **0.0309** | **0.7645** | **0.0478** | **0.8123** | **0.2086** | **0.0457** | **0.2542** | | **3,332.3201** | **3,332.3201** | **0.2383** | | **3,338.2767** |

## 3.5 Building Construction - 2018

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0848 | 11.0316 | 7.7512 | 0.0114 | | 0.7087 | 0.7087 | | 0.6520 | 0.6520 | | 1,146.5323 | 1,146.5323 | 0.3569 | | 1,155.4555 |
| **Total** | **1.0848** | **11.0316** | **7.7512** | **0.0114** | | **0.7087** | **0.7087** | | **0.6520** | **0.6520** | | **1,146.5323** | **1,146.5323** | **0.3569** | | **1,155.4555** |

## 3.5 Building Construction - 2018

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0623 | 1.5969 | 0.4788 | 3.3500e-003 | 0.0832 | 0.0114 | 0.0946 | 0.0240 | 0.0109 | 0.0349 | | 356.3948 | 356.3948 | 0.0257 | | 357.0377 |
| Worker | 0.4036 | 0.3047 | 3.2820 | 7.8300e-003 | 0.7377 | 6.5800e-003 | 0.7443 | 0.1957 | 6.0600e-003 | 0.2017 | | 779.1801 | 779.1801 | 0.0293 | | 779.9132 |
| **Total** | **0.4659** | **1.9016** | **3.7608** | **0.0112** | **0.8209** | **0.0180** | **0.8389** | **0.2196** | **0.0170** | **0.2366** | | **1,135.5750** | **1,135.5750** | **0.0550** | | **1,136.9509** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0848 | 11.0316 | 7.7512 | 0.0114 | | 0.7087 | 0.7087 | | 0.6520 | 0.6520 | 0.0000 | 1,146.5323 | 1,146.5323 | 0.3569 | | 1,155.4555 |
| **Total** | **1.0848** | **11.0316** | **7.7512** | **0.0114** | | **0.7087** | **0.7087** | | **0.6520** | **0.6520** | **0.0000** | **1,146.5323** | **1,146.5323** | **0.3569** | | **1,155.4555** |

## 3.5 Building Construction - 2018

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0623 | 1.5969 | 0.4788 | 3.3500e-003 | 0.0832 | 0.0114 | 0.0946 | 0.0240 | 0.0109 | 0.0349 | | 356.3948 | 356.3948 | 0.0257 | | 357.0377 |
| Worker | 0.4036 | 0.3047 | 3.2820 | 7.8300e-003 | 0.7377 | 6.5800e-003 | 0.7443 | 0.1957 | 6.0600e-003 | 0.2017 | | 779.1801 | 779.1801 | 0.0293 | | 779.9132 |
| **Total** | **0.4659** | **1.9016** | **3.7608** | **0.0112** | **0.8209** | **0.0180** | **0.8389** | **0.2196** | **0.0170** | **0.2366** | | **1,135.5750** | **1,135.5750** | **0.0550** | | **1,136.9509** |

## 3.5 Building Construction - 2019

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9576 | 9.8207 | 7.5432 | 0.0114 | | 0.6054 | 0.6054 | | 0.5569 | 0.5569 | | 1,127.6696 | 1,127.6696 | 0.3568 | | 1,136.5892 |
| **Total** | **0.9576** | **9.8207** | **7.5432** | **0.0114** | | **0.6054** | **0.6054** | | **0.5569** | **0.5569** | | **1,127.6696** | **1,127.6696** | **0.3568** | | **1,136.5892** |

## 3.5 Building Construction - 2019

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0563 | 1.5065 | 0.4400 | 3.3100e-003 | 0.0832 | 9.7500e-003 | 0.0930 | 0.0240 | 9.3300e-003 | 0.0333 | | 352.6602 | 352.6602 | 0.0248 | | 353.2796 |
| Worker | 0.3655 | 0.2684 | 2.9203 | 7.5700e-003 | 0.7377 | 6.3600e-003 | 0.7441 | 0.1957 | 5.8600e-003 | 0.2015 | | 753.8063 | 753.8063 | 0.0259 | | 754.4546 |
| **Total** | **0.4218** | **1.7749** | **3.3604** | **0.0109** | **0.8209** | **0.0161** | **0.8371** | **0.2196** | **0.0152** | **0.2348** | | **1,106.4666** | **1,106.4666** | **0.0507** | | **1,107.7342** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9576 | 9.8207 | 7.5432 | 0.0114 | | 0.6054 | 0.6054 | | 0.5569 | 0.5569 | 0.0000 | 1,127.6696 | 1,127.6696 | 0.3568 | | 1,136.5892 |
| **Total** | **0.9576** | **9.8207** | **7.5432** | **0.0114** | | **0.6054** | **0.6054** | | **0.5569** | **0.5569** | **0.0000** | **1,127.6696** | **1,127.6696** | **0.3568** | | **1,136.5892** |

## 3.5 Building Construction - 2019

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0563 | 1.5065 | 0.4400 | 3.3100e-003 | 0.0832 | 9.7500e-003 | 0.0930 | 0.0240 | 9.3300e-003 | 0.0333 | | 352.6602 | 352.6602 | 0.0248 | | 353.2796 |
| Worker | 0.3655 | 0.2684 | 2.9203 | 7.5700e-003 | 0.7377 | 6.3600e-003 | 0.7441 | 0.1957 | 5.8600e-003 | 0.2015 | | 753.8063 | 753.8063 | 0.0259 | | 754.4546 |
| **Total** | **0.4218** | **1.7749** | **3.3604** | **0.0109** | **0.8209** | **0.0161** | **0.8371** | **0.2196** | **0.0152** | **0.2348** | | **1,106.4666** | **1,106.4666** | **0.0507** | | **1,107.7342** |

## 3.5 Building Construction - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.8617 | 8.8523 | 7.3875 | 0.0114 | | 0.5224 | 0.5224 | | 0.4806 | 0.4806 | | 1,102.9781 | 1,102.9781 | 0.3567 | | 1,111.8962 |
| **Total** | **0.8617** | **8.8523** | **7.3875** | **0.0114** | | **0.5224** | **0.5224** | | **0.4806** | **0.4806** | | **1,102.9781** | **1,102.9781** | **0.3567** | | **1,111.8962** |

## 3.5 Building Construction - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0483 | 1.3826 | 0.3996 | 3.2800e-003 | 0.0832 | 6.6100e-003 | 0.0898 | 0.0240 | 6.3200e-003 | 0.0303 | | 350.2838 | 350.2838 | 0.0234 | | 350.8694 |
| Worker | 0.3373 | 0.2392 | 2.6467 | 7.3400e-003 | 0.7377 | 6.1700e-003 | 0.7439 | 0.1957 | 5.6800e-003 | 0.2013 | | 730.8975 | 730.8975 | 0.0230 | | 731.4734 |
| **Total** | **0.3856** | **1.6218** | **3.0463** | **0.0106** | **0.8210** | **0.0128** | **0.8337** | **0.2196** | **0.0120** | **0.2316** | | **1,081.1812** | **1,081.1812** | **0.0465** | | **1,082.3428** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.8617 | 8.8523 | 7.3875 | 0.0114 | | 0.5224 | 0.5224 | | 0.4806 | 0.4806 | 0.0000 | 1,102.9781 | 1,102.9781 | 0.3567 | | 1,111.8962 |
| **Total** | **0.8617** | **8.8523** | **7.3875** | **0.0114** | | **0.5224** | **0.5224** | | **0.4806** | **0.4806** | **0.0000** | **1,102.9781** | **1,102.9781** | **0.3567** | | **1,111.8962** |

## 3.5 Building Construction - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0483 | 1.3826 | 0.3996 | 3.2800e-003 | 0.0832 | 6.6100e-003 | 0.0898 | 0.0240 | 6.3200e-003 | 0.0303 | | 350.2838 | 350.2838 | 0.0234 | | 350.8694 |
| Worker | 0.3373 | 0.2392 | 2.6467 | 7.3400e-003 | 0.7377 | 6.1700e-003 | 0.7439 | 0.1957 | 5.6800e-003 | 0.2013 | | 730.8975 | 730.8975 | 0.0230 | | 731.4734 |
| **Total** | **0.3856** | **1.6218** | **3.0463** | **0.0106** | **0.8210** | **0.0128** | **0.8337** | **0.2196** | **0.0120** | **0.2316** | | **1,081.1812** | **1,081.1812** | **0.0465** | | **1,082.3428** |

## 3.6 Paving - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.7716 | 7.2266 | 7.1128 | 0.0113 | | 0.3950 | 0.3950 | | 0.3669 | 0.3669 | | 1,035.3926 | 1,035.3926 | 0.3016 | | 1,042.9323 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.7716** | **7.2266** | **7.1128** | **0.0113** | | **0.3950** | **0.3950** | | **0.3669** | **0.3669** | | **1,035.3926** | **1,035.3926** | **0.3016** | | **1,042.9323** |

## 3.6 Paving - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0920 | 0.0652 | 0.7218 | 2.0000e-003 | 0.2012 | 1.6800e-003 | 0.2029 | 0.0534 | 1.5500e-003 | 0.0549 | | 199.3357 | 199.3357 | 6.2800e-003 | | 199.4927 |
| **Total** | **0.0920** | **0.0652** | **0.7218** | **2.0000e-003** | **0.2012** | **1.6800e-003** | **0.2029** | **0.0534** | **1.5500e-003** | **0.0549** | | **199.3357** | **199.3357** | **6.2800e-003** | | **199.4927** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.7716 | 7.2266 | 7.1128 | 0.0113 | | 0.3950 | 0.3950 | | 0.3669 | 0.3669 | 0.0000 | 1,035.3926 | 1,035.3926 | 0.3016 | | 1,042.9323 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.7716** | **7.2266** | **7.1128** | **0.0113** | | **0.3950** | **0.3950** | | **0.3669** | **0.3669** | **0.0000** | **1,035.3926** | **1,035.3926** | **0.3016** | | **1,042.9323** |

## 3.6 Paving - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0920 | 0.0652 | 0.7218 | 2.0000e-003 | 0.2012 | 1.6800e-003 | 0.2029 | 0.0534 | 1.5500e-003 | 0.0549 | | 199.3357 | 199.3357 | 6.2800e-003 | | 199.4927 |
| **Total** | **0.0920** | **0.0652** | **0.7218** | **2.0000e-003** | **0.2012** | **1.6800e-003** | **0.2029** | **0.0534** | **1.5500e-003** | **0.0549** | | **199.3357** | **199.3357** | **6.2800e-003** | | **199.4927** |

## 3.7 Architectural Coating - 2019

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 1.6009 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2664 | 1.8354 | 1.8413 | 2.9700e-003 | | 0.1288 | 0.1288 | | 0.1288 | 0.1288 | | 281.4481 | 281.4481 | 0.0238 | | 282.0423 |
| **Total** | **1.8673** | **1.8354** | **1.8413** | **2.9700e-003** | | **0.1288** | **0.1288** | | **0.1288** | **0.1288** | | **281.4481** | **281.4481** | **0.0238** | | **282.0423** |

## 3.7 Architectural Coating - 2019

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0720 | 0.0529 | 0.5752 | 1.4900e-003 | 0.1453 | 1.2500e-003 | 0.1466 | 0.0385 | 1.1500e-003 | 0.0397 | | 148.4770 | 148.4770 | 5.1100e-003 | | 148.6047 |
| **Total** | **0.0720** | **0.0529** | **0.5752** | **1.4900e-003** | **0.1453** | **1.2500e-003** | **0.1466** | **0.0385** | **1.1500e-003** | **0.0397** | | **148.4770** | **148.4770** | **5.1100e-003** | | **148.6047** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 1.6009 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2664 | 1.8354 | 1.8413 | 2.9700e-003 | | 0.1288 | 0.1288 | | 0.1288 | 0.1288 | 0.0000 | 281.4481 | 281.4481 | 0.0238 | | 282.0423 |
| **Total** | **1.8673** | **1.8354** | **1.8413** | **2.9700e-003** | | **0.1288** | **0.1288** | | **0.1288** | **0.1288** | **0.0000** | **281.4481** | **281.4481** | **0.0238** | | **282.0423** |

## 3.7 Architectural Coating - 2019

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0720 | 0.0529 | 0.5752 | 1.4900e-003 | 0.1453 | 1.2500e-003 | 0.1466 | 0.0385 | 1.1500e-003 | 0.0397 | | 148.4770 | 148.4770 | 5.1100e-003 | | 148.6047 |
| **Total** | **0.0720** | **0.0529** | **0.5752** | **1.4900e-003** | **0.1453** | **1.2500e-003** | **0.1466** | **0.0385** | **1.1500e-003** | **0.0397** | | **148.4770** | **148.4770** | **5.1100e-003** | | **148.6047** |

## 3.7 Architectural Coating - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 1.6009 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | | 0.1109 | 0.1109 | | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |
| **Total** | **1.8430** | **1.6838** | **1.8314** | **2.9700e-003** | | **0.1109** | **0.1109** | | **0.1109** | **0.1109** | | **281.4481** | **281.4481** | **0.0218** | | **281.9928** |

## 3.7 Architectural Coating - 2020

**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0664 | 0.0471 | 0.5213 | 1.4500e-003 | 0.1453 | 1.2100e-003 | 0.1465 | 0.0385 | 1.1200e-003 | 0.0397 | | 143.9647 | 143.9647 | 4.5400e-003 | | 144.0781 |
| **Total** | **0.0664** | **0.0471** | **0.5213** | **1.4500e-003** | **0.1453** | **1.2100e-003** | **0.1465** | **0.0385** | **1.1200e-003** | **0.0397** | | **143.9647** | **143.9647** | **4.5400e-003** | | **144.0781** |

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 1.6009 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | | 0.1109 | 0.1109 | 0.0000 | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |
| **Total** | **1.8430** | **1.6838** | **1.8314** | **2.9700e-003** | | **0.1109** | **0.1109** | | **0.1109** | **0.1109** | **0.0000** | **281.4481** | **281.4481** | **0.0218** | | **281.9928** |

## 3.7 Architectural Coating - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0664 | 0.0471 | 0.5213 | 1.4500e-003 | 0.1453 | 1.2100e-003 | 0.1465 | 0.0385 | 1.1200e-003 | 0.0397 | | 143.9647 | 143.9647 | 4.5400e-003 | | 144.0781 |
| **Total** | **0.0664** | **0.0471** | **0.5213** | **1.4500e-003** | **0.1453** | **1.2100e-003** | **0.1465** | **0.0385** | **1.1200e-003** | **0.0397** | | **143.9647** | **143.9647** | **4.5400e-003** | | **144.0781** |

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.7596 | 3.7780 | 10.1830 | 0.0352 | 2.9280 | 0.0306 | 2.9587 | 0.7836 | 0.0286 | 0.8122 | | 3,581.3002 | 3,581.3002 | 0.1945 | | 3,586.1638 |
| Unmitigated | 0.7596 | 3.7780 | 10.1830 | 0.0352 | 2.9280 | 0.0306 | 2.9587 | 0.7836 | 0.0286 | 0.8122 | | 3,581.3002 | 3,581.3002 | 0.1945 | | 3,586.1638 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 402.96 | 402.96 | 402.96 | 1,376,976 | 1,376,976 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| Total | 402.96 | 402.96 | 402.96 | 1,376,976 | 1,376,976 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | 0.547192 | 0.045177 | 0.202743 | 0.121510 | 0.016147 | 0.006143 | 0.019743 | 0.029945 | 0.002479 | 0.002270 | 0.005078 | 0.000682 | 0.000891 |
| Enclosed Parking with Elevator | 0.547192 | 0.045177 | 0.202743 | 0.121510 | 0.016147 | 0.006143 | 0.019743 | 0.029945 | 0.002479 | 0.002270 | 0.005078 | 0.000682 | 0.000891 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0203 | 0.1730 | 0.0736 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | | 220.8898 | 220.8898 | 4.2300e-003 | 4.0500e-003 | 222.2024 |
| NaturalGas Unmitigated | 0.0241 | 0.2057 | 0.0875 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 262.5861 | 262.5861 | 5.0300e-003 | 4.8100e-003 | 264.1465 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 2231.98 | 0.0241 | 0.2057 | 0.0875 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 262.5861 | 262.5861 | 5.0300e-003 | 4.8100e-003 | 264.1465 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0241** | **0.2057** | **0.0875** | **1.3100e-003** | | **0.0166** | **0.0166** | | **0.0166** | **0.0166** | | **262.5861** | **262.5861** | **5.0300e-003** | **4.8100e-003** | **264.1465** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 1.87756 | 0.0203 | 0.1730 | 0.0736 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | | 220.8898 | 220.8898 | 4.2300e-003 | 4.0500e-003 | 222.2024 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0203** | **0.1730** | **0.0736** | **1.1000e-003** | | **0.0140** | **0.0140** | | **0.0140** | **0.0140** | | **220.8898** | **220.8898** | **4.2300e-003** | **4.0500e-003** | **222.2024** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.4743 | 0.0698 | 6.0437 | 3.2000e-004 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | 0.0000 | 10.8614 | 10.8614 | 0.0106 | 0.0000 | 11.1253 |
| Unmitigated | 1.4743 | 0.0698 | 6.0437 | 3.2000e-004 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | 0.0000 | 10.8614 | 10.8614 | 0.0106 | 0.0000 | 11.1253 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.1031 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.1876 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.1836 | 0.0698 | 6.0437 | 3.2000e-004 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | | 10.8614 | 10.8614 | 0.0106 | | 11.1253 |
| **Total** | **1.4743** | **0.0698** | **6.0437** | **3.2000e-004** | | **0.0333** | **0.0333** | | **0.0333** | **0.0333** | **0.0000** | **10.8614** | **10.8614** | **0.0106** | **0.0000** | **11.1253** |

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.1031 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.1876 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.1836 | 0.0698 | 6.0437 | 3.2000e-004 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | | 10.8614 | 10.8614 | 0.0106 | | 11.1253 |
| **Total** | **1.4743** | **0.0698** | **6.0437** | **3.2000e-004** | | **0.0333** | **0.0333** | | **0.0333** | **0.0333** | **0.0000** | **10.8614** | **10.8614** | **0.0106** | **0.0000** | **11.1253** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

# 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

## 10.0 Stationary Equipment

**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

**User Defined Equipment**

| Equipment Type | Number |
|---|---|

## 11.0 Vegetation

# 505-517 West 31st Street - Proposed Project

**Los Angeles-South Coast County, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Apartments Mid Rise | 73.00 | Dwelling Unit | 0.47 | 59,390.00 | 209 |
| Enclosed Parking with Elevator | 78.00 | Space | 0.00 | 32,960.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 33 |
| **Climate Zone** | 11 | | | **Operational Year** | 2021 |
| **Utility Company** | Southern California Edison | | | | |
| **CO2 Intensity (lb/MWhr)** | 702.44 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project description; 59,390 sf residential on 0.47 acres; two levels of parking (16,480 sf * 2 = 32,960 sf)

Construction Phase - 2 years of construction; grading phase extended for subterranean garage; architectural coating typically begins halfway during construction

Grading - Project description: 7,166 cubic yards of soil exported (from PD) on 0.47 acre site.

Demolition - Demolition of existing structure, approximately 50 ft x 35 ft = 1,750 sf

Architectural Coating - SCAQMD Rule 1113 assumed VOC content of 50 g/L

Vehicle Trips - Traffic study: market-rate apts receive 15% credit; [(67 market-rate DU * 6.65 market-rate trips/DU * 0.85) + (6 affordable DU * 4.08 affordable trips/DU)] / 73 DU = 5.52 trips/DU

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - SCAMQD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Land Use Mitigation -

Energy Mitigation - 2016 Title 24 exceeds 2013 standards by 28%

Waste Mitigation - City of Los Angeles adopted 70% diversion rate goal by 2020, which would mean 60% on top of 50% baseline from AB939 (1-0.5*0.6=0.7=70%)

Woodstoves - No woodstoves or fireplaces in plans

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 100.00 | 50.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 100.00 | 50.00 |
| tblArchitecturalCoating | EF_Parking | 100.00 | 50.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 100 | 50 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 100 | 50 |
| tblAreaCoating | Area_EF_Parking | 100 | 50 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 40 | 0 |
| tblConstructionPhase | NumDays | 5.00 | 235.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 100.00 | 475.00 |
| tblConstructionPhase | NumDays | 2.00 | 24.00 |
| tblConstructionPhase | PhaseEndDate | 11/21/2018 | 5/22/2020 |
| tblConstructionPhase | PhaseEndDate | 11/7/2018 | 5/15/2020 |
| tblConstructionPhase | PhaseEndDate | 6/20/2018 | 7/20/2018 |
| tblConstructionPhase | PhaseEndDate | 11/14/2018 | 5/22/2020 |
| tblConstructionPhase | PhaseStartDate | 11/15/2018 | 7/1/2019 |
| tblConstructionPhase | PhaseStartDate | 6/21/2018 | 7/23/2018 |
| tblConstructionPhase | PhaseStartDate | 11/8/2018 | 5/18/2020 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 62.05 | 0.00 |
| tblFireplaces | NumberNoFireplace | 7.30 | 0.00 |
| tblFireplaces | NumberWood | 3.65 | 0.00 |
| tblGrading | AcresOfGrading | 0.00 | 0.47 |
| tblGrading | MaterialExported | 0.00 | 7,166.00 |
| tblLandUse | BuildingSpaceSquareFeet | 73,000.00 | 59,390.00 |
| tblLandUse | BuildingSpaceSquareFeet | 31,200.00 | 32,960.00 |
| tblLandUse | LandUseSquareFeet | 73,000.00 | 59,390.00 |
| tblLandUse | LandUseSquareFeet | 31,200.00 | 32,960.00 |
| tblLandUse | LotAcreage | 1.92 | 0.47 |
| tblLandUse | LotAcreage | 0.70 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2018 | 2021 |
| tblVehicleTrips | ST_TR | 6.39 | 5.52 |
| tblVehicleTrips | SU_TR | 5.86 | 5.52 |
| tblVehicleTrips | WD_TR | 6.65 | 5.52 |

| | | | |
|---|---|---|---|
| tblWoodstoves | NumberCatalytic | 3.65 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 3.65 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

**Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2018 | 1.5092 | 21.5323 | 11.7513 | 0.0435 | 1.5718 | 0.7265 | 2.2414 | 0.6297 | 0.6688 | 1.2688 | 0.0000 | 4,563.6803 | 4,563.6803 | 0.4552 | 0.0000 | 4,575.0593 |
| 2019 | 3.2735 | 13.4506 | 13.5928 | 0.0274 | 0.9663 | 0.7513 | 1.7176 | 0.2582 | 0.7019 | 0.9600 | 0.0000 | 2,729.8094 | 2,729.8094 | 0.4367 | 0.0000 | 2,740.7268 |
| 2020 | 3.1146 | 12.1776 | 13.0402 | 0.0271 | 0.9663 | 0.6472 | 1.6135 | 0.2582 | 0.6045 | 0.8627 | 0.0000 | 2,673.6874 | 2,673.6874 | 0.4298 | 0.0000 | 2,684.4320 |
| **Maximum** | **3.2735** | **21.5323** | **13.5928** | **0.0435** | **1.5718** | **0.7513** | **2.2414** | **0.6297** | **0.7019** | **1.2688** | **0.0000** | **4,563.6803** | **4,563.6803** | **0.4552** | **0.0000** | **4,575.0593** |

**Mitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2018 | 1.5092 | 21.5323 | 11.7513 | 0.0435 | 1.1278 | 0.7265 | 1.7974 | 0.3981 | 0.6688 | 1.0372 | 0.0000 | 4,563.6803 | 4,563.6803 | 0.4552 | 0.0000 | 4,575.0593 |
| 2019 | 3.2735 | 13.4506 | 13.5928 | 0.0274 | 0.9663 | 0.7513 | 1.7176 | 0.2582 | 0.7019 | 0.9600 | 0.0000 | 2,729.8094 | 2,729.8094 | 0.4367 | 0.0000 | 2,740.7268 |
| 2020 | 3.1146 | 12.1776 | 13.0402 | 0.0271 | 0.9663 | 0.6472 | 1.6135 | 0.2582 | 0.6045 | 0.8627 | 0.0000 | 2,673.6874 | 2,673.6874 | 0.4298 | 0.0000 | 2,684.4320 |
| **Maximum** | **3.2735** | **21.5323** | **13.5928** | **0.0435** | **1.1278** | **0.7513** | **1.7974** | **0.3981** | **0.7019** | **1.0372** | **0.0000** | **4,563.6803** | **4,563.6803** | **0.4552** | **0.0000** | **4,575.0593** |

505-517 West 31st Street - Proposed Project - Los Angeles-South Coast County, Summer

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **12.67** | **0.00** | **7.97** | **20.21** | **0.00** | **7.49** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.4743 | 0.0698 | 6.0437 | 3.2000e-004 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | 0.0000 | 10.8614 | 10.8614 | 0.0106 | 0.0000 | 11.1253 |
| Energy | 0.0241 | 0.2057 | 0.0875 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 262.5861 | 262.5861 | 5.0300e-003 | 4.8100e-003 | 264.1465 |
| Mobile | 0.7817 | 3.6809 | 10.7313 | 0.0370 | 2.9280 | 0.0305 | 2.9585 | 0.7836 | 0.0285 | 0.8121 | | 3,763.4222 | 3,763.4222 | 0.1954 | | 3,768.3075 |
| **Total** | **2.2801** | **3.9563** | **16.8625** | **0.0387** | **2.9280** | **0.0804** | **3.0084** | **0.7836** | **0.0784** | **0.8620** | **0.0000** | **4,036.8697** | **4,036.8697** | **0.2110** | **4.8100e-003** | **4,043.5793** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.4743 | 0.0698 | 6.0437 | 3.2000e-004 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | 0.0000 | 10.8614 | 10.8614 | 0.0106 | 0.0000 | 11.1253 |
| Energy | 0.0203 | 0.1730 | 0.0736 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | | 220.8898 | 220.8898 | 4.2300e-003 | 4.0500e-003 | 222.2024 |
| Mobile | 0.7817 | 3.6809 | 10.7313 | 0.0370 | 2.9280 | 0.0305 | 2.9585 | 0.7836 | 0.0285 | 0.8121 | | 3,763.4222 | 3,763.4222 | 0.1954 | | 3,768.3075 |
| **Total** | **2.2763** | **3.9236** | **16.8486** | **0.0384** | **2.9280** | **0.0778** | **3.0058** | **0.7836** | **0.0758** | **0.8594** | **0.0000** | **3,995.1733** | **3,995.1733** | **0.2102** | **4.0500e-003** | **4,001.6352** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.17** | **0.83** | **0.08** | **0.54** | **0.00** | **3.28** | **0.09** | **0.00** | **3.37** | **0.31** | **0.00** | **1.03** | **1.03** | **0.38** | **15.80** | **1.04** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 6/4/2018 | 6/15/2018 | 5 | 10 | |
| 2 | Site Preparation | Site Preparation | 6/16/2018 | 6/18/2018 | 5 | 1 | |
| 3 | Grading | Grading | 6/19/2018 | 7/20/2018 | 5 | 24 | |
| 4 | Building Construction | Building Construction | 7/23/2018 | 5/15/2020 | 5 | 475 | |
| 5 | Paving | Paving | 5/18/2020 | 5/22/2020 | 5 | 5 | |
| 6 | Architectural Coating | Architectural Coating | 7/1/2019 | 5/22/2020 | 5 | 235 | |

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 0.47**

**Acres of Paving: 0**

**Residential Indoor: 120,265; Residential Outdoor: 40,088; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,978 (Architectural Coating – sqft)**

**OffRoad Equipment**

505-517 West 31st Street - Proposed Project - Los Angeles-South Coast County, Summer

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 4 | 6.00 | 9 | 0.56 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Grading | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 6.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Paving | Pavers | 1 | 7.00 | 130 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 1 | 1.00 | 247 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 1.00 | 247 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

## Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Architectural Coating | 1 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 5 | 66.00 | 13.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Demolition | 4 | 10.00 | 0.00 | 8.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 896.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 2 | 5.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

## 3.2 Demolition - 2018

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.1723 | 0.0000 | 0.1723 | 0.0261 | 0.0000 | 0.0261 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0643 | 9.4295 | 7.7762 | 0.0120 | | 0.6228 | 0.6228 | | 0.5943 | 0.5943 | | 1,169.3502 | 1,169.3502 | 0.2254 | | 1,174.9857 |
| **Total** | **1.0643** | **9.4295** | **7.7762** | **0.0120** | **0.1723** | **0.6228** | **0.7950** | **0.0261** | **0.5943** | **0.6204** | | **1,169.3502** | **1,169.3502** | **0.2254** | | **1,174.9857** |

## 3.2 Demolition - 2018

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 7.9400e-003 | 0.2585 | 0.0535 | 6.5000e-004 | 0.0140 | 9.8000e-004 | 0.0150 | 3.8300e-003 | 9.4000e-004 | 4.7700e-003 | | 70.0492 | 70.0492 | 4.8200e-003 | | 70.1697 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0553 | 0.0417 | 0.5401 | 1.2600e-003 | 0.1118 | 1.0000e-003 | 0.1128 | 0.0296 | 9.2000e-004 | 0.0306 | | 125.3690 | 125.3690 | 4.7000e-003 | | 125.4865 |
| **Total** | **0.0632** | **0.3001** | **0.5936** | **1.9100e-003** | **0.1258** | **1.9800e-003** | **0.1277** | **0.0335** | **1.8600e-003** | **0.0353** | | **195.4182** | **195.4182** | **9.5200e-003** | | **195.6563** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.0775 | 0.0000 | 0.0775 | 0.0117 | 0.0000 | 0.0117 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0643 | 9.4295 | 7.7762 | 0.0120 | | 0.6228 | 0.6228 | | 0.5943 | 0.5943 | 0.0000 | 1,169.3502 | 1,169.3502 | 0.2254 | | 1,174.9857 |
| **Total** | **1.0643** | **9.4295** | **7.7762** | **0.0120** | **0.0775** | **0.6228** | **0.7003** | **0.0117** | **0.5943** | **0.6060** | **0.0000** | **1,169.3502** | **1,169.3502** | **0.2254** | | **1,174.9857** |

## 3.2 Demolition - 2018

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 7.9400e-003 | 0.2585 | 0.0535 | 6.5000e-004 | 0.0140 | 9.8000e-004 | 0.0150 | 3.8300e-003 | 9.4000e-004 | 4.7700e-003 | | 70.0492 | 70.0492 | 4.8200e-003 | | 70.1697 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0553 | 0.0417 | 0.5401 | 1.2600e-003 | 0.1118 | 1.0000e-003 | 0.1128 | 0.0296 | 9.2000e-004 | 0.0306 | | 125.3690 | 125.3690 | 4.7000e-003 | | 125.4865 |
| **Total** | **0.0632** | **0.3001** | **0.5936** | **1.9100e-003** | **0.1258** | **1.9800e-003** | **0.1277** | **0.0335** | **1.8600e-003** | **0.0353** | | **195.4182** | **195.4182** | **9.5200e-003** | | **195.6563** |

## 3.3 Site Preparation - 2018

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.5303 | 0.0000 | 0.5303 | 0.0573 | 0.0000 | 0.0573 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7858 | 9.7572 | 4.2514 | 9.7600e-003 | | 0.4180 | 0.4180 | | 0.3846 | 0.3846 | | 982.7113 | 982.7113 | 0.3059 | | 990.3596 |
| **Total** | **0.7858** | **9.7572** | **4.2514** | **9.7600e-003** | **0.5303** | **0.4180** | **0.9483** | **0.0573** | **0.3846** | **0.4418** | | **982.7113** | **982.7113** | **0.3059** | | **990.3596** |

## 3.3 Site Preparation - 2018

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0276 | 0.0209 | 0.2700 | 6.3000e-004 | 0.0559 | 5.0000e-004 | 0.0564 | 0.0148 | 4.6000e-004 | 0.0153 | | 62.6845 | 62.6845 | 2.3500e-003 | | 62.7433 |
| **Total** | **0.0276** | **0.0209** | **0.2700** | **6.3000e-004** | **0.0559** | **5.0000e-004** | **0.0564** | **0.0148** | **4.6000e-004** | **0.0153** | | **62.6845** | **62.6845** | **2.3500e-003** | | **62.7433** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.2386 | 0.0000 | 0.2386 | 0.0258 | 0.0000 | 0.0258 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.7858 | 9.7572 | 4.2514 | 9.7600e-003 | | 0.4180 | 0.4180 | | 0.3846 | 0.3846 | 0.0000 | 982.7113 | 982.7113 | 0.3059 | | 990.3596 |
| **Total** | **0.7858** | **9.7572** | **4.2514** | **9.7600e-003** | **0.2386** | **0.4180** | **0.6566** | **0.0258** | **0.3846** | **0.4103** | **0.0000** | **982.7113** | **982.7113** | **0.3059** | | **990.3596** |

## 3.3 Site Preparation - 2018

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0276 | 0.0209 | 0.2700 | 6.3000e-004 | 0.0559 | 5.0000e-004 | 0.0564 | 0.0148 | 4.6000e-004 | 0.0153 | | 62.6845 | 62.6845 | 2.3500e-003 | | 62.7433 |
| **Total** | **0.0276** | **0.0209** | **0.2700** | **6.3000e-004** | **0.0559** | **5.0000e-004** | **0.0564** | **0.0148** | **4.6000e-004** | **0.0153** | | **62.6845** | **62.6845** | **2.3500e-003** | | **62.7433** |

## 3.4 Grading - 2018

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.8073 | 0.0000 | 0.8073 | 0.4211 | 0.0000 | 0.4211 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0643 | 9.4295 | 7.7762 | 0.0120 | | 0.6228 | 0.6228 | | 0.5943 | 0.5943 | | 1,169.3502 | 1,169.3502 | 0.2254 | | 1,174.9857 |
| **Total** | **1.0643** | **9.4295** | **7.7762** | **0.0120** | **0.8073** | **0.6228** | **1.4301** | **0.4211** | **0.5943** | **1.0154** | | **1,169.3502** | **1,169.3502** | **0.2254** | | **1,174.9857** |

## 3.4 Grading - 2018

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3706 | 12.0611 | 2.4956 | 0.0303 | 0.6527 | 0.0459 | 0.6986 | 0.1789 | 0.0439 | 0.2228 | | 3,268.9611 | 3,268.9611 | 0.2250 | | 3,274.5871 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0553 | 0.0417 | 0.5401 | 1.2600e-003 | 0.1118 | 1.0000e-003 | 0.1128 | 0.0296 | 9.2000e-004 | 0.0306 | | 125.3690 | 125.3690 | 4.7000e-003 | | 125.4865 |
| **Total** | **0.4258** | **12.1028** | **3.0357** | **0.0315** | **0.7645** | **0.0469** | **0.8114** | **0.2086** | **0.0448** | **0.2534** | | **3,394.3300** | **3,394.3300** | **0.2297** | | **3,400.0736** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.3633 | 0.0000 | 0.3633 | 0.1895 | 0.0000 | 0.1895 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0643 | 9.4295 | 7.7762 | 0.0120 | | 0.6228 | 0.6228 | | 0.5943 | 0.5943 | 0.0000 | 1,169.3502 | 1,169.3502 | 0.2254 | | 1,174.9857 |
| **Total** | **1.0643** | **9.4295** | **7.7762** | **0.0120** | **0.3633** | **0.6228** | **0.9860** | **0.1895** | **0.5943** | **0.7838** | **0.0000** | **1,169.3502** | **1,169.3502** | **0.2254** | | **1,174.9857** |

## 3.4 Grading - 2018

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3706 | 12.0611 | 2.4956 | 0.0303 | 0.6527 | 0.0459 | 0.6986 | 0.1789 | 0.0439 | 0.2228 | | 3,268.9611 | 3,268.9611 | 0.2250 | | 3,274.5871 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0553 | 0.0417 | 0.5401 | 1.2600e-003 | 0.1118 | 1.0000e-003 | 0.1128 | 0.0296 | 9.2000e-004 | 0.0306 | | 125.3690 | 125.3690 | 4.7000e-003 | | 125.4865 |
| **Total** | **0.4258** | **12.1028** | **3.0357** | **0.0315** | **0.7645** | **0.0469** | **0.8114** | **0.2086** | **0.0448** | **0.2534** | | **3,394.3300** | **3,394.3300** | **0.2297** | | **3,400.0736** |

## 3.5 Building Construction - 2018

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0848 | 11.0316 | 7.7512 | 0.0114 | | 0.7087 | 0.7087 | | 0.6520 | 0.6520 | | 1,146.5323 | 1,146.5323 | 0.3569 | | 1,155.4555 |
| **Total** | **1.0848** | **11.0316** | **7.7512** | **0.0114** | | **0.7087** | **0.7087** | | **0.6520** | **0.6520** | | **1,146.5323** | **1,146.5323** | **0.3569** | | **1,155.4555** |

## 3.5 Building Construction - 2018

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0598 | 1.5933 | 0.4356 | 3.4400e-003 | 0.0832 | 0.0112 | 0.0945 | 0.0240 | 0.0107 | 0.0347 | | 366.1832 | 366.1832 | 0.0241 | | 366.7860 |
| Worker | 0.3646 | 0.2752 | 3.5645 | 8.3200e-003 | 0.7377 | 6.5800e-003 | 0.7443 | 0.1957 | 6.0600e-003 | 0.2017 | | 827.4353 | 827.4353 | 0.0310 | | 828.2112 |
| **Total** | **0.4244** | **1.8685** | **4.0001** | **0.0118** | **0.8209** | **0.0178** | **0.8388** | **0.2196** | **0.0168** | **0.2364** | | **1,193.6185** | **1,193.6185** | **0.0551** | | **1,194.9972** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0848 | 11.0316 | 7.7512 | 0.0114 | | 0.7087 | 0.7087 | | 0.6520 | 0.6520 | 0.0000 | 1,146.5323 | 1,146.5323 | 0.3569 | | 1,155.4555 |
| **Total** | **1.0848** | **11.0316** | **7.7512** | **0.0114** | | **0.7087** | **0.7087** | | **0.6520** | **0.6520** | **0.0000** | **1,146.5323** | **1,146.5323** | **0.3569** | | **1,155.4555** |

## 3.5 Building Construction - 2018

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0598 | 1.5933 | 0.4356 | 3.4400e-003 | 0.0832 | 0.0112 | 0.0945 | 0.0240 | 0.0107 | 0.0347 | | 366.1832 | 366.1832 | 0.0241 | | 366.7860 |
| Worker | 0.3646 | 0.2752 | 3.5645 | 8.3200e-003 | 0.7377 | 6.5800e-003 | 0.7443 | 0.1957 | 6.0600e-003 | 0.2017 | | 827.4353 | 827.4353 | 0.0310 | | 828.2112 |
| **Total** | **0.4244** | **1.8685** | **4.0001** | **0.0118** | **0.8209** | **0.0178** | **0.8388** | **0.2196** | **0.0168** | **0.2364** | | **1,193.6185** | **1,193.6185** | **0.0551** | | **1,194.9972** |

## 3.5 Building Construction - 2019

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9576 | 9.8207 | 7.5432 | 0.0114 | | 0.6054 | 0.6054 | | 0.5569 | 0.5569 | | 1,127.6696 | 1,127.6696 | 0.3568 | | 1,136.5892 |
| **Total** | **0.9576** | **9.8207** | **7.5432** | **0.0114** | | **0.6054** | **0.6054** | | **0.5569** | **0.5569** | | **1,127.6696** | **1,127.6696** | **0.3568** | | **1,136.5892** |

## 3.5 Building Construction - 2019

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0540 | 1.5045 | 0.3992 | 3.4000e-003 | 0.0832 | 9.5900e-003 | 0.0928 | 0.0240 | 9.1800e-003 | 0.0331 | | 362.4590 | 362.4590 | 0.0232 | | 363.0397 |
| Worker | 0.3297 | 0.2423 | 3.1823 | 8.0400e-003 | 0.7377 | 6.3600e-003 | 0.7441 | 0.1957 | 5.8600e-003 | 0.2015 | | 800.5489 | 800.5489 | 0.0275 | | 801.2363 |
| **Total** | **0.3837** | **1.7468** | **3.5815** | **0.0114** | **0.8209** | **0.0160** | **0.8369** | **0.2196** | **0.0150** | **0.2347** | | **1,163.0079** | **1,163.0079** | **0.0507** | | **1,164.2760** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9576 | 9.8207 | 7.5432 | 0.0114 | | 0.6054 | 0.6054 | | 0.5569 | 0.5569 | 0.0000 | 1,127.6696 | 1,127.6696 | 0.3568 | | 1,136.5892 |
| **Total** | **0.9576** | **9.8207** | **7.5432** | **0.0114** | | **0.6054** | **0.6054** | | **0.5569** | **0.5569** | **0.0000** | **1,127.6696** | **1,127.6696** | **0.3568** | | **1,136.5892** |

## 3.5 Building Construction - 2019

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0540 | 1.5045 | 0.3992 | 3.4000e-003 | 0.0832 | 9.5900e-003 | 0.0928 | 0.0240 | 9.1800e-003 | 0.0331 | | 362.4590 | 362.4590 | 0.0232 | | 363.0397 |
| Worker | 0.3297 | 0.2423 | 3.1823 | 8.0400e-003 | 0.7377 | 6.3600e-003 | 0.7441 | 0.1957 | 5.8600e-003 | 0.2015 | | 800.5489 | 800.5489 | 0.0275 | | 801.2363 |
| **Total** | **0.3837** | **1.7468** | **3.5815** | **0.0114** | **0.8209** | **0.0160** | **0.8369** | **0.2196** | **0.0150** | **0.2347** | | **1,163.0079** | **1,163.0079** | **0.0507** | | **1,164.2760** |

## 3.5 Building Construction - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.8617 | 8.8523 | 7.3875 | 0.0114 | | 0.5224 | 0.5224 | | 0.4806 | 0.4806 | | 1,102.9781 | 1,102.9781 | 0.3567 | | 1,111.8962 |
| **Total** | **0.8617** | **8.8523** | **7.3875** | **0.0114** | | **0.5224** | **0.5224** | | **0.4806** | **0.4806** | | **1,102.9781** | **1,102.9781** | **0.3567** | | **1,111.8962** |

## 3.5 Building Construction - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0462 | 1.3828 | 0.3623 | 3.3700e-003 | 0.0832 | 6.5100e-003 | 0.0897 | 0.0240 | 6.2300e-003 | 0.0302 | | 360.1321 | 360.1321 | 0.0220 | | 360.6815 |
| Worker | 0.3037 | 0.2161 | 2.8898 | 7.7900e-003 | 0.7377 | 6.1700e-003 | 0.7439 | 0.1957 | 5.6800e-003 | 0.2013 | | 776.2345 | 776.2345 | 0.0245 | | 776.8463 |
| **Total** | **0.3500** | **1.5989** | **3.2521** | **0.0112** | **0.8210** | **0.0127** | **0.8336** | **0.2196** | **0.0119** | **0.2315** | | **1,136.3666** | **1,136.3666** | **0.0465** | | **1,137.5278** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.8617 | 8.8523 | 7.3875 | 0.0114 | | 0.5224 | 0.5224 | | 0.4806 | 0.4806 | 0.0000 | 1,102.9781 | 1,102.9781 | 0.3567 | | 1,111.8962 |
| **Total** | **0.8617** | **8.8523** | **7.3875** | **0.0114** | | **0.5224** | **0.5224** | | **0.4806** | **0.4806** | **0.0000** | **1,102.9781** | **1,102.9781** | **0.3567** | | **1,111.8962** |

## 3.5 Building Construction - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0462 | 1.3828 | 0.3623 | 3.3700e-003 | 0.0832 | 6.5100e-003 | 0.0897 | 0.0240 | 6.2300e-003 | 0.0302 | | 360.1321 | 360.1321 | 0.0220 | | 360.6815 |
| Worker | 0.3037 | 0.2161 | 2.8898 | 7.7900e-003 | 0.7377 | 6.1700e-003 | 0.7439 | 0.1957 | 5.6800e-003 | 0.2013 | | 776.2345 | 776.2345 | 0.0245 | | 776.8463 |
| **Total** | **0.3500** | **1.5989** | **3.2521** | **0.0112** | **0.8210** | **0.0127** | **0.8336** | **0.2196** | **0.0119** | **0.2315** | | **1,136.3666** | **1,136.3666** | **0.0465** | | **1,137.5278** |

## 3.6 Paving - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.7716 | 7.2266 | 7.1128 | 0.0113 | | 0.3950 | 0.3950 | | 0.3669 | 0.3669 | | 1,035.3926 | 1,035.3926 | 0.3016 | | 1,042.9323 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.7716** | **7.2266** | **7.1128** | **0.0113** | | **0.3950** | **0.3950** | | **0.3669** | **0.3669** | | **1,035.3926** | **1,035.3926** | **0.3016** | | **1,042.9323** |

## 3.6 Paving - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0828 | 0.0589 | 0.7881 | 2.1300e-003 | 0.2012 | 1.6800e-003 | 0.2029 | 0.0534 | 1.5500e-003 | 0.0549 | | 211.7003 | 211.7003 | 6.6700e-003 | | 211.8672 |
| **Total** | **0.0828** | **0.0589** | **0.7881** | **2.1300e-003** | **0.2012** | **1.6800e-003** | **0.2029** | **0.0534** | **1.5500e-003** | **0.0549** | | **211.7003** | **211.7003** | **6.6700e-003** | | **211.8672** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.7716 | 7.2266 | 7.1128 | 0.0113 | | 0.3950 | 0.3950 | | 0.3669 | 0.3669 | 0.0000 | 1,035.3926 | 1,035.3926 | 0.3016 | | 1,042.9323 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.7716** | **7.2266** | **7.1128** | **0.0113** | | **0.3950** | **0.3950** | | **0.3669** | **0.3669** | **0.0000** | **1,035.3926** | **1,035.3926** | **0.3016** | | **1,042.9323** |

## 3.6 Paving - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0828 | 0.0589 | 0.7881 | 2.1300e-003 | 0.2012 | 1.6800e-003 | 0.2029 | 0.0534 | 1.5500e-003 | 0.0549 | | 211.7003 | 211.7003 | 6.6700e-003 | | 211.8672 |
| **Total** | **0.0828** | **0.0589** | **0.7881** | **2.1300e-003** | **0.2012** | **1.6800e-003** | **0.2029** | **0.0534** | **1.5500e-003** | **0.0549** | | **211.7003** | **211.7003** | **6.6700e-003** | | **211.8672** |

## 3.7 Architectural Coating - 2019

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 1.6009 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2664 | 1.8354 | 1.8413 | 2.9700e-003 | | 0.1288 | 0.1288 | | 0.1288 | 0.1288 | | 281.4481 | 281.4481 | 0.0238 | | 282.0423 |
| **Total** | **1.8673** | **1.8354** | **1.8413** | **2.9700e-003** | | **0.1288** | **0.1288** | | **0.1288** | **0.1288** | | **281.4481** | **281.4481** | **0.0238** | | **282.0423** |

## 3.7 Architectural Coating - 2019

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0649 | 0.0477 | 0.6268 | 1.5800e-003 | 0.1453 | 1.2500e-003 | 0.1466 | 0.0385 | 1.1500e-003 | 0.0397 | | 157.6839 | 157.6839 | 5.4200e-003 | | 157.8193 |
| **Total** | **0.0649** | **0.0477** | **0.6268** | **1.5800e-003** | **0.1453** | **1.2500e-003** | **0.1466** | **0.0385** | **1.1500e-003** | **0.0397** | | **157.6839** | **157.6839** | **5.4200e-003** | | **157.8193** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 1.6009 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2664 | 1.8354 | 1.8413 | 2.9700e-003 | | 0.1288 | 0.1288 | | 0.1288 | 0.1288 | 0.0000 | 281.4481 | 281.4481 | 0.0238 | | 282.0423 |
| **Total** | **1.8673** | **1.8354** | **1.8413** | **2.9700e-003** | | **0.1288** | **0.1288** | | **0.1288** | **0.1288** | **0.0000** | **281.4481** | **281.4481** | **0.0238** | | **282.0423** |

## 3.7 Architectural Coating - 2019

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0649 | 0.0477 | 0.6268 | 1.5800e-003 | 0.1453 | 1.2500e-003 | 0.1466 | 0.0385 | 1.1500e-003 | 0.0397 | | 157.6839 | 157.6839 | 5.4200e-003 | | 157.8193 |
| **Total** | **0.0649** | **0.0477** | **0.6268** | **1.5800e-003** | **0.1453** | **1.2500e-003** | **0.1466** | **0.0385** | **1.1500e-003** | **0.0397** | | **157.6839** | **157.6839** | **5.4200e-003** | | **157.8193** |

## 3.7 Architectural Coating - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 1.6009 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | | 0.1109 | 0.1109 | | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |
| **Total** | **1.8430** | **1.6838** | **1.8314** | **2.9700e-003** | | **0.1109** | **0.1109** | | **0.1109** | **0.1109** | | **281.4481** | **281.4481** | **0.0218** | | **281.9928** |

## 3.7 Architectural Coating - 2020

**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0598 | 0.0426 | 0.5692 | 1.5400e-003 | 0.1453 | 1.2100e-003 | 0.1465 | 0.0385 | 1.1200e-003 | 0.0397 | | 152.8947 | 152.8947 | 4.8200e-003 | | 153.0152 |
| **Total** | **0.0598** | **0.0426** | **0.5692** | **1.5400e-003** | **0.1453** | **1.2100e-003** | **0.1465** | **0.0385** | **1.1200e-003** | **0.0397** | | **152.8947** | **152.8947** | **4.8200e-003** | | **153.0152** |

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 1.6009 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | | 0.1109 | 0.1109 | 0.0000 | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |
| **Total** | **1.8430** | **1.6838** | **1.8314** | **2.9700e-003** | | **0.1109** | **0.1109** | | **0.1109** | **0.1109** | **0.0000** | **281.4481** | **281.4481** | **0.0218** | | **281.9928** |

## 3.7 Architectural Coating - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0598 | 0.0426 | 0.5692 | 1.5400e-003 | 0.1453 | 1.2100e-003 | 0.1465 | 0.0385 | 1.1200e-003 | 0.0397 | | 152.8947 | 152.8947 | 4.8200e-003 | | 153.0152 |
| **Total** | **0.0598** | **0.0426** | **0.5692** | **1.5400e-003** | **0.1453** | **1.2100e-003** | **0.1465** | **0.0385** | **1.1200e-003** | **0.0397** | | **152.8947** | **152.8947** | **4.8200e-003** | | **153.0152** |

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.7817 | 3.6809 | 10.7313 | 0.0370 | 2.9280 | 0.0305 | 2.9585 | 0.7836 | 0.0285 | 0.8121 | | 3,763.4222 | 3,763.4222 | 0.1954 | | 3,768.3075 |
| Unmitigated | 0.7817 | 3.6809 | 10.7313 | 0.0370 | 2.9280 | 0.0305 | 2.9585 | 0.7836 | 0.0285 | 0.8121 | | 3,763.4222 | 3,763.4222 | 0.1954 | | 3,768.3075 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 402.96 | 402.96 | 402.96 | 1,376,976 | 1,376,976 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| Total | 402.96 | 402.96 | 402.96 | 1,376,976 | 1,376,976 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | 0.547192 | 0.045177 | 0.202743 | 0.121510 | 0.016147 | 0.006143 | 0.019743 | 0.029945 | 0.002479 | 0.002270 | 0.005078 | 0.000682 | 0.000891 |
| Enclosed Parking with Elevator | 0.547192 | 0.045177 | 0.202743 | 0.121510 | 0.016147 | 0.006143 | 0.019743 | 0.029945 | 0.002479 | 0.002270 | 0.005078 | 0.000682 | 0.000891 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0203 | 0.1730 | 0.0736 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | | 220.8898 | 220.8898 | 4.2300e-003 | 4.0500e-003 | 222.2024 |
| NaturalGas Unmitigated | 0.0241 | 0.2057 | 0.0875 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 262.5861 | 262.5861 | 5.0300e-003 | 4.8100e-003 | 264.1465 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 2231.98 | 0.0241 | 0.2057 | 0.0875 | 1.3100e-003 | | 0.0166 | 0.0166 | | 0.0166 | 0.0166 | | 262.5861 | 262.5861 | 5.0300e-003 | 4.8100e-003 | 264.1465 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0241** | **0.2057** | **0.0875** | **1.3100e-003** | | **0.0166** | **0.0166** | | **0.0166** | **0.0166** | | **262.5861** | **262.5861** | **5.0300e-003** | **4.8100e-003** | **264.1465** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Mid Rise | 1.87756 | 0.0203 | 0.1730 | 0.0736 | 1.1000e-003 | | 0.0140 | 0.0140 | | 0.0140 | 0.0140 | | 220.8898 | 220.8898 | 4.2300e-003 | 4.0500e-003 | 222.2024 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0203** | **0.1730** | **0.0736** | **1.1000e-003** | | **0.0140** | **0.0140** | | **0.0140** | **0.0140** | | **220.8898** | **220.8898** | **4.2300e-003** | **4.0500e-003** | **222.2024** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.4743 | 0.0698 | 6.0437 | 3.2000e-004 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | 0.0000 | 10.8614 | 10.8614 | 0.0106 | 0.0000 | 11.1253 |
| Unmitigated | 1.4743 | 0.0698 | 6.0437 | 3.2000e-004 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | 0.0000 | 10.8614 | 10.8614 | 0.0106 | 0.0000 | 11.1253 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.1031 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.1876 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.1836 | 0.0698 | 6.0437 | 3.2000e-004 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | | 10.8614 | 10.8614 | 0.0106 | | 11.1253 |
| **Total** | **1.4743** | **0.0698** | **6.0437** | **3.2000e-004** | | **0.0333** | **0.0333** | | **0.0333** | **0.0333** | **0.0000** | **10.8614** | **10.8614** | **0.0106** | **0.0000** | **11.1253** |

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.1031 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.1876 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.1836 | 0.0698 | 6.0437 | 3.2000e-004 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | | 10.8614 | 10.8614 | 0.0106 | | 11.1253 |
| **Total** | **1.4743** | **0.0698** | **6.0437** | **3.2000e-004** | | **0.0333** | **0.0333** | | **0.0333** | **0.0333** | **0.0000** | **10.8614** | **10.8614** | **0.0106** | **0.0000** | **11.1253** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

# 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

## 10.0 Stationary Equipment

**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

**User Defined Equipment**

| Equipment Type | Number |
|---|---|

## 11.0 Vegetation

# 505-517 West 31st Street - Proposed Project

**Los Angeles-South Coast County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Apartments Mid Rise | 73.00 | Dwelling Unit | 0.47 | 59,390.00 | 209 |
| Enclosed Parking with Elevator | 78.00 | Space | 0.00 | 32,960.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 33 |
| **Climate Zone** | 11 | | | **Operational Year** | 2021 |
| **Utility Company** | Southern California Edison | | | | |
| **CO2 Intensity (lb/MWhr)** | 702.44 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project description; 59,390 sf residential on 0.47 acres; two levels of parking (16,480 sf * 2 = 32,960 sf)

Construction Phase - 2 years of construction; grading phase extended for subterranean garage; architectural coating typically begins halfway during construction

Grading - Project description: 7,166 cubic yards of soil exported (from PD) on 0.47 acre site.

Demolition - Demolition of existing structure, approximately 50 ft x 35 ft = 1,750 sf

Architectural Coating - SCAQMD Rule 1113 assumed VOC content of 50 g/L

Vehicle Trips - Traffic study: market-rate apts receive 15% credit; [(67 market-rate DU * 6.65 market-rate trips/DU * 0.85) + (6 affordable DU * 4.08 affordable trips/DU)] / 73 DU = 5.52 trips/DU

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating - SCAMQD Rule 1113

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Land Use Mitigation -

Energy Mitigation - 2016 Title 24 exceeds 2013 standards by 28%

Waste Mitigation - City of Los Angeles adopted 70% diversion rate goal by 2020, which would mean 60% on top of 50% baseline from AB939 (1-0.5*0.6=0.7=70%)

Woodstoves - No woodstoves or fireplaces in plans

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 100.00 | 50.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 100.00 | 50.00 |
| tblArchitecturalCoating | EF_Parking | 100.00 | 50.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 100 | 50 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 100 | 50 |
| tblAreaCoating | Area_EF_Parking | 100 | 50 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 40 | 0 |
| tblConstructionPhase | NumDays | 5.00 | 235.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 100.00 | 475.00 |
| tblConstructionPhase | NumDays | 2.00 | 24.00 |
| tblConstructionPhase | PhaseEndDate | 11/21/2018 | 5/22/2020 |
| tblConstructionPhase | PhaseEndDate | 11/7/2018 | 5/15/2020 |
| tblConstructionPhase | PhaseEndDate | 6/20/2018 | 7/20/2018 |
| tblConstructionPhase | PhaseEndDate | 11/14/2018 | 5/22/2020 |
| tblConstructionPhase | PhaseStartDate | 11/15/2018 | 7/1/2019 |
| tblConstructionPhase | PhaseStartDate | 6/21/2018 | 7/23/2018 |
| tblConstructionPhase | PhaseStartDate | 11/8/2018 | 5/18/2020 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 62.05 | 0.00 |
| tblFireplaces | NumberNoFireplace | 7.30 | 0.00 |
| tblFireplaces | NumberWood | 3.65 | 0.00 |
| tblGrading | AcresOfGrading | 0.00 | 0.47 |
| tblGrading | MaterialExported | 0.00 | 7,166.00 |
| tblLandUse | BuildingSpaceSquareFeet | 73,000.00 | 59,390.00 |
| tblLandUse | BuildingSpaceSquareFeet | 31,200.00 | 32,960.00 |
| tblLandUse | LandUseSquareFeet | 73,000.00 | 59,390.00 |
| tblLandUse | LandUseSquareFeet | 31,200.00 | 32,960.00 |
| tblLandUse | LotAcreage | 1.92 | 0.47 |
| tblLandUse | LotAcreage | 0.70 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2018 | 2021 |
| tblVehicleTrips | ST_TR | 6.39 | 5.52 |
| tblVehicleTrips | SU_TR | 5.86 | 5.52 |
| tblVehicleTrips | WD_TR | 6.65 | 5.52 |

| | | | |
|---|---|---|---|
| tblWoodstoves | NumberCatalytic | 3.65 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 3.65 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2018 | 0.1116 | 1.0694 | 0.8455 | 1.9100e-003 | 0.0672 | 0.0535 | 0.1207 | 0.0204 | 0.0496 | 0.0700 | 0.0000 | 177.0667 | 177.0667 | 0.0279 | 0.0000 | 177.7631 |
| 2019 | 0.3028 | 1.6427 | 1.5907 | 3.2200e-003 | 0.1145 | 0.0897 | 0.2041 | 0.0307 | 0.0832 | 0.1139 | 0.0000 | 292.5405 | 292.5405 | 0.0499 | 0.0000 | 293.7886 |
| 2020 | 0.1596 | 0.6223 | 0.6553 | 1.3500e-003 | 0.0473 | 0.0330 | 0.0803 | 0.0127 | 0.0308 | 0.0435 | 0.0000 | 120.6799 | 120.6799 | 0.0198 | 0.0000 | 121.1758 |
| **Maximum** | **0.3028** | **1.6427** | **1.5907** | **3.2200e-003** | **0.1145** | **0.0897** | **0.2041** | **0.0307** | **0.0832** | **0.1139** | **0.0000** | **292.5405** | **292.5405** | **0.0499** | **0.0000** | **293.7886** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2018 | 0.1116 | 1.0694 | 0.8455 | 1.9100e-003 | 0.0612 | 0.0535 | 0.1147 | 0.0175 | 0.0496 | 0.0671 | 0.0000 | 177.0666 | 177.0666 | 0.0279 | 0.0000 | 177.7630 |
| 2019 | 0.3028 | 1.6427 | 1.5907 | 3.2200e-003 | 0.1145 | 0.0897 | 0.2041 | 0.0307 | 0.0832 | 0.1139 | 0.0000 | 292.5403 | 292.5403 | 0.0499 | 0.0000 | 293.7884 |
| 2020 | 0.1596 | 0.6223 | 0.6553 | 1.3500e-003 | 0.0473 | 0.0330 | 0.0803 | 0.0127 | 0.0308 | 0.0435 | 0.0000 | 120.6798 | 120.6798 | 0.0198 | 0.0000 | 121.1757 |
| **Maximum** | **0.3028** | **1.6427** | **1.5907** | **3.2200e-003** | **0.1145** | **0.0897** | **0.2041** | **0.0307** | **0.0832** | **0.1139** | **0.0000** | **292.5403** | **292.5403** | **0.0499** | **0.0000** | **293.7884** |

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **2.60** | **0.00** | **1.47** | **4.51** | **0.00** | **1.27** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| **1** | **6-4-2018** | **9-3-2018** | 0.5423 | 0.5423 |
| **2** | **9-4-2018** | **12-3-2018** | 0.4700 | 0.4700 |
| **3** | **12-4-2018** | **3-3-2019** | 0.4321 | 0.4321 |
| **4** | **3-4-2019** | **6-3-2019** | 0.4248 | 0.4248 |
| **5** | **6-4-2019** | **9-3-2019** | 0.5127 | 0.5127 |
| **6** | **9-4-2019** | **12-3-2019** | 0.5453 | 0.5453 |
| **7** | **12-4-2019** | **3-3-2020** | 0.5137 | 0.5137 |
| **8** | **3-4-2020** | **6-3-2020** | 0.4230 | 0.4230 |
| | | **Highest** | 0.5453 | 0.5453 |

## 2.2 Overall Operational

**Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.2585 | 8.7200e-003 | 0.7555 | 4.0000e-005 | | 4.1600e-003 | 4.1600e-003 | | 4.1600e-003 | 4.1600e-003 | 0.0000 | 1.2317 | 1.2317 | 1.2000e-003 | 0.0000 | 1.2616 |
| Energy | 4.3900e-003 | 0.0375 | 0.0160 | 2.4000e-004 | | 3.0400e-003 | 3.0400e-003 | | 3.0400e-003 | 3.0400e-003 | 0.0000 | 212.2370 | 212.2370 | 7.8000e-003 | 2.2400e-003 | 213.0991 |
| Mobile | 0.1351 | 0.7005 | 1.8803 | 6.5000e-003 | 0.5226 | 5.5500e-003 | 0.5282 | 0.1401 | 5.1900e-003 | 0.1453 | 0.0000 | 599.5830 | 599.5830 | 0.0320 | 0.0000 | 600.3833 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.8164 | 0.0000 | 6.8164 | 0.4028 | 0.0000 | 16.8874 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.5089 | 30.3469 | 31.8558 | 0.1562 | 3.9200e-003 | 36.9295 |
| **Total** | **0.3980** | **0.7468** | **2.6517** | **6.7800e-003** | **0.5226** | **0.0128** | **0.5354** | **0.1401** | **0.0124** | **0.1525** | **8.3254** | **843.3985** | **851.7239** | **0.6001** | **6.1600e-003** | **868.5608** |

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.2585 | 8.7200e-003 | 0.7555 | 4.0000e-005 | | 4.1600e-003 | 4.1600e-003 | | 4.1600e-003 | 4.1600e-003 | 0.0000 | 1.2317 | 1.2317 | 1.2000e-003 | 0.0000 | 1.2616 |
| Energy | 3.7000e-003 | 0.0316 | 0.0134 | 2.0000e-004 | | 2.5500e-003 | 2.5500e-003 | | 2.5500e-003 | 2.5500e-003 | 0.0000 | 192.5432 | 192.5432 | 7.1400e-003 | 2.0000e-003 | 193.3185 |
| Mobile | 0.1351 | 0.7005 | 1.8803 | 6.5000e-003 | 0.5226 | 5.5500e-003 | 0.5282 | 0.1401 | 5.1900e-003 | 0.1453 | 0.0000 | 599.5830 | 599.5830 | 0.0320 | 0.0000 | 600.3833 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.7266 | 0.0000 | 2.7266 | 0.1611 | 0.0000 | 6.7550 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.5089 | 30.3469 | 31.8558 | 0.1562 | 3.9200e-003 | 36.9295 |
| **Total** | **0.3973** | **0.7408** | **2.6492** | **6.7400e-003** | **0.5226** | **0.0123** | **0.5349** | **0.1401** | **0.0119** | **0.1520** | **4.2355** | **823.7048** | **827.9403** | **0.3577** | **5.9200e-003** | **838.6478** |

| | **ROG** | **NOx** | **CO** | **SO2** | **Fugitive PM10** | **Exhaust PM10** | **PM10 Total** | **Fugitive PM2.5** | **Exhaust PM2.5** | **PM2.5 Total** | **Bio- CO2** | **NBio-CO2** | **Total CO2** | **CH4** | **N20** | **CO2e** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.17** | **0.80** | **0.10** | **0.59** | **0.00** | **3.84** | **0.09** | **0.00** | **3.95** | **0.32** | **49.13** | **2.34** | **2.79** | **40.39** | **3.90** | **3.44** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 6/4/2018 | 6/15/2018 | 5 | 10 | |
| 2 | Site Preparation | Site Preparation | 6/16/2018 | 6/18/2018 | 5 | 1 | |
| 3 | Grading | Grading | 6/19/2018 | 7/20/2018 | 5 | 24 | |
| 4 | Building Construction | Building Construction | 7/23/2018 | 5/15/2020 | 5 | 475 | |
| 5 | Paving | Paving | 5/18/2020 | 5/22/2020 | 5 | 5 | |
| 6 | Architectural Coating | Architectural Coating | 7/1/2019 | 5/22/2020 | 5 | 235 | |

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 0.47**

**Acres of Paving: 0**

**Residential Indoor: 120,265; Residential Outdoor: 40,088; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,978 (Architectural Coating – sqft)**

**<u>OffRoad Equipment</u>**

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| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 4 | 6.00 | 9 | 0.56 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Grading | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 1 | 4.00 | 231 | 0.29 |
| Building Construction | Forklifts | 2 | 6.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Paving | Pavers | 1 | 7.00 | 130 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 1 | 1.00 | 247 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 1.00 | 247 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 2 | 6.00 | 97 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

## Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Architectural Coating | 1 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 5 | 66.00 | 13.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Demolition | 4 | 10.00 | 0.00 | 8.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 4 | 10.00 | 0.00 | 896.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 2 | 5.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

## 3.2 Demolition - 2018

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 8.6000e-004 | 0.0000 | 8.6000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 5.3200e-003 | 0.0472 | 0.0389 | 6.0000e-005 | | 3.1100e-003 | 3.1100e-003 | | 2.9700e-003 | 2.9700e-003 | 0.0000 | 5.3041 | 5.3041 | 1.0200e-003 | 0.0000 | 5.3297 |
| **Total** | **5.3200e-003** | **0.0472** | **0.0389** | **6.0000e-005** | **8.6000e-004** | **3.1100e-003** | **3.9700e-003** | **1.3000e-004** | **2.9700e-003** | **3.1000e-003** | **0.0000** | **5.3041** | **5.3041** | **1.0200e-003** | **0.0000** | **5.3297** |

## 3.2 Demolition - 2018

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 4.0000e-005 | 1.3400e-003 | 2.8000e-004 | 0.0000 | 7.0000e-005 | 0.0000 | 7.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.3155 | 0.3155 | 2.0000e-005 | 0.0000 | 0.3161 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.8000e-004 | 2.4000e-004 | 2.5500e-003 | 1.0000e-005 | 5.5000e-004 | 0.0000 | 5.5000e-004 | 1.5000e-004 | 0.0000 | 1.5000e-004 | 0.0000 | 0.5444 | 0.5444 | 2.0000e-005 | 0.0000 | 0.5449 |
| **Total** | **3.2000e-004** | **1.5800e-003** | **2.8300e-003** | **1.0000e-005** | **6.2000e-004** | **0.0000** | **6.2000e-004** | **1.7000e-004** | **0.0000** | **1.7000e-004** | **0.0000** | **0.8599** | **0.8599** | **4.0000e-005** | **0.0000** | **0.8610** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 3.9000e-004 | 0.0000 | 3.9000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 5.3200e-003 | 0.0472 | 0.0389 | 6.0000e-005 | | 3.1100e-003 | 3.1100e-003 | | 2.9700e-003 | 2.9700e-003 | 0.0000 | 5.3041 | 5.3041 | 1.0200e-003 | 0.0000 | 5.3296 |
| **Total** | **5.3200e-003** | **0.0472** | **0.0389** | **6.0000e-005** | **3.9000e-004** | **3.1100e-003** | **3.5000e-003** | **6.0000e-005** | **2.9700e-003** | **3.0300e-003** | **0.0000** | **5.3041** | **5.3041** | **1.0200e-003** | **0.0000** | **5.3296** |

## 3.2 Demolition - 2018

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 4.0000e-005 | 1.3400e-003 | 2.8000e-004 | 0.0000 | 7.0000e-005 | 0.0000 | 7.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.3155 | 0.3155 | 2.0000e-005 | 0.0000 | 0.3161 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.8000e-004 | 2.4000e-004 | 2.5500e-003 | 1.0000e-005 | 5.5000e-004 | 0.0000 | 5.5000e-004 | 1.5000e-004 | 0.0000 | 1.5000e-004 | 0.0000 | 0.5444 | 0.5444 | 2.0000e-005 | 0.0000 | 0.5449 |
| **Total** | **3.2000e-004** | **1.5800e-003** | **2.8300e-003** | **1.0000e-005** | **6.2000e-004** | **0.0000** | **6.2000e-004** | **1.7000e-004** | **0.0000** | **1.7000e-004** | **0.0000** | **0.8599** | **0.8599** | **4.0000e-005** | **0.0000** | **0.8610** |

## 3.3 Site Preparation - 2018

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 2.7000e-004 | 0.0000 | 2.7000e-004 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.9000e-004 | 4.8800e-003 | 2.1300e-003 | 0.0000 | | 2.1000e-004 | 2.1000e-004 | | 1.9000e-004 | 1.9000e-004 | 0.0000 | 0.4458 | 0.4458 | 1.4000e-004 | 0.0000 | 0.4492 |
| **Total** | **3.9000e-004** | **4.8800e-003** | **2.1300e-003** | **0.0000** | **2.7000e-004** | **2.1000e-004** | **4.8000e-004** | **3.0000e-005** | **1.9000e-004** | **2.2000e-004** | **0.0000** | **0.4458** | **0.4458** | **1.4000e-004** | **0.0000** | **0.4492** |

## 3.3 Site Preparation - 2018

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.0000e-005 | 1.0000e-005 | 1.3000e-004 | 0.0000 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0272 | 0.0272 | 0.0000 | 0.0000 | 0.0273 |
| **Total** | **1.0000e-005** | **1.0000e-005** | **1.3000e-004** | **0.0000** | **3.0000e-005** | **0.0000** | **3.0000e-005** | **1.0000e-005** | **0.0000** | **1.0000e-005** | **0.0000** | **0.0272** | **0.0272** | **0.0000** | **0.0000** | **0.0273** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.2000e-004 | 0.0000 | 1.2000e-004 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.9000e-004 | 4.8800e-003 | 2.1300e-003 | 0.0000 | | 2.1000e-004 | 2.1000e-004 | | 1.9000e-004 | 1.9000e-004 | 0.0000 | 0.4458 | 0.4458 | 1.4000e-004 | 0.0000 | 0.4492 |
| **Total** | **3.9000e-004** | **4.8800e-003** | **2.1300e-003** | **0.0000** | **1.2000e-004** | **2.1000e-004** | **3.3000e-004** | **1.0000e-005** | **1.9000e-004** | **2.0000e-004** | **0.0000** | **0.4458** | **0.4458** | **1.4000e-004** | **0.0000** | **0.4492** |

## 3.3 Site Preparation - 2018

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.0000e-005 | 1.0000e-005 | 1.3000e-004 | 0.0000 | 3.0000e-005 | 0.0000 | 3.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 0.0000 | 0.0272 | 0.0272 | 0.0000 | 0.0000 | 0.0273 |
| **Total** | **1.0000e-005** | **1.0000e-005** | **1.3000e-004** | **0.0000** | **3.0000e-005** | **0.0000** | **3.0000e-005** | **1.0000e-005** | **0.0000** | **1.0000e-005** | **0.0000** | **0.0272** | **0.0272** | **0.0000** | **0.0000** | **0.0273** |

## 3.4 Grading - 2018

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 9.6900e-003 | 0.0000 | 9.6900e-003 | 5.0500e-003 | 0.0000 | 5.0500e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0128 | 0.1132 | 0.0933 | 1.4000e-004 | | 7.4700e-003 | 7.4700e-003 | | 7.1300e-003 | 7.1300e-003 | 0.0000 | 12.7298 | 12.7298 | 2.4500e-003 | 0.0000 | 12.7912 |
| **Total** | **0.0128** | **0.1132** | **0.0933** | **1.4000e-004** | **9.6900e-003** | **7.4700e-003** | **0.0172** | **5.0500e-003** | **7.1300e-003** | **0.0122** | **0.0000** | **12.7298** | **12.7298** | **2.4500e-003** | **0.0000** | **12.7912** |

## 3.4 Grading - 2018

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 4.4900e-003 | 0.1496 | 0.0309 | 3.6000e-004 | 7.7000e-003 | 5.6000e-004 | 8.2500e-003 | 2.1100e-003 | 5.3000e-004 | 2.6500e-003 | 0.0000 | 35.3365 | 35.3365 | 2.4900e-003 | 0.0000 | 35.3988 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 6.6000e-004 | 5.7000e-004 | 6.1200e-003 | 1.0000e-005 | 1.3100e-003 | 1.0000e-005 | 1.3300e-003 | 3.5000e-004 | 1.0000e-005 | 3.6000e-004 | 0.0000 | 1.3066 | 1.3066 | 5.0000e-005 | 0.0000 | 1.3078 |
| **Total** | **5.1500e-003** | **0.1502** | **0.0370** | **3.7000e-004** | **9.0100e-003** | **5.7000e-004** | **9.5800e-003** | **2.4600e-003** | **5.4000e-004** | **3.0100e-003** | **0.0000** | **36.6431** | **36.6431** | **2.5400e-003** | **0.0000** | **36.7066** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 4.3600e-003 | 0.0000 | 4.3600e-003 | 2.2700e-003 | 0.0000 | 2.2700e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0128 | 0.1132 | 0.0933 | 1.4000e-004 | | 7.4700e-003 | 7.4700e-003 | | 7.1300e-003 | 7.1300e-003 | 0.0000 | 12.7298 | 12.7298 | 2.4500e-003 | 0.0000 | 12.7911 |
| **Total** | **0.0128** | **0.1132** | **0.0933** | **1.4000e-004** | **4.3600e-003** | **7.4700e-003** | **0.0118** | **2.2700e-003** | **7.1300e-003** | **9.4000e-003** | **0.0000** | **12.7298** | **12.7298** | **2.4500e-003** | **0.0000** | **12.7911** |

## 3.4 Grading - 2018

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 4.4900e-003 | 0.1496 | 0.0309 | 3.6000e-004 | 7.7000e-003 | 5.6000e-004 | 8.2500e-003 | 2.1100e-003 | 5.3000e-004 | 2.6500e-003 | 0.0000 | 35.3365 | 35.3365 | 2.4900e-003 | 0.0000 | 35.3988 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 6.6000e-004 | 5.7000e-004 | 6.1200e-003 | 1.0000e-005 | 1.3100e-003 | 1.0000e-005 | 1.3300e-003 | 3.5000e-004 | 1.0000e-005 | 3.6000e-004 | 0.0000 | 1.3066 | 1.3066 | 5.0000e-005 | 0.0000 | 1.3078 |
| **Total** | **5.1500e-003** | **0.1502** | **0.0370** | **3.7000e-004** | **9.0100e-003** | **5.7000e-004** | **9.5800e-003** | **2.4600e-003** | **5.4000e-004** | **3.0100e-003** | **0.0000** | **36.6431** | **36.6431** | **2.5400e-003** | **0.0000** | **36.7066** |

## 3.5 Building Construction - 2018

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0629 | 0.6398 | 0.4496 | 6.6000e-004 | | 0.0411 | 0.0411 | | 0.0378 | 0.0378 | 0.0000 | 60.3268 | 60.3268 | 0.0188 | 0.0000 | 60.7963 |
| **Total** | **0.0629** | **0.6398** | **0.4496** | **6.6000e-004** | | **0.0411** | **0.0411** | | **0.0378** | **0.0378** | **0.0000** | **60.3268** | **60.3268** | **0.0188** | **0.0000** | **60.7963** |

## 3.5 Building Construction - 2018

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.5300e-003 | 0.0944 | 0.0266 | 2.0000e-004 | 4.7500e-003 | 6.6000e-004 | 5.4000e-003 | 1.3700e-003 | 6.3000e-004 | 2.0000e-003 | 0.0000 | 19.0511 | 19.0511 | 1.3100e-003 | 0.0000 | 19.0837 |
| Worker | 0.0212 | 0.0182 | 0.1952 | 4.6000e-004 | 0.0420 | 3.8000e-004 | 0.0423 | 0.0111 | 3.5000e-004 | 0.0115 | 0.0000 | 41.6791 | 41.6791 | 1.5700e-003 | 0.0000 | 41.7182 |
| **Total** | **0.0247** | **0.1126** | **0.2217** | **6.6000e-004** | **0.0467** | **1.0400e-003** | **0.0477** | **0.0125** | **9.8000e-004** | **0.0135** | **0.0000** | **60.7301** | **60.7301** | **2.8800e-003** | **0.0000** | **60.8020** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0629 | 0.6398 | 0.4496 | 6.6000e-004 | | 0.0411 | 0.0411 | | 0.0378 | 0.0378 | 0.0000 | 60.3267 | 60.3267 | 0.0188 | 0.0000 | 60.7962 |
| **Total** | **0.0629** | **0.6398** | **0.4496** | **6.6000e-004** | | **0.0411** | **0.0411** | | **0.0378** | **0.0378** | **0.0000** | **60.3267** | **60.3267** | **0.0188** | **0.0000** | **60.7962** |

## 3.5 Building Construction - 2018

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.5300e-003 | 0.0944 | 0.0266 | 2.0000e-004 | 4.7500e-003 | 6.6000e-004 | 5.4000e-003 | 1.3700e-003 | 6.3000e-004 | 2.0000e-003 | 0.0000 | 19.0511 | 19.0511 | 1.3100e-003 | 0.0000 | 19.0837 |
| Worker | 0.0212 | 0.0182 | 0.1952 | 4.6000e-004 | 0.0420 | 3.8000e-004 | 0.0423 | 0.0111 | 3.5000e-004 | 0.0115 | 0.0000 | 41.6791 | 41.6791 | 1.5700e-003 | 0.0000 | 41.7182 |
| **Total** | **0.0247** | **0.1126** | **0.2217** | **6.6000e-004** | **0.0467** | **1.0400e-003** | **0.0477** | **0.0125** | **9.8000e-004** | **0.0135** | **0.0000** | **60.7301** | **60.7301** | **2.8800e-003** | **0.0000** | **60.8020** |

## 3.5 Building Construction - 2019

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1250 | 1.2816 | 0.9844 | 1.4900e-003 | | 0.0790 | 0.0790 | | 0.0727 | 0.0727 | 0.0000 | 133.5021 | 133.5021 | 0.0422 | 0.0000 | 134.5581 |
| **Total** | **0.1250** | **1.2816** | **0.9844** | **1.4900e-003** | | **0.0790** | **0.0790** | | **0.0727** | **0.0727** | **0.0000** | **133.5021** | **133.5021** | **0.0422** | **0.0000** | **134.5581** |

## 3.5 Building Construction - 2019

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 7.1800e-003 | 0.2004 | 0.0548 | 4.4000e-004 | 0.0107 | 1.2600e-003 | 0.0120 | 3.0800e-003 | 1.2100e-003 | 4.2900e-003 | 0.0000 | 42.4234 | 42.4234 | 2.8300e-003 | 0.0000 | 42.4942 |
| Worker | 0.0431 | 0.0360 | 0.3910 | 1.0000e-003 | 0.0944 | 8.3000e-004 | 0.0952 | 0.0251 | 7.6000e-004 | 0.0258 | 0.0000 | 90.7257 | 90.7257 | 3.1200e-003 | 0.0000 | 90.8037 |
| **Total** | **0.0503** | **0.2364** | **0.4458** | **1.4400e-003** | **0.1051** | **2.0900e-003** | **0.1072** | **0.0282** | **1.9700e-003** | **0.0301** | **0.0000** | **133.1491** | **133.1491** | **5.9500e-003** | **0.0000** | **133.2979** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1250 | 1.2816 | 0.9844 | 1.4900e-003 | | 0.0790 | 0.0790 | | 0.0727 | 0.0727 | 0.0000 | 133.5020 | 133.5020 | 0.0422 | 0.0000 | 134.5579 |
| **Total** | **0.1250** | **1.2816** | **0.9844** | **1.4900e-003** | | **0.0790** | **0.0790** | | **0.0727** | **0.0727** | **0.0000** | **133.5020** | **133.5020** | **0.0422** | **0.0000** | **134.5579** |

## 3.5 Building Construction - 2019

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 7.1800e-003 | 0.2004 | 0.0548 | 4.4000e-004 | 0.0107 | 1.2600e-003 | 0.0120 | 3.0800e-003 | 1.2100e-003 | 4.2900e-003 | 0.0000 | 42.4234 | 42.4234 | 2.8300e-003 | 0.0000 | 42.4942 |
| Worker | 0.0431 | 0.0360 | 0.3910 | 1.0000e-003 | 0.0944 | 8.3000e-004 | 0.0952 | 0.0251 | 7.6000e-004 | 0.0258 | 0.0000 | 90.7257 | 90.7257 | 3.1200e-003 | 0.0000 | 90.8037 |
| **Total** | **0.0503** | **0.2364** | **0.4458** | **1.4400e-003** | **0.1051** | **2.0900e-003** | **0.1072** | **0.0282** | **1.9700e-003** | **0.0301** | **0.0000** | **133.1491** | **133.1491** | **5.9500e-003** | **0.0000** | **133.2979** |

## 3.5 Building Construction - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0422 | 0.4338 | 0.3620 | 5.6000e-004 | | 0.0256 | 0.0256 | | 0.0236 | 0.0236 | 0.0000 | 49.0296 | 49.0296 | 0.0159 | 0.0000 | 49.4261 |
| **Total** | **0.0422** | **0.4338** | **0.3620** | **5.6000e-004** | | **0.0256** | **0.0256** | | **0.0236** | **0.0236** | **0.0000** | **49.0296** | **49.0296** | **0.0159** | **0.0000** | **49.4261** |

## 3.5 Building Construction - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.3100e-003 | 0.0690 | 0.0187 | 1.6000e-004 | 4.0100e-003 | 3.2000e-004 | 4.3300e-003 | 1.1600e-003 | 3.1000e-004 | 1.4700e-003 | 0.0000 | 15.8248 | 15.8248 | 1.0100e-003 | 0.0000 | 15.8499 |
| Worker | 0.0149 | 0.0120 | 0.1331 | 3.7000e-004 | 0.0354 | 3.0000e-004 | 0.0357 | 9.4100e-003 | 2.8000e-004 | 9.6900e-003 | 0.0000 | 33.0305 | 33.0305 | 1.0400e-003 | 0.0000 | 33.0565 |
| **Total** | **0.0172** | **0.0811** | **0.1518** | **5.3000e-004** | **0.0395** | **6.2000e-004** | **0.0401** | **0.0106** | **5.9000e-004** | **0.0112** | **0.0000** | **48.8552** | **48.8552** | **2.0500e-003** | **0.0000** | **48.9064** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0422 | 0.4338 | 0.3620 | 5.6000e-004 | | 0.0256 | 0.0256 | | 0.0236 | 0.0236 | 0.0000 | 49.0296 | 49.0296 | 0.0159 | 0.0000 | 49.4260 |
| **Total** | **0.0422** | **0.4338** | **0.3620** | **5.6000e-004** | | **0.0256** | **0.0256** | | **0.0236** | **0.0236** | **0.0000** | **49.0296** | **49.0296** | **0.0159** | **0.0000** | **49.4260** |

## 3.5 Building Construction - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.3100e-003 | 0.0690 | 0.0187 | 1.6000e-004 | 4.0100e-003 | 3.2000e-004 | 4.3300e-003 | 1.1600e-003 | 3.1000e-004 | 1.4700e-003 | 0.0000 | 15.8248 | 15.8248 | 1.0100e-003 | 0.0000 | 15.8499 |
| Worker | 0.0149 | 0.0120 | 0.1331 | 3.7000e-004 | 0.0354 | 3.0000e-004 | 0.0357 | 9.4100e-003 | 2.8000e-004 | 9.6900e-003 | 0.0000 | 33.0305 | 33.0305 | 1.0400e-003 | 0.0000 | 33.0565 |
| **Total** | **0.0172** | **0.0811** | **0.1518** | **5.3000e-004** | **0.0395** | **6.2000e-004** | **0.0401** | **0.0106** | **5.9000e-004** | **0.0112** | **0.0000** | **48.8552** | **48.8552** | **2.0500e-003** | **0.0000** | **48.9064** |

## 3.6 Paving - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 1.9300e-003 | 0.0181 | 0.0178 | 3.0000e-005 | | 9.9000e-004 | 9.9000e-004 | | 9.2000e-004 | 9.2000e-004 | 0.0000 | 2.3482 | 2.3482 | 6.8000e-004 | 0.0000 | 2.3653 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **1.9300e-003** | **0.0181** | **0.0178** | **3.0000e-005** | | **9.9000e-004** | **9.9000e-004** | | **9.2000e-004** | **9.2000e-004** | **0.0000** | **2.3482** | **2.3482** | **6.8000e-004** | **0.0000** | **2.3653** |

## 3.6 Paving - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.1000e-004 | 1.7000e-004 | 1.8500e-003 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 5.0000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.4596 | 0.4596 | 1.0000e-005 | 0.0000 | 0.4600 |
| **Total** | **2.1000e-004** | **1.7000e-004** | **1.8500e-003** | **1.0000e-005** | **4.9000e-004** | **0.0000** | **5.0000e-004** | **1.3000e-004** | **0.0000** | **1.3000e-004** | **0.0000** | **0.4596** | **0.4596** | **1.0000e-005** | **0.0000** | **0.4600** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 1.9300e-003 | 0.0181 | 0.0178 | 3.0000e-005 | | 9.9000e-004 | 9.9000e-004 | | 9.2000e-004 | 9.2000e-004 | 0.0000 | 2.3482 | 2.3482 | 6.8000e-004 | 0.0000 | 2.3653 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **1.9300e-003** | **0.0181** | **0.0178** | **3.0000e-005** | | **9.9000e-004** | **9.9000e-004** | | **9.2000e-004** | **9.2000e-004** | **0.0000** | **2.3482** | **2.3482** | **6.8000e-004** | **0.0000** | **2.3653** |

## 3.6 Paving - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.1000e-004 | 1.7000e-004 | 1.8500e-003 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 5.0000e-004 | 1.3000e-004 | 0.0000 | 1.3000e-004 | 0.0000 | 0.4596 | 0.4596 | 1.0000e-005 | 0.0000 | 0.4600 |
| **Total** | **2.1000e-004** | **1.7000e-004** | **1.8500e-003** | **1.0000e-005** | **4.9000e-004** | **0.0000** | **5.0000e-004** | **1.3000e-004** | **0.0000** | **1.3000e-004** | **0.0000** | **0.4596** | **0.4596** | **1.0000e-005** | **0.0000** | **0.4600** |

## 3.7 Architectural Coating - 2019

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.1057 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0176 | 0.1211 | 0.1215 | 2.0000e-004 | | 8.5000e-003 | 8.5000e-003 | | 8.5000e-003 | 8.5000e-003 | 0.0000 | 16.8515 | 16.8515 | 1.4200e-003 | 0.0000 | 16.8871 |
| **Total** | **0.1233** | **0.1211** | **0.1215** | **2.0000e-004** | | **8.5000e-003** | **8.5000e-003** | | **8.5000e-003** | **8.5000e-003** | **0.0000** | **16.8515** | **16.8515** | **1.4200e-003** | **0.0000** | **16.8871** |

## 3.7 Architectural Coating - 2019

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3000e-003 | 3.5800e-003 | 0.0390 | 1.0000e-004 | 9.4000e-003 | 8.0000e-005 | 9.4800e-003 | 2.5000e-003 | 8.0000e-005 | 2.5700e-003 | 0.0000 | 9.0378 | 9.0378 | 3.1000e-004 | 0.0000 | 9.0456 |
| **Total** | **4.3000e-003** | **3.5800e-003** | **0.0390** | **1.0000e-004** | **9.4000e-003** | **8.0000e-005** | **9.4800e-003** | **2.5000e-003** | **8.0000e-005** | **2.5700e-003** | **0.0000** | **9.0378** | **9.0378** | **3.1000e-004** | **0.0000** | **9.0456** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.1057 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0176 | 0.1211 | 0.1215 | 2.0000e-004 | | 8.5000e-003 | 8.5000e-003 | | 8.5000e-003 | 8.5000e-003 | 0.0000 | 16.8515 | 16.8515 | 1.4200e-003 | 0.0000 | 16.8870 |
| **Total** | **0.1233** | **0.1211** | **0.1215** | **2.0000e-004** | | **8.5000e-003** | **8.5000e-003** | | **8.5000e-003** | **8.5000e-003** | **0.0000** | **16.8515** | **16.8515** | **1.4200e-003** | **0.0000** | **16.8870** |

## 3.7 Architectural Coating - 2019

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3000e-003 | 3.5800e-003 | 0.0390 | 1.0000e-004 | 9.4000e-003 | 8.0000e-005 | 9.4800e-003 | 2.5000e-003 | 8.0000e-005 | 2.5700e-003 | 0.0000 | 9.0378 | 9.0378 | 3.1000e-004 | 0.0000 | 9.0456 |
| **Total** | **4.3000e-003** | **3.5800e-003** | **0.0390** | **1.0000e-004** | **9.4000e-003** | **8.0000e-005** | **9.4800e-003** | **2.5000e-003** | **8.0000e-005** | **2.5700e-003** | **0.0000** | **9.0378** | **9.0378** | **3.1000e-004** | **0.0000** | **9.0456** |

## 3.7 Architectural Coating - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.0824 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0125 | 0.0867 | 0.0943 | 1.5000e-004 | | 5.7100e-003 | 5.7100e-003 | | 5.7100e-003 | 5.7100e-003 | 0.0000 | 13.1493 | 13.1493 | 1.0200e-003 | 0.0000 | 13.1747 |
| **Total** | **0.0949** | **0.0867** | **0.0943** | **1.5000e-004** | | **5.7100e-003** | **5.7100e-003** | | **5.7100e-003** | **5.7100e-003** | **0.0000** | **13.1493** | **13.1493** | **1.0200e-003** | **0.0000** | **13.1747** |

## 3.7 Architectural Coating - 2020

**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.0900e-003 | 2.4900e-003 | 0.0276 | 8.0000e-005 | 7.3400e-003 | 6.0000e-005 | 7.4000e-003 | 1.9500e-003 | 6.0000e-005 | 2.0100e-003 | 0.0000 | 6.8379 | 6.8379 | 2.2000e-004 | 0.0000 | 6.8433 |
| **Total** | **3.0900e-003** | **2.4900e-003** | **0.0276** | **8.0000e-005** | **7.3400e-003** | **6.0000e-005** | **7.4000e-003** | **1.9500e-003** | **6.0000e-005** | **2.0100e-003** | **0.0000** | **6.8379** | **6.8379** | **2.2000e-004** | **0.0000** | **6.8433** |

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.0824 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0125 | 0.0867 | 0.0943 | 1.5000e-004 | | 5.7100e-003 | 5.7100e-003 | | 5.7100e-003 | 5.7100e-003 | 0.0000 | 13.1492 | 13.1492 | 1.0200e-003 | 0.0000 | 13.1747 |
| **Total** | **0.0949** | **0.0867** | **0.0943** | **1.5000e-004** | | **5.7100e-003** | **5.7100e-003** | | **5.7100e-003** | **5.7100e-003** | **0.0000** | **13.1492** | **13.1492** | **1.0200e-003** | **0.0000** | **13.1747** |

## 3.7 Architectural Coating - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.0900e-003 | 2.4900e-003 | 0.0276 | 8.0000e-005 | 7.3400e-003 | 6.0000e-005 | 7.4000e-003 | 1.9500e-003 | 6.0000e-005 | 2.0100e-003 | 0.0000 | 6.8379 | 6.8379 | 2.2000e-004 | 0.0000 | 6.8433 |
| **Total** | **3.0900e-003** | **2.4900e-003** | **0.0276** | **8.0000e-005** | **7.3400e-003** | **6.0000e-005** | **7.4000e-003** | **1.9500e-003** | **6.0000e-005** | **2.0100e-003** | **0.0000** | **6.8379** | **6.8379** | **2.2000e-004** | **0.0000** | **6.8433** |

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.1351 | 0.7005 | 1.8803 | 6.5000e-003 | 0.5226 | 5.5500e-003 | 0.5282 | 0.1401 | 5.1900e-003 | 0.1453 | 0.0000 | 599.5830 | 599.5830 | 0.0320 | 0.0000 | 600.3833 |
| Unmitigated | 0.1351 | 0.7005 | 1.8803 | 6.5000e-003 | 0.5226 | 5.5500e-003 | 0.5282 | 0.1401 | 5.1900e-003 | 0.1453 | 0.0000 | 599.5830 | 599.5830 | 0.0320 | 0.0000 | 600.3833 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 402.96 | 402.96 | 402.96 | 1,376,976 | 1,376,976 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| Total | 402.96 | 402.96 | 402.96 | 1,376,976 | 1,376,976 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Mid Rise | 0.547192 | 0.045177 | 0.202743 | 0.121510 | 0.016147 | 0.006143 | 0.019743 | 0.029945 | 0.002479 | 0.002270 | 0.005078 | 0.000682 | 0.000891 |
| Enclosed Parking with Elevator | 0.547192 | 0.045177 | 0.202743 | 0.121510 | 0.016147 | 0.006143 | 0.019743 | 0.029945 | 0.002479 | 0.002270 | 0.005078 | 0.000682 | 0.000891 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 155.9724 | 155.9724 | 6.4400e-003 | 1.3300e-003 | 156.5304 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 168.7629 | 168.7629 | 6.9700e-003 | 1.4400e-003 | 169.3666 |
| NaturalGas Mitigated | 3.7000e-003 | 0.0316 | 0.0134 | 2.0000e-004 | | 2.5500e-003 | 2.5500e-003 | | 2.5500e-003 | 2.5500e-003 | 0.0000 | 36.5708 | 36.5708 | 7.0000e-004 | 6.7000e-004 | 36.7881 |
| NaturalGas Unmitigated | 4.3900e-003 | 0.0375 | 0.0160 | 2.4000e-004 | | 3.0400e-003 | 3.0400e-003 | | 3.0400e-003 | 3.0400e-003 | 0.0000 | 43.4741 | 43.4741 | 8.3000e-004 | 8.0000e-004 | 43.7324 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 814673 | 4.3900e-003 | 0.0375 | 0.0160 | 2.4000e-004 | | 3.0400e-003 | 3.0400e-003 | | 3.0400e-003 | 3.0400e-003 | 0.0000 | 43.4741 | 43.4741 | 8.3000e-004 | 8.0000e-004 | 43.7324 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **4.3900e-003** | **0.0375** | **0.0160** | **2.4000e-004** | | **3.0400e-003** | **3.0400e-003** | | **3.0400e-003** | **3.0400e-003** | **0.0000** | **43.4741** | **43.4741** | **8.3000e-004** | **8.0000e-004** | **43.7324** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 685311 | 3.7000e-003 | 0.0316 | 0.0134 | 2.0000e-004 | | 2.5500e-003 | 2.5500e-003 | | 2.5500e-003 | 2.5500e-003 | 0.0000 | 36.5708 | 36.5708 | 7.0000e-004 | 6.7000e-004 | 36.7881 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **3.7000e-003** | **0.0316** | **0.0134** | **2.0000e-004** | | **2.5500e-003** | **2.5500e-003** | | **2.5500e-003** | **2.5500e-003** | **0.0000** | **36.5708** | **36.5708** | **7.0000e-004** | **6.7000e-004** | **36.7881** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 307515 | 97.9810 | 4.0500e-003 | 8.4000e-004 | 98.3315 |
| Enclosed Parking with Elevator | 222150 | 70.7819 | 2.9200e-003 | 6.0000e-004 | 71.0351 |
| **Total** | | **168.7629** | **6.9700e-003** | **1.4400e-003** | **169.3666** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 303549 | 96.7173 | 3.9900e-003 | 8.3000e-004 | 97.0633 |
| Enclosed Parking with Elevator | 185974 | 59.2551 | 2.4500e-003 | 5.1000e-004 | 59.4671 |
| **Total** | | **155.9724** | **6.4400e-003** | **1.3400e-003** | **156.5304** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.2585 | 8.7200e-003 | 0.7555 | 4.0000e-005 | | 4.1600e-003 | 4.1600e-003 | | 4.1600e-003 | 4.1600e-003 | 0.0000 | 1.2317 | 1.2317 | 1.2000e-003 | 0.0000 | 1.2616 |
| Unmitigated | 0.2585 | 8.7200e-003 | 0.7555 | 4.0000e-005 | | 4.1600e-003 | 4.1600e-003 | | 4.1600e-003 | 4.1600e-003 | 0.0000 | 1.2317 | 1.2317 | 1.2000e-003 | 0.0000 | 1.2616 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0188 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.2167 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0230 | 8.7200e-003 | 0.7555 | 4.0000e-005 | | 4.1600e-003 | 4.1600e-003 | | 4.1600e-003 | 4.1600e-003 | 0.0000 | 1.2317 | 1.2317 | 1.2000e-003 | 0.0000 | 1.2616 |
| **Total** | **0.2585** | **8.7200e-003** | **0.7555** | **4.0000e-005** | | **4.1600e-003** | **4.1600e-003** | | **4.1600e-003** | **4.1600e-003** | **0.0000** | **1.2317** | **1.2317** | **1.2000e-003** | **0.0000** | **1.2616** |

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0188 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.2167 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0230 | 8.7200e-003 | 0.7555 | 4.0000e-005 | | 4.1600e-003 | 4.1600e-003 | | 4.1600e-003 | 4.1600e-003 | 0.0000 | 1.2317 | 1.2317 | 1.2000e-003 | 0.0000 | 1.2616 |
| **Total** | **0.2585** | **8.7200e-003** | **0.7555** | **4.0000e-005** | | **4.1600e-003** | **4.1600e-003** | | **4.1600e-003** | **4.1600e-003** | **0.0000** | **1.2317** | **1.2317** | **1.2000e-003** | **0.0000** | **1.2616** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 31.8558 | 0.1562 | 3.9200e-003 | 36.9295 |
| Unmitigated | 31.8558 | 0.1562 | 3.9200e-003 | 36.9295 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 4.75624 / 2.9985 | 31.8558 | 0.1562 | 3.9200e-003 | 36.9295 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **31.8558** | **0.1562** | **3.9200e-003** | **36.9295** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 4.75624 / 2.9985 | 31.8558 | 0.1562 | 3.9200e-003 | 36.9295 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **31.8558** | **0.1562** | **3.9200e-003** | **36.9295** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 2.7266 | 0.1611 | 0.0000 | 6.7550 |
| Unmitigated | 6.8164 | 0.4028 | 0.0000 | 16.8874 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 33.58 | 6.8164 | 0.4028 | 0.0000 | 16.8874 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **6.8164** | **0.4028** | **0.0000** | **16.8874** |

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 13.432 | 2.7266 | 0.1611 | 0.0000 | 6.7550 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **2.7266** | **0.1611** | **0.0000** | **6.7550** |

## 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

## 10.0 Stationary Equipment

**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

**User Defined Equipment**

| Equipment Type | Number |
|---|---|

## 11.0 Vegetation

**Greenhouse Gas Emission Worksheet**
***N2O Mobile Emissions*** 505-517 West 31st Street - Proposed Project

**From CalEEMod 2016.3.1 Vehicle Fleet Mix Output:**

Annual VMT: 1,376,976

| Vehicle Type | Percent Type | CH4 Emission Factor (g/mile)* | CH4 Emission (g/mile)** | N2O Emission Factor (g/mile)* | N2O Emission (g/mile)** |
|---|---|---|---|---|---|
| Light Auto | 54.80% | 0.04 | 0.0219203 | 0.04 | 0.02192 |
| Light Truck < 3750 lbs | 4.58% | 0.05 | 0.0022876 | 0.06 | 0.002745 |
| Light Truck 3751-5750 lbs | 20.03% | 0.05 | 0.0100155 | 0.06 | 0.012019 |
| Med Truck 5751-8500 lbs | 12.41% | 0.12 | 0.0148943 | 0.2 | 0.024824 |
| Lite-Heavy Truck 8501-10,000 lbs | 1.71% | 0.12 | 0.002056 | 0.2 | 0.003427 |
| Lite-Heavy Truck 10,001-14,000 lbs | 0.60% | 0.09 | 0.0005423 | 0.125 | 0.000753 |
| Med-Heavy Truck 14,001-33,000 lbs | 1.89% | 0.06 | 0.0011317 | 0.05 | 0.000943 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 2.84% | 0.06 | 0.0017054 | 0.05 | 0.001421 |
| Other Bus | 0.24% | 0.06 | 0.0001435 | 0.05 | 0.00012 |
| Urban Bus | 0.25% | 0.06 | 0.0001481 | 0.05 | 0.000123 |
| Motorcycle | 0.49% | 0.09 | 0.0004424 | 0.01 | 4.92E-05 |
| School Bus | 0.07% | 0.06 | 4.032E-05 | 0.05 | 3.36E-05 |
| Motor Home | 0.09% | 0.09 | 8.325E-05 | 0.125 | 0.000116 |
| **Total** | **100.0%** | | **0.0554103** | | **0.068493** |

**Total Emissions (metric tons) =**
**Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g**

**Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)**

| | | |
|---|---|---|
| CH4 | 25 | GWP |
| N2O | 298 | GWP |
| 1 ton (short, US) = | 0.90718474 | metric ton |

**Annual Mobile Emissions:**

| | Total Emissions | | Total CO2e units | |
|---|---|---|---|---|
| N2O Emissions: | 0.0943 | metric tons N2O | **28.11** | metric tons CO2e |
| | | ***Project Total:*** | ***28.11*** | ***metric tons CO2e*** |

**References**

* from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile).
in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
Assume Model year 2000-present, gasoline fueled.
** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.

# 505-517 West 31st Street - Existing Use

**Los Angeles-South Coast County, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Single Family Housing | 3.00 | Dwelling Unit | 0.47 | 1,750.00 | 9 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 33 |
| **Climate Zone** | 11 | | | **Operational Year** | 2019 |
| **Utility Company** | Southern California Edison | | | | |
| **CO2 Intensity (lb/MWhr)** | 702.44 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

505-517 West 31st Street - Existing Use - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - Existing 515-517 residences on site, approximately 1,750 sf.

Construction Phase - No construction for existing residences

Grading -

Demolition -

Vehicle Trips - Traffic study rate was 6.65 + 15% reduction per LADOT's Traffic Study Policies and Procedures = 5.65 trips/DU/day

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Waste Mitigation - City of Los Angeles adopted 70% diversion rate goal by 2020, which would mean 60% on top of 50% baseline from AB939 (1-0.5*0.6=0.7=70%)

Woodstoves - No woodstoves/fireplaces in building

Off-road Equipment -

505-517 West 31st Street - Existing Use - Los Angeles-South Coast County, Winter

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 40 | 0 |
| tblConstructionPhase | NumDays | 5.00 | 0.00 |
| tblConstructionPhase | PhaseEndDate | 11/29/2019 | 1/5/2017 |
| tblConstructionPhase | PhaseStartDate | 1/26/2019 | 1/6/2017 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 2.55 | 0.00 |
| tblFireplaces | NumberNoFireplace | 0.30 | 0.00 |
| tblFireplaces | NumberWood | 0.15 | 0.00 |
| tblLandUse | BuildingSpaceSquareFeet | 5,400.00 | 1,750.00 |
| tblLandUse | LandUseSquareFeet | 5,400.00 | 1,750.00 |
| tblLandUse | LotAcreage | 0.97 | 0.47 |
| tblProjectCharacteristics | OperationalYear | 2018 | 2019 |
| tblVehicleTrips | ST_TR | 9.91 | 5.65 |
| tblVehicleTrips | SU_TR | 8.62 | 5.65 |
| tblVehicleTrips | WD_TR | 9.52 | 5.65 |
| tblWoodstoves | NumberCatalytic | 0.15 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 0.15 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

**Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2017 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.1733 | 0.0000 | 0.0000 | 0.1733 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Maximum** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.1733** | **0.0000** | **0.0000** | **0.1733** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Mitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2017 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.1733 | 0.0000 | 0.0000 | 0.1733 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Maximum** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.1733** | **0.0000** | **0.0000** | **0.1733** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

| | **ROG** | **NOx** | **CO** | **SO2** | **Fugitive PM10** | **Exhaust PM10** | **PM10 Total** | **Fugitive PM2.5** | **Exhaust PM2.5** | **PM2.5 Total** | **Bio- CO2** | **NBio-CO2** | **Total CO2** | **CH4** | **N20** | **CO2e** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0453 | 2.8800e-003 | 0.2487 | 1.0000e-005 | | 1.3600e-003 | 1.3600e-003 | | 1.3600e-003 | 1.3600e-003 | 0.0000 | 0.4457 | 0.4457 | 4.4000e-004 | 0.0000 | 0.4566 |
| Energy | 2.9700e-003 | 0.0254 | 0.0108 | 1.6000e-004 | | 2.0500e-003 | 2.0500e-003 | | 2.0500e-003 | 2.0500e-003 | | 32.4137 | 32.4137 | 6.2000e-004 | 5.9000e-004 | 32.6063 |
| Mobile | 0.0379 | 0.1863 | 0.5096 | 1.5500e-003 | 0.1232 | 1.8500e-003 | 0.1250 | 0.0330 | 1.7400e-003 | 0.0347 | | 157.8724 | 157.8724 | 9.4200e-003 | | 158.1079 |
| **Total** | **0.0862** | **0.2146** | **0.7692** | **1.7200e-003** | **0.1232** | **5.2600e-003** | **0.1284** | **0.0330** | **5.1500e-003** | **0.0381** | **0.0000** | **190.7318** | **190.7318** | **0.0105** | **5.9000e-004** | **191.1708** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0453 | 2.8800e-003 | 0.2487 | 1.0000e-005 | | 1.3600e-003 | 1.3600e-003 | | 1.3600e-003 | 1.3600e-003 | 0.0000 | 0.4457 | 0.4457 | 4.4000e-004 | 0.0000 | 0.4566 |
| Energy | 2.9700e-003 | 0.0254 | 0.0108 | 1.6000e-004 | | 2.0500e-003 | 2.0500e-003 | | 2.0500e-003 | 2.0500e-003 | | 32.4137 | 32.4137 | 6.2000e-004 | 5.9000e-004 | 32.6063 |
| Mobile | 0.0379 | 0.1863 | 0.5096 | 1.5500e-003 | 0.1232 | 1.8500e-003 | 0.1250 | 0.0330 | 1.7400e-003 | 0.0347 | | 157.8724 | 157.8724 | 9.4200e-003 | | 158.1079 |
| **Total** | **0.0862** | **0.2146** | **0.7692** | **1.7200e-003** | **0.1232** | **5.2600e-003** | **0.1284** | **0.0330** | **5.1500e-003** | **0.0381** | **0.0000** | **190.7318** | **190.7318** | **0.0105** | **5.9000e-004** | **191.1708** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 3.0 Construction Detail

### Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Architectural Coating | Architectural Coating | 1/6/2017 | 1/5/2017 | 5 | 0 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 3,544; Residential Outdoor: 1,181; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

### OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

### Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Architectural Coating | 1 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Clean Paved Roads

## 3.2 Architectural Coating - 2017

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 3.2 Architectural Coating - 2017

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0379 | 0.1863 | 0.5096 | 1.5500e-003 | 0.1232 | 1.8500e-003 | 0.1250 | 0.0330 | 1.7400e-003 | 0.0347 | | 157.8724 | 157.8724 | 9.4200e-003 | | 158.1079 |
| Unmitigated | 0.0379 | 0.1863 | 0.5096 | 1.5500e-003 | 0.1232 | 1.8500e-003 | 0.1250 | 0.0330 | 1.7400e-003 | 0.0347 | | 157.8724 | 157.8724 | 9.4200e-003 | | 158.1079 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Single Family Housing | 16.95 | 16.95 | 16.95 | 57,921 | 57,921 |
| Total | 16.95 | 16.95 | 16.95 | 57,921 | 57,921 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Single Family Housing | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 2.9700e-003 | 0.0254 | 0.0108 | 1.6000e-004 | | 2.0500e-003 | 2.0500e-003 | | 2.0500e-003 | 2.0500e-003 | | 32.4137 | 32.4137 | 6.2000e-004 | 5.9000e-004 | 32.6063 |
| NaturalGas Unmitigated | 2.9700e-003 | 0.0254 | 0.0108 | 1.6000e-004 | | 2.0500e-003 | 2.0500e-003 | | 2.0500e-003 | 2.0500e-003 | | 32.4137 | 32.4137 | 6.2000e-004 | 5.9000e-004 | 32.6063 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Single Family Housing | 275.517 | 2.9700e-003 | 0.0254 | 0.0108 | 1.6000e-004 | | 2.0500e-003 | 2.0500e-003 | | 2.0500e-003 | 2.0500e-003 | | 32.4137 | 32.4137 | 6.2000e-004 | 5.9000e-004 | 32.6063 |
| **Total** | | **2.9700e-003** | **0.0254** | **0.0108** | **1.6000e-004** | | **2.0500e-003** | **2.0500e-003** | | **2.0500e-003** | **2.0500e-003** | | **32.4137** | **32.4137** | **6.2000e-004** | **5.9000e-004** | **32.6063** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Single Family Housing | 0.275517 | 2.9700e-003 | 0.0254 | 0.0108 | 1.6000e-004 | | 2.0500e-003 | 2.0500e-003 | | 2.0500e-003 | 2.0500e-003 | | 32.4137 | 32.4137 | 6.2000e-004 | 5.9000e-004 | 32.6063 |
| **Total** | | **2.9700e-003** | **0.0254** | **0.0108** | **1.6000e-004** | | **2.0500e-003** | **2.0500e-003** | | **2.0500e-003** | **2.0500e-003** | | **32.4137** | **32.4137** | **6.2000e-004** | **5.9000e-004** | **32.6063** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0453 | 2.8800e-003 | 0.2487 | 1.0000e-005 | | 1.3600e-003 | 1.3600e-003 | | 1.3600e-003 | 1.3600e-003 | 0.0000 | 0.4457 | 0.4457 | 4.4000e-004 | 0.0000 | 0.4566 |
| Unmitigated | 0.0453 | 2.8800e-003 | 0.2487 | 1.0000e-005 | | 1.3600e-003 | 1.3600e-003 | | 1.3600e-003 | 1.3600e-003 | 0.0000 | 0.4457 | 0.4457 | 4.4000e-004 | 0.0000 | 0.4566 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 3.0000e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0347 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 7.6100e-003 | 2.8800e-003 | 0.2487 | 1.0000e-005 | | 1.3600e-003 | 1.3600e-003 | | 1.3600e-003 | 1.3600e-003 | | 0.4457 | 0.4457 | 4.4000e-004 | | 0.4566 |
| **Total** | **0.0453** | **2.8800e-003** | **0.2487** | **1.0000e-005** | | **1.3600e-003** | **1.3600e-003** | | **1.3600e-003** | **1.3600e-003** | **0.0000** | **0.4457** | **0.4457** | **4.4000e-004** | **0.0000** | **0.4566** |

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 3.0000e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0347 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 7.6100e-003 | 2.8800e-003 | 0.2487 | 1.0000e-005 | | 1.3600e-003 | 1.3600e-003 | | 1.3600e-003 | 1.3600e-003 | | 0.4457 | 0.4457 | 4.4000e-004 | | 0.4566 |
| **Total** | **0.0453** | **2.8800e-003** | **0.2487** | **1.0000e-005** | | **1.3600e-003** | **1.3600e-003** | | **1.3600e-003** | **1.3600e-003** | **0.0000** | **0.4457** | **0.4457** | **4.4000e-004** | **0.0000** | **0.4566** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

# 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

## 10.0 Stationary Equipment

**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

**User Defined Equipment**

| Equipment Type | Number |
|---|---|

## 11.0 Vegetation

# 505-517 West 31st Street - Existing Use

**Los Angeles-South Coast County, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Single Family Housing | 3.00 | Dwelling Unit | 0.47 | 1,750.00 | 9 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 33 |
| **Climate Zone** | 11 | | | **Operational Year** | 2019 |
| **Utility Company** | Southern California Edison | | | | |
| **CO2 Intensity (lb/MWhr)** | 702.44 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

505-517 West 31st Street - Existing Use - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use - Existing 515-517 residences on site, approximately 1,750 sf.

Construction Phase - No construction for existing residences

Grading -

Demolition -

Vehicle Trips - Traffic study rate was 6.65 + 15% reduction per LADOT's Traffic Study Policies and Procedures = 5.65 trips/DU/day

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Waste Mitigation - City of Los Angeles adopted 70% diversion rate goal by 2020, which would mean 60% on top of 50% baseline from AB939 (1-0.5*0.6=0.7=70%)

Woodstoves - No woodstoves/fireplaces in building

Off-road Equipment -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 40 | 0 |
| tblConstructionPhase | NumDays | 5.00 | 0.00 |
| tblConstructionPhase | PhaseEndDate | 11/29/2019 | 1/5/2017 |
| tblConstructionPhase | PhaseStartDate | 1/26/2019 | 1/6/2017 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 2.55 | 0.00 |
| tblFireplaces | NumberNoFireplace | 0.30 | 0.00 |
| tblFireplaces | NumberWood | 0.15 | 0.00 |
| tblLandUse | BuildingSpaceSquareFeet | 5,400.00 | 1,750.00 |
| tblLandUse | LandUseSquareFeet | 5,400.00 | 1,750.00 |
| tblLandUse | LotAcreage | 0.97 | 0.47 |
| tblProjectCharacteristics | OperationalYear | 2018 | 2019 |
| tblVehicleTrips | ST_TR | 9.91 | 5.65 |
| tblVehicleTrips | SU_TR | 8.62 | 5.65 |
| tblVehicleTrips | WD_TR | 9.52 | 5.65 |
| tblWoodstoves | NumberCatalytic | 0.15 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 0.15 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

**Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2017 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.1733 | 0.0000 | 0.0000 | 0.1733 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Maximum** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.1733** | **0.0000** | **0.0000** | **0.1733** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Mitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2017 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.1733 | 0.0000 | 0.0000 | 0.1733 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Maximum** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.1733** | **0.0000** | **0.0000** | **0.1733** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

| | **ROG** | **NOx** | **CO** | **SO2** | **Fugitive PM10** | **Exhaust PM10** | **PM10 Total** | **Fugitive PM2.5** | **Exhaust PM2.5** | **PM2.5 Total** | **Bio- CO2** | **NBio-CO2** | **Total CO2** | **CH4** | **N20** | **CO2e** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0453 | 2.8800e-003 | 0.2487 | 1.0000e-005 | | 1.3600e-003 | 1.3600e-003 | | 1.3600e-003 | 1.3600e-003 | 0.0000 | 0.4457 | 0.4457 | 4.4000e-004 | 0.0000 | 0.4566 |
| Energy | 2.9700e-003 | 0.0254 | 0.0108 | 1.6000e-004 | | 2.0500e-003 | 2.0500e-003 | | 2.0500e-003 | 2.0500e-003 | | 32.4137 | 32.4137 | 6.2000e-004 | 5.9000e-004 | 32.6063 |
| Mobile | 0.0389 | 0.1808 | 0.5358 | 1.6400e-003 | 0.1232 | 1.8400e-003 | 0.1250 | 0.0330 | 1.7300e-003 | 0.0347 | | 165.9804 | 165.9804 | 9.4800e-003 | | 166.2174 |
| **Total** | **0.0871** | **0.2091** | **0.7954** | **1.8100e-003** | **0.1232** | **5.2500e-003** | **0.1284** | **0.0330** | **5.1400e-003** | **0.0381** | **0.0000** | **198.8398** | **198.8398** | **0.0105** | **5.9000e-004** | **199.2803** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.0453 | 2.8800e-003 | 0.2487 | 1.0000e-005 | | 1.3600e-003 | 1.3600e-003 | | 1.3600e-003 | 1.3600e-003 | 0.0000 | 0.4457 | 0.4457 | 4.4000e-004 | 0.0000 | 0.4566 |
| Energy | 2.9700e-003 | 0.0254 | 0.0108 | 1.6000e-004 | | 2.0500e-003 | 2.0500e-003 | | 2.0500e-003 | 2.0500e-003 | | 32.4137 | 32.4137 | 6.2000e-004 | 5.9000e-004 | 32.6063 |
| Mobile | 0.0389 | 0.1808 | 0.5358 | 1.6400e-003 | 0.1232 | 1.8400e-003 | 0.1250 | 0.0330 | 1.7300e-003 | 0.0347 | | 165.9804 | 165.9804 | 9.4800e-003 | | 166.2174 |
| **Total** | **0.0871** | **0.2091** | **0.7954** | **1.8100e-003** | **0.1232** | **5.2500e-003** | **0.1284** | **0.0330** | **5.1400e-003** | **0.0381** | **0.0000** | **198.8398** | **198.8398** | **0.0105** | **5.9000e-004** | **199.2803** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 3.0 Construction Detail

### Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Architectural Coating | Architectural Coating | 1/6/2017 | 1/5/2017 | 5 | 0 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 3,544; Residential Outdoor: 1,181; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

### OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

### Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Architectural Coating | 1 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Clean Paved Roads

## 3.2 Architectural Coating - 2017

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 3.2 Architectural Coating - 2017

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0389 | 0.1808 | 0.5358 | 1.6400e-003 | 0.1232 | 1.8400e-003 | 0.1250 | 0.0330 | 1.7300e-003 | 0.0347 | | 165.9804 | 165.9804 | 9.4800e-003 | | 166.2174 |
| Unmitigated | 0.0389 | 0.1808 | 0.5358 | 1.6400e-003 | 0.1232 | 1.8400e-003 | 0.1250 | 0.0330 | 1.7300e-003 | 0.0347 | | 165.9804 | 165.9804 | 9.4800e-003 | | 166.2174 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Single Family Housing | 16.95 | 16.95 | 16.95 | 57,921 | 57,921 |
| Total | 16.95 | 16.95 | 16.95 | 57,921 | 57,921 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Single Family Housing | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 2.9700e-003 | 0.0254 | 0.0108 | 1.6000e-004 | | 2.0500e-003 | 2.0500e-003 | | 2.0500e-003 | 2.0500e-003 | | 32.4137 | 32.4137 | 6.2000e-004 | 5.9000e-004 | 32.6063 |
| NaturalGas Unmitigated | 2.9700e-003 | 0.0254 | 0.0108 | 1.6000e-004 | | 2.0500e-003 | 2.0500e-003 | | 2.0500e-003 | 2.0500e-003 | | 32.4137 | 32.4137 | 6.2000e-004 | 5.9000e-004 | 32.6063 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Single Family Housing | 275.517 | 2.9700e-003 | 0.0254 | 0.0108 | 1.6000e-004 | | 2.0500e-003 | 2.0500e-003 | | 2.0500e-003 | 2.0500e-003 | | 32.4137 | 32.4137 | 6.2000e-004 | 5.9000e-004 | 32.6063 |
| **Total** | | **2.9700e-003** | **0.0254** | **0.0108** | **1.6000e-004** | | **2.0500e-003** | **2.0500e-003** | | **2.0500e-003** | **2.0500e-003** | | **32.4137** | **32.4137** | **6.2000e-004** | **5.9000e-004** | **32.6063** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Single Family Housing | 0.275517 | 2.9700e-003 | 0.0254 | 0.0108 | 1.6000e-004 | | 2.0500e-003 | 2.0500e-003 | | 2.0500e-003 | 2.0500e-003 | | 32.4137 | 32.4137 | 6.2000e-004 | 5.9000e-004 | 32.6063 |
| **Total** | | **2.9700e-003** | **0.0254** | **0.0108** | **1.6000e-004** | | **2.0500e-003** | **2.0500e-003** | | **2.0500e-003** | **2.0500e-003** | | **32.4137** | **32.4137** | **6.2000e-004** | **5.9000e-004** | **32.6063** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.0453 | 2.8800e-003 | 0.2487 | 1.0000e-005 | | 1.3600e-003 | 1.3600e-003 | | 1.3600e-003 | 1.3600e-003 | 0.0000 | 0.4457 | 0.4457 | 4.4000e-004 | 0.0000 | 0.4566 |
| Unmitigated | 0.0453 | 2.8800e-003 | 0.2487 | 1.0000e-005 | | 1.3600e-003 | 1.3600e-003 | | 1.3600e-003 | 1.3600e-003 | 0.0000 | 0.4457 | 0.4457 | 4.4000e-004 | 0.0000 | 0.4566 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 3.0000e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0347 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 7.6100e-003 | 2.8800e-003 | 0.2487 | 1.0000e-005 | | 1.3600e-003 | 1.3600e-003 | | 1.3600e-003 | 1.3600e-003 | | 0.4457 | 0.4457 | 4.4000e-004 | | 0.4566 |
| **Total** | **0.0453** | **2.8800e-003** | **0.2487** | **1.0000e-005** | | **1.3600e-003** | **1.3600e-003** | | **1.3600e-003** | **1.3600e-003** | **0.0000** | **0.4457** | **0.4457** | **4.4000e-004** | **0.0000** | **0.4566** |

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 3.0000e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.0347 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 7.6100e-003 | 2.8800e-003 | 0.2487 | 1.0000e-005 | | 1.3600e-003 | 1.3600e-003 | | 1.3600e-003 | 1.3600e-003 | | 0.4457 | 0.4457 | 4.4000e-004 | | 0.4566 |
| **Total** | **0.0453** | **2.8800e-003** | **0.2487** | **1.0000e-005** | | **1.3600e-003** | **1.3600e-003** | | **1.3600e-003** | **1.3600e-003** | **0.0000** | **0.4457** | **0.4457** | **4.4000e-004** | **0.0000** | **0.4566** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

# 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

## 10.0 Stationary Equipment

**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

**User Defined Equipment**

| Equipment Type | Number |
|---|---|

## 11.0 Vegetation

# 505-517 West 31st Street - Existing Use

**Los Angeles-South Coast County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Single Family Housing | 3.00 | Dwelling Unit | 0.47 | 1,750.00 | 9 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 33 |
| **Climate Zone** | 11 | | | **Operational Year** | 2019 |
| **Utility Company** | Southern California Edison | | | | |
| **CO2 Intensity (lb/MWhr)** | 702.44 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

505-517 West 31st Street - Existing Use - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Existing 515-517 residences on site, approximately 1,750 sf.

Construction Phase - No construction for existing residences

Grading -

Demolition -

Vehicle Trips - Traffic study rate was 6.65 + 15% reduction per LADOT's Traffic Study Policies and Procedures = 5.65 trips/DU/day

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Waste Mitigation - City of Los Angeles adopted 70% diversion rate goal by 2020, which would mean 60% on top of 50% baseline from AB939 (1-0.5*0.6=0.7=70%)

Woodstoves - No woodstoves/fireplaces in building

Off-road Equipment -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 40 | 0 |
| tblConstructionPhase | NumDays | 5.00 | 0.00 |
| tblConstructionPhase | PhaseEndDate | 11/29/2019 | 1/5/2017 |
| tblConstructionPhase | PhaseStartDate | 1/26/2019 | 1/6/2017 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 2.55 | 0.00 |
| tblFireplaces | NumberNoFireplace | 0.30 | 0.00 |
| tblFireplaces | NumberWood | 0.15 | 0.00 |
| tblLandUse | BuildingSpaceSquareFeet | 5,400.00 | 1,750.00 |
| tblLandUse | LandUseSquareFeet | 5,400.00 | 1,750.00 |
| tblLandUse | LotAcreage | 0.97 | 0.47 |
| tblProjectCharacteristics | OperationalYear | 2018 | 2019 |
| tblVehicleTrips | ST_TR | 9.91 | 5.65 |
| tblVehicleTrips | SU_TR | 8.62 | 5.65 |
| tblVehicleTrips | WD_TR | 9.52 | 5.65 |
| tblWoodstoves | NumberCatalytic | 0.15 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 0.15 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2017 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Maximum** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2017 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Maximum** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

| | **ROG** | **NOx** | **CO** | **SO2** | **Fugitive PM10** | **Exhaust PM10** | **PM10 Total** | **Fugitive PM2.5** | **Exhaust PM2.5** | **PM2.5 Total** | **Bio- CO2** | **NBio-CO2** | **Total CO2** | **CH4** | **N20** | **CO2e** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| | | **Highest** | | |

## 2.2 Overall Operational

**Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 7.8200e-003 | 3.6000e-004 | 0.0311 | 0.0000 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 0.0505 | 0.0505 | 5.0000e-005 | 0.0000 | 0.0518 |
| Energy | 5.4000e-004 | 4.6300e-003 | 1.9700e-003 | 3.0000e-005 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 13.5182 | 13.5182 | 4.4000e-004 | 1.7000e-004 | 13.5792 |
| Mobile | 6.7400e-003 | 0.0346 | 0.0941 | 2.9000e-004 | 0.0220 | 3.4000e-004 | 0.0223 | 5.8900e-003 | 3.2000e-004 | 6.2100e-003 | 0.0000 | 26.4307 | 26.4307 | 1.5500e-003 | 0.0000 | 26.4695 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.7490 | 0.0000 | 0.7490 | 0.0443 | 0.0000 | 1.8557 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0620 | 1.2471 | 1.3091 | 6.4200e-003 | 1.6000e-004 | 1.5177 |
| **Total** | **0.0151** | **0.0395** | **0.1271** | **3.2000e-004** | **0.0220** | **8.8000e-004** | **0.0229** | **5.8900e-003** | **8.6000e-004** | **6.7500e-003** | **0.8111** | **41.2466** | **42.0576** | **0.0527** | **3.3000e-004** | **43.4739** |

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 7.8200e-003 | 3.6000e-004 | 0.0311 | 0.0000 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 0.0505 | 0.0505 | 5.0000e-005 | 0.0000 | 0.0518 |
| Energy | 5.4000e-004 | 4.6300e-003 | 1.9700e-003 | 3.0000e-005 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 13.5182 | 13.5182 | 4.4000e-004 | 1.7000e-004 | 13.5792 |
| Mobile | 6.7400e-003 | 0.0346 | 0.0941 | 2.9000e-004 | 0.0220 | 3.4000e-004 | 0.0223 | 5.8900e-003 | 3.2000e-004 | 6.2100e-003 | 0.0000 | 26.4307 | 26.4307 | 1.5500e-003 | 0.0000 | 26.4695 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.2996 | 0.0000 | 0.2996 | 0.0177 | 0.0000 | 0.7423 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0620 | 1.2471 | 1.3091 | 6.4200e-003 | 1.6000e-004 | 1.5177 |
| **Total** | **0.0151** | **0.0395** | **0.1271** | **3.2000e-004** | **0.0220** | **8.8000e-004** | **0.0229** | **5.8900e-003** | **8.6000e-004** | **6.7500e-003** | **0.3616** | **41.2466** | **41.6082** | **0.0262** | **3.3000e-004** | **42.3604** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **55.41** | **0.00** | **1.07** | **50.37** | **0.00** | **2.56** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Architectural Coating | Architectural Coating | 1/6/2017 | 1/5/2017 | 5 | 0 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 3,544; Residential Outdoor: 1,181; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Architectural Coating | 1 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Clean Paved Roads

## 3.2 Architectural Coating - 2017

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 3.2 Architectural Coating - 2017

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 6.7400e-003 | 0.0346 | 0.0941 | 2.9000e-004 | 0.0220 | 3.4000e-004 | 0.0223 | 5.8900e-003 | 3.2000e-004 | 6.2100e-003 | 0.0000 | 26.4307 | 26.4307 | 1.5500e-003 | 0.0000 | 26.4695 |
| Unmitigated | 6.7400e-003 | 0.0346 | 0.0941 | 2.9000e-004 | 0.0220 | 3.4000e-004 | 0.0223 | 5.8900e-003 | 3.2000e-004 | 6.2100e-003 | 0.0000 | 26.4307 | 26.4307 | 1.5500e-003 | 0.0000 | 26.4695 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Single Family Housing | 16.95 | 16.95 | 16.95 | 57,921 | 57,921 |
| Total | 16.95 | 16.95 | 16.95 | 57,921 | 57,921 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Single Family Housing | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single Family Housing | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.1517 | 8.1517 | 3.4000e-004 | 7.0000e-005 | 8.1809 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 8.1517 | 8.1517 | 3.4000e-004 | 7.0000e-005 | 8.1809 |
| NaturalGas Mitigated | 5.4000e-004 | 4.6300e-003 | 1.9700e-003 | 3.0000e-005 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 5.3665 | 5.3665 | 1.0000e-004 | 1.0000e-004 | 5.3984 |
| NaturalGas Unmitigated | 5.4000e-004 | 4.6300e-003 | 1.9700e-003 | 3.0000e-005 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 5.3665 | 5.3665 | 1.0000e-004 | 1.0000e-004 | 5.3984 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Single Family Housing | 100564 | 5.4000e-004 | 4.6300e-003 | 1.9700e-003 | 3.0000e-005 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 5.3665 | 5.3665 | 1.0000e-004 | 1.0000e-004 | 5.3984 |
| **Total** | | **5.4000e-004** | **4.6300e-003** | **1.9700e-003** | **3.0000e-005** | | **3.7000e-004** | **3.7000e-004** | | **3.7000e-004** | **3.7000e-004** | **0.0000** | **5.3665** | **5.3665** | **1.0000e-004** | **1.0000e-004** | **5.3984** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Single Family Housing | 100564 | 5.4000e-004 | 4.6300e-003 | 1.9700e-003 | 3.0000e-005 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 5.3665 | 5.3665 | 1.0000e-004 | 1.0000e-004 | 5.3984 |
| **Total** | | **5.4000e-004** | **4.6300e-003** | **1.9700e-003** | **3.0000e-005** | | **3.7000e-004** | **3.7000e-004** | | **3.7000e-004** | **3.7000e-004** | **0.0000** | **5.3665** | **5.3665** | **1.0000e-004** | **1.0000e-004** | **5.3984** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Single Family Housing | 25584.3 | 8.1517 | 3.4000e-004 | 7.0000e-005 | 8.1809 |
| **Total** | | **8.1517** | **3.4000e-004** | **7.0000e-005** | **8.1809** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Single Family Housing | 25584.3 | 8.1517 | 3.4000e-004 | 7.0000e-005 | 8.1809 |
| **Total** | | **8.1517** | **3.4000e-004** | **7.0000e-005** | **8.1809** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 7.8200e-003 | 3.6000e-004 | 0.0311 | 0.0000 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 0.0505 | 0.0505 | 5.0000e-005 | 0.0000 | 0.0518 |
| Unmitigated | 7.8200e-003 | 3.6000e-004 | 0.0311 | 0.0000 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 0.0505 | 0.0505 | 5.0000e-005 | 0.0000 | 0.0518 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 5.5000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 6.3200e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 9.5000e-004 | 3.6000e-004 | 0.0311 | 0.0000 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 0.0505 | 0.0505 | 5.0000e-005 | 0.0000 | 0.0518 |
| **Total** | **7.8200e-003** | **3.6000e-004** | **0.0311** | **0.0000** | | **1.7000e-004** | **1.7000e-004** | | **1.7000e-004** | **1.7000e-004** | **0.0000** | **0.0505** | **0.0505** | **5.0000e-005** | **0.0000** | **0.0518** |

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 5.5000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 6.3200e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 9.5000e-004 | 3.6000e-004 | 0.0311 | 0.0000 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 0.0505 | 0.0505 | 5.0000e-005 | 0.0000 | 0.0518 |
| **Total** | **7.8200e-003** | **3.6000e-004** | **0.0311** | **0.0000** | | **1.7000e-004** | **1.7000e-004** | | **1.7000e-004** | **1.7000e-004** | **0.0000** | **0.0505** | **0.0505** | **5.0000e-005** | **0.0000** | **0.0518** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 1.3091 | 6.4200e-003 | 1.6000e-004 | 1.5177 |
| Unmitigated | 1.3091 | 6.4200e-003 | 1.6000e-004 | 1.5177 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Single Family Housing | 0.195462 / 0.123226 | 1.3091 | 6.4200e-003 | 1.6000e-004 | 1.5177 |
| **Total** | | **1.3091** | **6.4200e-003** | **1.6000e-004** | **1.5177** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Single Family Housing | 0.195462 / 0.123226 | 1.3091 | 6.4200e-003 | 1.6000e-004 | 1.5177 |
| **Total** | | **1.3091** | **6.4200e-003** | **1.6000e-004** | **1.5177** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 0.2996 | 0.0177 | 0.0000 | 0.7423 |
| Unmitigated | 0.7490 | 0.0443 | 0.0000 | 1.8557 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Single Family Housing | 3.69 | 0.7490 | 0.0443 | 0.0000 | 1.8557 |
| **Total** | | **0.7490** | **0.0443** | **0.0000** | **1.8557** |

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Single Family Housing | 1.476 | 0.2996 | 0.0177 | 0.0000 | 0.7423 |
| **Total** | | **0.2996** | **0.0177** | **0.0000** | **0.7423** |

## 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

## 10.0 Stationary Equipment

**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

**User Defined Equipment**

| Equipment Type | Number |
|---|---|

## 11.0 Vegetation

**Greenhouse Gas Emission Worksheet**

***N2O Mobile Emissions*** 505-517 West 31st Street - Existing Use

**From CalEEMod 2016.3.1 Vehicle Fleet Mix Output:**

Annual VMT: 57,921

| Vehicle Type | Percent Type | CH4 Emission Factor (g/mile)* | CH4 Emission (g/mile)** | N2O Emission Factor (g/mile)* | N2O Emission (g/mile)** |
|---|---|---|---|---|---|
| Light Auto | 54.80% | 0.04 | 0.0219203 | 0.04 | 0.02192 |
| Light Truck < 3750 lbs | 4.58% | 0.05 | 0.0022876 | 0.06 | 0.002745 |
| Light Truck 3751-5750 lbs | 20.03% | 0.05 | 0.0100155 | 0.06 | 0.012019 |
| Med Truck 5751-8500 lbs | 12.41% | 0.12 | 0.0148943 | 0.2 | 0.024824 |
| Lite-Heavy Truck 8501-10,000 lbs | 1.71% | 0.12 | 0.002056 | 0.2 | 0.003427 |
| Lite-Heavy Truck 10,001-14,000 lbs | 0.60% | 0.09 | 0.0005423 | 0.125 | 0.000753 |
| Med-Heavy Truck 14,001-33,000 lbs | 1.89% | 0.06 | 0.0011317 | 0.05 | 0.000943 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 2.84% | 0.06 | 0.0017054 | 0.05 | 0.001421 |
| Other Bus | 0.24% | 0.06 | 0.0001435 | 0.05 | 0.00012 |
| Urban Bus | 0.25% | 0.06 | 0.0001481 | 0.05 | 0.000123 |
| Motorcycle | 0.49% | 0.09 | 0.0004424 | 0.01 | 4.92E-05 |
| School Bus | 0.07% | 0.06 | 4.032E-05 | 0.05 | 3.36E-05 |
| Motor Home | 0.09% | 0.09 | 8.325E-05 | 0.125 | 0.000116 |
| **Total** | **100.0%** | | **0.0554103** | | **0.068493** |

**Total Emissions (metric tons) =**
**Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g**

**Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)**

| | | |
|---|---|---|
| CH4 | 25 | GWP |
| N2O | 298 | GWP |
| 1 ton (short, US) = | 0.90718474 | metric ton |

**Annual Mobile Emissions:**

| | Total Emissions | | Total CO2e units | |
|---|---|---|---|---|
| N2O Emissions: | 0.0040 | metric tons N2O | **1.18** | metric tons CO2e |
| | | ***Project Total:*** | ***1.18*** | ***metric tons CO2e*** |

**References**

* from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile).
in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
Assume Model year 2000-present, gasoline fueled.

** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.

# Appendix B

Health Risk Assessment

# 505 – 517 West 31st Street Project

## Health Risk Assessment

*prepared for*
**31st & Figueroa Holdings, LLC**
10474 Santa Monica Blvd, Suite
402 Los Angeles, California 90025

*prepared by*
**Rincon Consultants, Inc.**
250 East 1st Street, Suite 301
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**August 2017**

Rincon Consultants, Inc.
Environmental Scientists Planners Engineers
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# 505 – 517 West 31st Street Project

## Health Risk Assessment

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**August 2017**

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Appendix A Emissions Estimates (adapted from the UC Davis-Caltrans MSAT model), AERMOD Output, and HARP Risk Results

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# 1 Project Summary

## 1.1 Introduction

This Health Risk Assessment (HRA) analyzes the possible health effects associated with toxic air contaminant (TAC) emissions from Interstate 110 (I-110) at the proposed 73-unit residential building located at 505-517 West 31st Street in Los Angeles, California. The report has been prepared under contract to Canfield Development, Inc.

## 1.2 Summary

The proposed project involves a 73-unit residential building located at 505-517 West 31st Street in Los Angeles. This HRA conducts site-specific air dispersion modeling to determine whether health risks to future site residents from the I-110 mainline and associated ramps would exceed the South Coast Air Quality Management District's (SCAQMD) health risk criteria for residences. SCAQMD has health risk criteria for cancer, chronic, and acute health risks.

The California Air Resources Board's (ARB) A*ir Quality and Land Use Handbook: A Community Health Perspective* recommends that local agencies avoid siting new, sensitive land uses within specific distances of potential sources of TACs, such as freeways, high-traffic roads, distribution centers, railroads, and ports (ARB 2005). In particular, ARB recommends that local agencies avoid siting new, sensitive land uses within 500 feet of a freeway. The primary concern is the effect of diesel exhaust particulate, a TAC, on sensitive uses. Near the project site, the primary source of diesel exhaust particulates is truck traffic traveling on the I-110 mainline and associated ramps. In addition to diesel exhaust particulates, this analysis also examined five other vehicle exhaust pollutants of concern that are emitted from both diesel and gasoline-fueled vehicles: acrolein, acetaldehyde, formaldehyde, benzene, and 1,3-butadiene.

Cancer risk is expressed as the maximum number of new cases of cancer projected to occur in a population of one million people due to exposure to the cancer-causing substance. Typically, cancer risk is analyzed over a specific exposure duration, such as the average residency (50-percentile) of nine years or high-end residency (95-percentile) of 30 years (SCAQMD 2015a). For example, a cancer risk of one in one million means that in a population of one million people, not more than one additional person would be expected to develop cancer as the result of the exposure to the substance causing that risk. Thirty years is the exposure duration scenario recommended by the SCAQMD for residential receptors in *Risk Assessment Procedures for Rules 1401, 1401.1, and 212* (2015).

An analysis using the U.S. Environmental Protection Agency's (USEPA) AERMOD dispersion model and ARB's Hotspots Analysis and Reporting Program (HARP) risk analysis tool determined that the maximum exposed individual receptor (MEIR) on the project site would be exposed to a high-end (95-percentile), 30-year excess cancer risk of approximately four in one million, which does not exceed SCAQMD's recommended cancer risk criteria of ten excess cases of cancer in one million individuals (SCAQMD 2015b).

The excess cancer risk for the average (50-percentile) residency of nine years would be approximately one in one million for an adult and approximately two in one million for a child, both of which are below SCAQMD's cancer risk criteria. Potential acute and chronic (such as lung inflammation, immune suppression, and immune sensitization) health risks for on-site residential units were also determined to be within the SCAQMD hazard index of 1.0 for either acute or chronic effects. This analysis is based on outdoor air concentrations and conservatively assumes that interior concentrations would be the same.

## 1.3 Project Site and Description

The proposed project involves the demolition of an existing residence and the construction of a 73-unit residential building located at 505-517 West 31st Street in Los Angeles, California. The project site is a generally flat, L-shaped lot that is approximately 130 feet west of I-110. In addition, the project site is within 500 feet of two I-110 ramps: one is an on-ramp to the southbound High Occupancy Vehicle (HOV) lane, and the other is an off-ramp from the northbound HOV lane. Commercial uses surround the majority of the project site, including a commercial/retail building to the west, a fine arts gallery to the north, and a fast food restaurant to the east. A two-story residential building and two parking lots are located south of the project site, across W. 31st Street. An alleyway is located immediately west of the project site. Primary vehicular access to W. 31st Street would be via S. Flower Street or S. Figueroa St. Figure 1 is a map of the location of the proposed project.

**Figure 1 Project Location**

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Project Site

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# 2 Air Quality Background

## 2.1 Local Climate and Meteorology

The project site is within the South Coast Air Basin (SCAB), which is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, and includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, in addition to the San Gorgonio Pass area in Riverside County. The regional climate within the SCAB is semi-arid and is characterized by warm summers, mild winters, infrequent seasonal rainfall, moderate daytime onshore breezes, and moderate humidity. The air quality within the SCAB is primarily influenced by meteorology and a wide range of emissions sources, such as dense population centers, substantial vehicular traffic, and industry.

Stationary and mobile sources primarily generate air pollutant emissions in the SCAB. Stationary sources can be divided into two major subcategories: point and area sources. Point sources occur at a specific location and are often identified by an exhaust vent or stack. Examples include boilers or combustion equipment that produce electricity or generate heat. Area sources are widely distributed and include such sources as residential and commercial water heaters, painting operations, lawn mowers, agricultural fields, landfills, and some consumer products. Mobile sources refer to emissions from motor vehicles, including tailpipe and evaporative emissions, and are classified as either on-road or off-road. On-road sources may be legally operated on roadways and highways. Off-road sources include aircraft, ships, trains, and self-propelled construction equipment. The natural environment can also generate air pollutants, such as when high winds suspend fine dust particles.

## 2.2 Air Pollutants of Concern

The SCAQMD monitors air pollutant levels to ensure that air quality standards are met and, if they are not met, develops strategies to meet the standards. The primary air pollutants of concern in the Air Basin include the following:

### Ozone

Commonly referred to as “smog,” ozone results from a chemical reaction that takes place in the atmosphere among ozone precursors (reactive organic gases and oxides of nitrogen) under the photochemical influence of sunlight. Nitrogen oxides are formed during the combustion of fuels, while reactive organic compounds are formed during combustion and evaporation of organic solvents. Various factors affect this process, including the quantity of gases present, the volume of air available for dilution, the temperature, and the intensity of the ultraviolet light. Worst case conditions for ozone formation occur in the summer and early fall on warm, windless, sunny days. The major effects of photochemical smog are aggravation of respiratory diseases, eye irritation, visibility reduction, and vegetation damage. Motor vehicles are the greatest source of ozone precursors in Los Angeles, and the groups most sensitive to ozone include children, the elderly, people with respiratory disorders, and people who exercise strenuously outdoors.

## Suspended Particles

$PM_{10}$ is small particulate matter measuring no more than 10 microns in diameter, while $PM_{2.5}$ is fine particulate matter measuring no more than 2.5 microns in diameter. Both $PM_{10}$ and $PM_{2.5}$ are composed mostly of dust particles, nitrates, and sulfates. The characteristics, sources, and potential health effects associated with the small particulates (those between 2.5 and 10 microns in diameter) and fine particulates ($PM_{2.5}$) can be very different. The small particulates generally come from windblown dust and dust kicked up from mobile sources. The fine particulates are generally associated with combustion processes and form in the atmosphere as a secondary pollutant through chemical reactions. $PM_{10}$ is a by-product of fuel combustion and wind erosion of soil and unpaved roads, and it is directly emitted into the atmosphere through these processes. Chemical reactions in the atmosphere also create $PM_{10}$. Fine particulate matter poses a serious health threat to all groups, but particularly to the elderly, children, and those with respiratory problems. More than half of the fine particulate matter that is inhaled into the lungs remains there, which can cause permanent lung damage. These materials can damage health by interfering with the body's mechanisms for clearing the respiratory tract or by acting as carriers of an absorbed toxic substance.

Diesel engine fuel combustion forms an important fraction of the particulate matter emission inventory, as particulates in diesel emissions are very small and readily respirable. The particles have hundreds of chemicals adsorbed onto their surfaces, including many known or suspected mutagens and carcinogens. The Office of Environmental Health Hazard Assessment (OEHHA) reviewed and evaluated the potential for diesel exhaust to affect human health, and the associated scientific uncertainties (CalEPA 1998). Based on the available scientific evidence, it was determined that a level of diesel PM exposure, below which no carcinogenic effects are anticipated, has not been identified. The Scientific Review Panel that approved the OEHHA report determined that, based on studies to date, $3 \times 10^{-4}$ micrograms per cubic meter ($\mu g/m^3$) is a reasonable estimate of the unit risk for diesel PM. This means that a person exposed to a diesel PM concentration of 1 $\mu g/m^3$ continuously over the course of a lifetime has a 3 per 10,000 chance (or 300 in one million chance) of contracting cancer due to this exposure. Based on an estimated year 2000 statewide average concentration of 1.26 $\mu g/m^3$ for indoor and outdoor ambient air, about 380 excess cancers per one million population could be expected if diesel PM concentrations remained the same (ARB 2000). Therefore, these particulate emissions have been determined by ARB to be a TAC.

Diesel PM emissions are estimated to be responsible for about 70% of the total ambient air toxics risk. In addition to these general risks, diesel PM can also be responsible for elevated localized or near-source exposures ("hot-spots"). Depending on the activity and nearness to receptors, these potential risks can range from small to 1,500 per million or more (ARB 2000).

ARB staff have conducted risk characterization scenarios to determine the potential excess cancer risks involved when individuals are near various sources of diesel engine emissions, ranging from school buses to high volume freeways. The purpose of the risk characterization was to estimate, through air dispersion modeling, the cancer risk associated with typical diesel-fueled engine or vehicle activities based on modeled PM concentration at the point of maximum impact. The study included various sources of diesel PM emissions, including idling school buses, truck stops, low- and high-volume freeways, and other sources. High-volume freeways (20,000 trucks per day) were estimated to cause 800-1,700 per million potential excess cancers, while low-volume freeways (2,000 trucks per day) were estimated to cause about 100-200 per million potential excess cancers (ARB 2000a).

Besides diesel PM, several other pollutants that are a public health concern are emitted by vehicle exhausts. The USEPA has identified six pollutants of highest priority: diesel particulate matter, acrolein, acetaldehyde, formaldehyde, benzene, and 1,3-butadiene. The latter five pollutants are part of the total organic gases emitted by diesel and gasoline fueled vehicles. A brief description of each of these chemicals follows:

- **Acrolein** is the simplest unsaturated aldehyde. It is a widely produced substance with a piercing, disagreeable, acrid smell similar to that of burning fat. Acrolein is an unstable toxic substance that can burn the nose and throat and is a severe pulmonary irritant. It is a flammable and poisonous substance prepared industrially by the oxidation of propene. Small amounts of acrolein are formed and enter the air when trees, tobacco, other plants, gasoline, and oil are burned.
- **Acetaldehyde**, sometimes known as ethanol, is an organic chemical compound used as an intermediate in the production of acetic acid, certain esters, and a number of other chemicals. It is a flammable liquid with a fruity smell. Acetaldehyde is a toxic when applied externally for prolonged periods, an irritant, and a probable carcinogen.
- **Formaldehyde** is an organic chemical compound containing a terminal carbonyl group. It is produced in the atmosphere by the action of sunlight and oxygen on atmospheric methane and other hydrocarbons, becoming a part of smog. Additionally, formaldehyde is an intermediate in the oxidation (or combustion) of methane as well as other carbon compounds including automobile exhaust. Formaldehyde is a flammable substance that can be toxic, allergenic, and carcinogenic. It is naturally made in small amounts in human bodies and is found in small amounts in household sources, such as fiberglass, carpets, permanent press fabrics, paper products, and some household cleaners.
- **Benzene**, or benzol, is an organic chemical compound and a known carcinogen. It is a colorless and highly flammable liquid with a sweet smell and a relatively high melting point. Benzene is an important industrial solvent and precursor in the production of drugs, plastics, synthetic rubber, and dyes. Benzene is a natural constituent of crude oil and may be synthesized from other compounds present in petroleum. It is found in gasoline and cigarette smoke. Natural sources of benzene include emissions from volcanoes and forest fires.
- **1,3-Butadiene** is an important industrial chemical used in the production of synthetic rubber (about 75% of manufactured 1,3-butadiene), which is then used primarily in the production of automobile tires. It is a colorless gas with a mild gasoline-like odor. Gasoline contains small amounts that are exhausted into the air after the combustion process. It is a carcinogen, highly irritative, and flammable.

## 2.3 Air Quality Regulation

Federal and state governments have established ambient air quality standards for the protection of public health. The USEPA is the federal agency designated to administer air quality regulation, while the ARB is the state equivalent in the California Environmental Protection Agency (CalEPA). County-level Air Quality Management Districts (AQMDs) provide local management of air quality. The ARB has established air quality standards and is responsible for the control of mobile emission sources, while the local AQMDs are responsible for enforcing standards and regulating stationary sources. The ARB has established 15 air basins statewide.

The USEPA has set primary national ambient air quality standards for ozone, CO, nitrogen dioxide ($NO_2$), sulfur dioxide ($SO_2$), $PM_{10}$, $PM_{2.5}$, and lead (Pb). Primary standards are those levels of air quality deemed necessary, with an adequate margin of safety, to protect public health. In addition,

the State of California has established health-based ambient air quality standards for these and other pollutants, some of which are more stringent than the federal standards. Table 1 lists the current federal and state standards for regulated pollutants

**Table 1 Federal and State Ambient Air Quality Standards**

| Pollutant | Averaging Time | Federal Primary Standards | California Standard |
|---|---|---|---|
| Ozone | 8-Hour | 0.070 ppm | 0.07 ppm |
| | 1-Hour | --- | 0.09 ppm |
| Carbon Monoxide | 8-Hour | 9.0 ppm | 9.0 ppm |
| | 1-Hour | 35.0 ppm | 20.0 ppm |
| Nitrogen Dioxide | Annual | 0.053 ppm | 0.030 ppm |
| | 1-Hour | 0.100 ppm | 0.18 ppm |
| Sulfur Dioxide | 24-Hour | --- | 0.04 ppm |
| | 1-Hour | 0.075 ppm | 0.25 ppm |
| $PM_{10}$ | Annual | --- | 20 µg/m$^3$ |
| | 24-Hour | 150 µg/m$^3$ | 50 µg/m$^3$ |
| $PM_{25}$ | Annual | 12 µg/m$^3$ | 12 µg/m$^3$ |
| | 24-Hour | 35 µg/m$^3$ | --- |
| Lead | 30-Day Average | --- | 1.5 µg/m$^3$ |
| | 3-Month Average | 0.15 µg/m$^3$ | --- |

ppm = parts per million; µg/m$^3$ = micrograms per cubic meter
Source: ARB 2016.

The SCAQMD is the designated air quality control agency in the SCAB. The SCAB is designated in nonattainment for the federal and state one-hour and eight-hour ozone standards, the federal and state $PM_{2.5}$ standards, and the state $PM_{10}$ standards. The SCAB is designated unclassifiable/ attainment for all other federal and state standards.

## 2.4 Current Air Quality

The Compton-700 North Bullis Road Monitoring Station is located approximately 9.5 miles southeast of the project site. Table 2 indicates the number of days each of the standards has been exceeded at this station in each of the last three years for which data is available. Since data was not available for $PM_{10}$, the table lists $PM_{10}$ data from the Los Angeles-North Main Street Monitoring Station.

**Table 2 Ambient Air Quality Data**

| Pollutant | 2014 | 2015 | 2016 |
|---|---|---|---|
| Ozone (ppm) - 8-Hr Average | 0.081 | 0.072 | 0.071 |
| Number of Days of State exceedances (>0.070) | 4 | 1 | 1 |
| Number of days of Federal exceedances (>0.070) | 4 | 1 | 1 |
| Ozone (ppm) - Worst Hour | 0.094 | 0.091 | 0.098 |
| Number of days of State exceedances (>0.09 ppm) | 0 | 0 | 1 |
| Nitrogen Dioxide (ppm) - Worst Hour | 0.068 | 0.073 | 0.063 |
| Number of days of State exceedances (>0.18 ppm) | 0 | 0 | 0 |
| Particulate Matter <10 microns ($\mu g/m^3$) - Worst 24 Hours | 66.0 | 73.0 | 64.0 |
| Number of samples of State exceedances (>50 $\mu g/m^3$) | 38 | 30 | 21 |
| Number of samples of Federal exceedances (>150 $\mu g/m^3$) | 0 | 0 | 0 |
| Particulate Matter <2.5 microns ($\mu g/m^3$) - Worst 24 Hours | 35.8 | 41.3 | 36.3 |
| Number of days above Federal standard (>35 $\mu g/m^3$) | 1 | 3 | 1 |

Data was obtained for the Compton-700 North Bullis Road Monitoring Station. Since $PM_{10}$ data was unavailable at the Compton-700 North Bullis Road Monitoring Station, data from the Los Angeles-North Main Street Monitoring Station was obtained for $PM_{10}$.

Source: ARB 2016b.

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# 3 Impact Analysis

## 3.1 Methodology

Mobile source air toxics emissions associated with vehicle traffic on I-110 and its associated on- and off-ramps within 500 feet of the project site were estimated based on the methodology developed by the UC Davis-Caltrans Air Quality Project, Estimating Mobile Source Air Toxics Emissions [MSAT]: A Step-By-Step Project Analysis Methodology (2006). This spreadsheet application was designed to generate the total amount of the above six pollutants of concern based on total organic gases emission factors and particulate emission factors from EMFAC2014, as well as speciation factors from USEPA's Motor Vehicle Emission Simulator (MOVES 2014). These emission factors are then multiplied against traffic volumes for the mainline and ramp segments to obtain total emissions from I-110 within one half mile of the project site and from associated ramps within 500 feet of the project site. Emission factors for this study were based on grams per mile. Spreadsheet outputs adapted from the UC Davis-Caltrans MSAT model and composite emission rates are contained in Appendix A to this report.

For mainline emissions, emission factors were reviewed for speeds of 50 and 60 miles per hour (mph). The worst reasonable case speed (i.e., highest emission levels) was 50 mph for heavy duty trucks and 60 mph for light duty trucks and cars. Therefore, emissions were based on an average speed of 50 mph for heavy duty trucks and 60 mph for light duty trucks and cars. For ramp emissions, emission factors were based on speeds of 25 mph and 50 mph, depending on whether it was an on-ramp or off-ramp.

Traffic volumes for the I-110 mainline were obtained from Caltrans 2014 Annual Average Daily Traffic Volumes. According to the Caltrans traffic data (2014a), the Annual Average Daily Traffic (AADT) volume along the segment of I-110 east of the project site is 269,000 vehicles. Based on Caltrans 2014 Annual Average Daily Truck Traffic (2014b), truck traffic comprises approximately 4.52 percent of I-110 AADT. Ramp AADT were obtained from Caltrans 2014 Ramp Volumes on the California State Freeway System (2014c). The AADT on the on-ramp to the southbound HOV lane from 28th Street is 6,941 vehicles, and the AADT on the off-ramp from the northbound HOV lane to Adams Boulevard is 7,887 vehicles. Truck traffic percentages from I-110 were used for corresponding ramps.

The American Meteorological Society/USEPA air dispersion model, AERMOD version 16088, was utilized to calculate the concentrations of source emissions at the project site. Specific meteorology and terrain for the site were input to the model using the nearest available meteorological data set, SCAQMD's Central Los Angeles station. I-110 varies in elevation between approximately 54 and 64 meters above mean sea level (amsl) along the length of the approximately one-mile segment modeled. Ramps within 500 feet of the project site range in elevation from 61 to 68 meters amsl. Receptors on the project site are approximately 60 meters amsl. The dispersion model considers these differences in topography. The I-110 mainline within a half-mile of the project site and on and off ramps within 500 feet of the project site were modeled as a series of volume sources in AERMOD. AERMOD provides X/Q (CHI/Q = chi/q = $\chi/q$) values, the concentration estimated by the air quality model based on an emission rate of one gram per second.

For risk assessments conducted under the Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, Connelly, Statutes of 1987; Health and Safety Code Section 44300 et seq.), a weighting factor that reflects early life exposure is applied to all carcinogens regardless of purported mechanism of action. However, for this assessment, the HRA relies upon the USEPA's Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens (2005), whereby early life exposure adjustment factors are only considered when carcinogens act "through the mutagenic mode of action." The USEPA has identified 19 compounds that elicit a mutagenic mode of action for carcinogenesis. None of the gaseous compounds considered in the HRA elicit a mutagenic mode of action; thus, early life exposure adjustments were not considered in this analysis. Diesel particulates, polycyclic aromatic hydrocarbons and their derivatives, which are known to exhibit a mutagenic mode of action, constitute less than one percent of the exhaust particulate mass. To date, the USEPA reports that whole diesel engine exhaust has not been shown to elicit a mutagenic mode of action.

HARP 2 incorporates the early life exposure adjustments presented in OEHHA's 2015 Air Toxics Hotspots Program Guidance Manual for Preparation of Health Risk Assessments and, therefore, is not appropriate for calculating risk for this HRA. HARP On-Ramp was used to import air dispersion data from AERMOD into the HARP (ver. 1.4f) program for risk analysis because the risk calculation the HARP (ver. 1.4f) program performs does not include the weighting factor that reflects early life exposure adjustments.

HARP uses the X/Q values to estimate actual concentration by multiplying this value against the emission rate in grams per second. The HARP model then calculates excess cancer risk based on the emission concentration at each sensitive or grid receptor using the toxicity data contained in the HARP database. The chronic health risk value is calculated by the HARP model using the California Environmental Protection Agency, OEHHA method of dividing the annual average concentration by the chronic inhalation reference exposure level (REL) (ARB 2012). The acute health risk value is calculated using the OEHHA method of dividing the maximum one hour concentration by the acute inhalation REL (ARB 2012).

Three exposure pathways are considered for health effects: ingestion, dermal contact, and inhalation. The first two generally require direct contact with the contaminated medium (usually soil), while the latter includes the inhalation of vapors and respirable dust (usually in the form of PM10). Inhalation is the only available pathway for the exhaust vapors that contain acrolein, acetaldehyde, formaldehyde, benzene, and 1,3-butadiene. Diesel PM is a respirable dust that can potentially be ingested (oral) or enter the body through contact with contaminated soil. Oral or non-inhalation exposure pathways include the ingestion of soil, fish, drinking water from surface waters, mother's milk, homegrown produce, beef, pork, chicken, eggs, and cow's milk. With respect to diesel PM, the oral pathway is available only through ingestion of contaminated soil, similar to dermal contact. However, oral slope toxicity for diesel PM is not listed by the OEHHA or by the USEPA Integrated Risk Information System (IRIS) because toxicity studies have focused on the inhalation hazard. Therefore, only the inhalation pathway is considered in this risk assessment.

Excess cancer risk is based on a stay-at-home adult resident present at proposed residential units for the exposure durations of nine and 30 years. These correspond to the central tendency for the average time spent in a single residence (9-year, 50th percentile) and the high-end estimate for residency time (30-year, 95th percentile), which are SCAQMD's recommended exposure durations for sensitive and residential receptors (SCAQMD 2015a). HARP also uses the 9-year residency to calculate risk for child receptors.

## 3.2 Significance Thresholds

The USEPA's accepted risk management range for site-related exposures is one in 10,000 (1.0 x 10-4 or 1.0E-04) and one in one million (1.0 x 10-6 or 1.0E-06). In this range, site-specific conditions determine if the potential risk is acceptable. However, cancer risk above one in 10,000 is considered unacceptable and requires further action. Passage of Proposition 65 (encoded in California Health and Safety Code Section 25249.6) in 1986 prohibits a person in the course of doing business from knowingly and intentionally exposing any individual to a chemical that has been listed as known to the state to cause cancer or reproductive toxicity without first giving clear and reasonable warning. For a chemical that is listed as a carcinogen, the "no significant risk" level under Proposition 65 is defined as the level that is calculated to result in not more than one excess case of cancer in 100,000 individuals (1.0E-05). The SCAQMD recommends the use of this risk level (also reportable as 10 in one million) as the significance threshold for toxic air contaminants (SCAQMD 2015b).

In addition, the SCAQMD recommends that the non-carcinogenic hazards of toxic air contaminants should not exceed a hazard index of 1.0 for either chronic or acute effects (SCAQMD 2015b). For chronic and acute risks, the hazard index is calculated as the summation of the hazard quotients for all chemicals to which an individual would be exposed.

To provide a perspective on risk, the American Cancer Society (2007) reports that in the U.S., men have about a one in two chance (0.50 probability) and women about a one in three chance (0.33) of developing cancer during a lifetime, with almost one in four deaths (0.23) in the U.S. attributed to cancer. Based on this background cancer risk level in the general population, application of a 1.0E-05 excess risk limit means that the contribution from a toxic hazard should not cause the resultant cancer risk for the exposed population to exceed 0.50001 for men or 0.33001 for women.

## 3.3 Results

Health risks for two sensitive receptor locations on the project site were modeled. In addition, health risks at the sensitive receptors were analyzed on each floor of the proposed seven-story building. The Point of Maximum Impact (PMI), which is typically at the border of the source (freeway fence), was not calculated since it is not relevant to the analysis given the specific location of the proposed residences. A receptor grid was used to evaluate whether or not sensitive receptor locations reflected the pattern of exposure.

Cancer, acute, and chronic risks were determined at both receptor locations. Risk levels for the MEIR are shown in Table 3. Diesel exhaust particulates are the major source of excess cancer risk, as they are responsible for about 75 percent of the calculated risk at the MEIR. Refer to Appendix A for more detailed accounting of health risks at each receptor per pollutant of concern.

As shown in Table 3, the MEIR would be exposed to a high-end (95-percentile), 30-year excess cancer risk of approximately four in one million, which does not exceed SCAQMD's recommended health risk criteria of ten excess cases of cancer in one million individuals (1.0E-05) (SCAQMD 2015b). The excess cancer risk for the average (50-percentile) residency of nine years would be approximately one in one million for an adult and approximately two in one million for a child, both of which are below SCAQMD's cancer risk criteria. This analysis is based on outdoor air concentrations and conservatively assumes that interior concentrations would be the same. As shown in Table 3, potential acute and chronic (such as lung inflammation, immune suppression, and

immune sensitization) health risks were approximately 0.002 and 0.008, respectively, both of which are less than SCAQMD's health risk criteria of one.

**Table 3 Potential Health Risks at the MEIR**

| | Cancer Risk | | Chronic Risk | | Acute Risk | |
|---|---|---|---|---|---|---|
| **Exposure Duration** | **Excess Cancer Risk** | **Exceed Criterion? (>1.0E-05)** | **Chronic Hazard Quotient[1]** | **Exceed Criterion? (>1?)** | **Acute Hazard Quotient[1]** | **Exceed Criterion? (>1?)** |
| **9-Year Resident** | | | | | | |
| Adult | 1.23E-06 or 1 in one million | No | 0.008 | No | 0.002 | No |
| Child | 1.81E-06 or 2 in one million | No | 0.008 | No | 0.002 | No |
| **30-Year Resident** | 1.85E-05 | No | 0.008 | No | 0.002 | No |

[1] Note that chronic and acute risks do not change with increase in years as calculations terms cancel out.

Refer to Appendix A for complete model results.

# 4 Conclusions

The proposed use of the site would not expose on-site residents to significant excess cancer risks associated with vehicle emissions, specifically diesel exhaust particulates, based upon SCAQMD health risk guidelines and existing vehicle travel on I-110 and its associated ramps. The calculated risk is based on exposure to outdoor air 24 hours per day, but the USEPA Exposure Factors Handbook indicates that the recommended daily activity pattern includes 16.6 hours per day spent inside and 2.3 hours per day outside (2011; Table 16-16 Time Spent (minutes/day) in Various Rooms at Home and in All Rooms Combined, Doers Only and Table 16-22 Mean Time Spent (minutes/day) Outside and Inside, Adults 18 Years and Older, Doers Only).[1] Since the remaining daily time is spent offsite, this analysis provides a conservative estimate of health risk at the proposed site.

Furthermore, as a conservative simplifying assumption, this analysis assumes that residents would have the windows open sufficiently to equalize the concentration of pollutants between the indoor and outdoor environment. Whereas, a likely mitigating factor is that the diesel particulates would settle out to some unknown extent on window screens and other surfaces as outdoor air enters into the indoor air environment, though at least a portion of this settled material would become re-suspended during cleaning and other activities. Therefore, the simplifying assumption that outdoor air concentrations would be equal to indoor air concentrations results in a calculated risk that is likely to be nearly an order of magnitude higher than actual indoor risk and, subsequently, the model provides a conservative estimate of health risk.

Furthermore, current regulatory action by ARB is intended to reduce the amount of diesel exhaust particulates associated with on-road diesel trucks in the future (note that the analysis was based on year 2017 composite emission factors). Conversely, vehicle emissions are based on 2014 traffic estimates; truck traffic growth that may occur in the future along this portion of I-110 may result in increased emissions on a per mile basis, but such increases in truck traffic will be offset to some degree by changes in both the truck and non-diesel vehicle fleets as newer, less polluting vehicles become the majority portion of the fleet populations. Nonetheless, all potential health risks fall below SCAQMD's health risk criteria.

[1] "Doers Only" includes data for individuals that spent >0 time in motor vehicles and had 30 or more records are included in the USEPA Exposure Factors Handbook analysis.

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# Appendix A

Emissions Estimates (adapted from the UC Davis-Caltrans MSAT model), AERMOD Output, and HARP Risk Results

# Emissions Calculations - I-110

| AADT | AADT per direction | Caltrans Truck % | Number daily trucks | Diesel Truck * | Gas Truck * | LD Vehicles | LD Diesel ** | All Gas |
|---|---|---|---|---|---|---|---|---|
| 269,000 | 134,500 | 4.52% | 6,079 | 1,569 | 4,510 | 128,421 | 648 | 132,283 |

*Source: Caltrans Traffic Data Branch, 2014 AADT and Truck Traffic 2014*

* "Translation Factors" (the fractions below identify % of trucks that are diesel-powered; they translate Caltrans truck data into an estimate of diesel vehicles)

**Diesel Proportion:** 25.8%

**Non-Diesel Proportion:** 74.2%

*Translation Factors Source: UC Davis-Caltrans Air Quality Project, Project-Level Mobile Source Air Toxics Analysis*

** Light Duty Diesel proportion based on vehicle miles traveled for LDA, LDT1, and LDT2 for Year 2014, South Coast Air Basin , EMFAC2014.

| | Truck Diesel Vehicles | | Light Duty Diesel Vehicles | | All Gas Vehicles |
|---|---|---|---|---|---|
| **Speed (miles/hour)** | **hot stabilized exhaust PM (grams/mile)** | **hot stabilized exhaust TOG (grams/mile)** | **hot stabilized exhaust PM (grams/mile)** | **hot stabilized exhaust TOG (grams/mile)** | **hot stabilized exhaust TOG (grams/mile)** |
| 50 for trucks<br>60 for light duty and gas | 0.0550 | 0.1147 | 0.0241 | 0.0374 | 0.0516 |

*Source: EMFAC2014 Emissions Database*

**Mobile Source Air Toxics (MSAT) Speciation Factors Based on Proportion In TOG**

| Analysis Year | Diesel | | | | | Non-Diesel | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Hot Stabilized Exhaust | | | | | Hot Stabilized Exhaust | | | | |
| | benzene | 1,3-butadiene | Acetaldehyde | Acrolein | Formaldehyde | benzene | 1,3-butadiene | Acetaldehyde | Acrolein | Formaldehyde |
| 2017 | 0.007320 | 0.002292 | 0.034383 | 0.006088 | 0.082668 | 0.034539 | 0.002295 | 0.009056 | 0.000602 | 0.014238 |
| Total Daily Emissions, g/mi | 1.49 | 0.47 | 7.02 | 0.00 | 16.88 | 235.96 | 15.68 | 61.87 | 4.11 | 97.27 |

*Speciation Source: U.S. Environmental Protection Agency Motor Vehicle Emission Simulator (MOVES2014a).*

## Derivation of Emission Rates for I-110 Sources

| | | | | |
|---|---|---|---|---|
| Freeway width, one way | 78.7 feet | 24 m | 5 lanes | |
| Each direction segment at | 787.4 feet long | 240 m | | |

| | Emissions | | | | | |
|---|---|---|---|---|---|---|
| | Diesel PM | Benzene | 1,3-Butadiene | Acetaldehyde | Acrolein | Formaldehyde |
| grams/mi/day ** | 101.8 | 237.45 | 16.15 | 68.89 | 4.11 | 114.15 |
| lbs/hour/segment | 0.0014 | 0.0033 | 0.00022 | 0.0009 | 0.00006 | 0.00156 |
| lbs/day/segment | 0.0335 | 0.0781 | 0.0053 | 0.0226 | 0.0014 | 0.0375 |
| lbs/year/segment *** | 12.2 | 28.49 | 1.94 | 8.27 | 0.49 | 13.70 |

** Total emissions per mile calculated using the above speciation factors.

*** Based on 365 day/year

**Ramp Key and Caltrans Traffic Volumes - Ramp AADT**
10/31/2016

| Ramp # | Post Mile | Description | Lanes # | Width (m) + Mixing Zone | ADT | Source Year | Speed |
|---|---|---|---|---|---|---|---|
| 1a | 20.458 | SB HOV lane on from 28th St | 1 | 9.5 | 6941 | 2014 | 50 |
| 1b | 20.458 | SB HOV lane on from 28th St | 2 | 21 | 6941 | 2014 | 50 |
| 2a | 20.54 | NB HOV lane off to Adams Blvd | 2 | 24.3 | 7887 | 2014 | 25 |
| 2b | 20.54 | NB HOV lane off to Adams Blvd | 1 | 9.2 | 7887 | 2014 | 25 |

# Emissions Calculations - Ramp #1 (SB HOV lane on from 28th St)

| AADT | AADT per direction | Caltrans Truck % | Number daily trucks | Diesel Truck * | Gas Truck * | LD Vehicles | LD Diesel ** | All Gas |
|---|---|---|---|---|---|---|---|---|
| 6,941 | 6,941 | 4.52% | 314 | 81 | 233 | 6,627 | 33 | 6,827 |

*Source: Caltrans Traffic Data Branch, 2014 Ramp AADT and Truck Traffic 2014 (Percentage from I-10)*

* "Translation Factors" (the fractions below identify % of trucks that are diesel-powered; they translate Caltrans truck data into an estimate of diesel vehicles)

**Diesel Proportion:** 25.8%

**Non-Diesel Proportion:** 74.2%

*Translation Factors Source: UC Davis-Caltrans Air Quality Project, Project-Level Mobile Source Air Toxics Analysis*

** Light Duty Diesel proportion based on vehicle miles traveled for LDA, LDT1, and LDT2 for Year 2014, South Coast Air Basin , EMFAC2014.

| | Truck Diesel Vehicles | | Light Duty Diesel Vehicles | | All Gas Vehicles |
|---|---|---|---|---|---|
| **Speed (miles/hour)** | **hot stabilized exhaust PM (grams/mile)** | **hot stabilized exhaust TOG (grams/mile)** | **hot stabilized exhaust PM (grams/mile)** | **hot stabilized exhaust TOG (grams/mile)** | **hot stabilized exhaust TOG (grams/mile)** |
| 50 | 0.0550 | 0.1147 | 0.0214 | 0.0342 | 0.0472 |

*Source: EMFAC2014 Emissions Database*

**Mobile Source Air Toxics (MSAT) Speciation Factors Based on Proportion In TOG**

| Analysis Year | Diesel | | | | | Non-Diesel | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Hot Stabilized Exhaust | | | | | Hot Stabilized Exhaust | | | | |
| | benzene | 1,3-butadiene | Acetaldehyde | Acrolein | Formaldehyde | benzene | 1,3-butadiene | Acetaldehyde | Acrolein | Formaldehyde |
| 2017 | 0.007320 | 0.002292 | 0.034383 | 0.006088 | 0.082668 | 0.034539 | 0.002295 | 0.009056 | 0.000602 | 0.014238 |
| Total Daily Emissions, g/mi | 0.08 | 0.02 | 0.36 | 0.00 | 0.86 | 11.12 | 0.74 | 2.92 | 0.19 | 4.58 |

*Speciation Source: U.S. Environmental Protection Agency Motor Vehicle Emission Simulator (MOVES2014a).*

## Derivation of Emission Rates for Sources: Ramp #2 (SB HOV lane on from 28th St)

| | | | |
|---|---|---|---|
| Ramp width, one way | 31.2 feet | 9.5 m | 1 lane |
| Each direction segment at | 311.7 feet long | 95 m | |

**Emissions**

| | Diesel PM | Benzene | 1,3-Butadiene | Acetaldehyde | Acrolein | Formaldehyde |
|---|---|---|---|---|---|---|
| grams/mi/day ** | 5.2 | 11.20 | 0.76 | 3.27 | 0.19 | 5.45 |
| lbs/hour/segment | 0.0000 | 0.0001 | 0.00000 | 0.0000 | 0.00000 | 0.00003 |
| lbs/day/segment | 0.0007 | 0.0015 | 0.0001 | 0.0004 | 0.0000 | 0.0007 |
| lbs/year/segment *** | 0.2 | 0.53 | 0.04 | 0.16 | 0.01 | 0.26 |

| | | | |
|---|---|---|---|
| Ramp width, one way | 68.9 feet | 21 m | 2 lanes |
| Each direction segment at | 689.0 feet long | 210 m | |

**Emissions**

| | Diesel PM | Benzene | 1,3-Butadiene | Acetaldehyde | Acrolein | Formaldehyde |
|---|---|---|---|---|---|---|
| grams/mi/day ** | 5.2 | 11.20 | 0.76 | 3.27 | 0.19 | 5.45 |
| lbs/hour/segment | 0.0001 | 0.0001 | 0.0000 | 0.0000 | 0.0000 | 0.0001 |
| lbs/day/segment | 0.0015 | 0.0032 | 0.0002 | 0.0009 | 0.0001 | 0.0016 |
| lbs/year/segment *** | 0.5 | 1.18 | 0.08 | 0.34 | 0.02 | 0.57 |

** Total emissions per mile calculated using the above speciation factors.

*** Based on 365 day/year

# Emissions Calculations - Ramp #2 (NB HOV lane off to Adams Blvd)

| AADT | AADT per direction | Caltrans Truck % | Number daily trucks | Diesel Truck * | Gas Truck * | LD Vehicles | LD Diesel ** | All Gas |
|---|---|---|---|---|---|---|---|---|
| 7,887 | 7,887 | 4.52% | 356 | 92 | 264 | 7,531 | 38 | 7,757 |

*Source: Caltrans Traffic Data Branch, 2014 Ramp AADT and Truck Traffic 2014 (Percentage from I-10)*

* "Translation Factors" (the fractions below identify % of trucks that are diesel-powered; they translate Caltrans truck data into an estimate of diesel vehicles)

**Diesel Proportion:** 25.8%

**Non-Diesel Proportion:** 74.2%

*Translation Factors Source: UC Davis-Caltrans Air Quality Project, Project-Level Mobile Source Air Toxics Analysis*

** Light Duty Diesel proportion based on vehicle miles traveled for LDA, LDT1, and LDT2 for Year 2014, South Coast Air Basin , EMFAC2014.

| | Truck Diesel Vehicles | | Light Duty Diesel Vehicles | | All Gas Vehicles |
|---|---|---|---|---|---|
| **Speed (miles/hour)** | **hot stabilized exhaust PM (grams/mile)** | **hot stabilized exhaust TOG (grams/mile)** | **hot stabilized exhaust PM (grams/mile)** | **hot stabilized exhaust TOG (grams/mile)** | **hot stabilized exhaust TOG (grams/mile)** |
| 25 | 0.0593 | 0.3372 | 0.0336 | 0.0605 | 0.0859 |

*Source: EMFAC2014 Emissions Database*

**Mobile Source Air Toxics (MSAT) Speciation Factors Based on Proportion In TOG**

| Analysis Year | Diesel | | | | | Non-Diesel | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Hot Stabilized Exhaust | | | | | Hot Stabilized Exhaust | | | | |
| | benzene | 1,3-butadiene | Acetaldehyde | Acrolein | Formaldehyde | benzene | 1,3-butadiene | Acetaldehyde | Acrolein | Formaldehyde |
| 2017 | 0.007320 | 0.002292 | 0.034383 | 0.006088 | 0.082668 | 0.034539 | 0.002295 | 0.009056 | 0.000602 | 0.014238 |
| Total Daily Emissions, g/mi | 0.24 | 0.08 | 1.15 | 0.00 | 2.75 | 23.01 | 1.53 | 6.03 | 0.40 | 9.48 |

*Speciation Source: U.S. Environmental Protection Agency Motor Vehicle Emission Simulator (MOVES2014a).*

## Derivation of Emission Rates for Sources: Ramp #2 (NB HOV lane off to Adams Blvd)

Ramp width, one way 79.7 feet 24.3 m 2 lanes

Each direction segment at 797.2 feet long 243 m

| | Emissions | | | | | |
|---|---|---|---|---|---|---|
| | Diesel PM | Benzene | 1,3-Butadiene | Acetaldehyde | Acrolein | Formaldehyde |
| grams/mi/day ** | 6.7 | 23.25 | 1.61 | 7.18 | 0.40 | 12.24 |
| lbs/hour/segment | 0.0001 | 0.0003 | 0.00002 | 0.0001 | 0.00001 | 0.00017 |
| lbs/day/segment | 0.0022 | 0.0077 | 0.0005 | 0.0024 | 0.0001 | 0.0041 |
| lbs/year/segment *** | 0.8 | 2.83 | 0.20 | 0.87 | 0.05 | 1.49 |

Ramp width, one way 30.2 feet 9.2 m 1 lane

Each direction segment at 301.8 feet long 92 m

| | Emissions | | | | | |
|---|---|---|---|---|---|---|
| | Diesel PM | Benzene | 1,3-Butadiene | Acetaldehyde | Acrolein | Formaldehyde |
| grams/mi/day ** | 6.7 | 23.25 | 1.61 | 7.18 | 0.40 | 12.24 |
| lbs/hour/segment | 0.0000 | 0.0001 | 0.0000 | 0.0000 | 0.0000 | 0.0001 |
| lbs/day/segment | 0.0008 | 0.0029 | 0.0002 | 0.0009 | 0.0001 | 0.0015 |
| lbs/year/segment *** | 0.3 | 1.07 | 0.07 | 0.33 | 0.02 | 0.56 |

** Total emissions per mile calculated using the above speciation factors.

*** Based on 365 day/year

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   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 9862049 LosAngeles 1.0
   POLLUTID OTHER
   RUNORNOT RUN
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CO FINISHED
**
**SOURCES
SO STARTING
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   LOCATION 1012 VOLUME  382045  3765284  58.56
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   LOCATION 3002 VOLUME  382145  3765607  54.94
   LOCATION 3003 VOLUME  382113  3765516  54.96
   LOCATION 3004 VOLUME  382078  3765427  57.5
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   LOCATION 3015 VOLUME  382097  3765440  57.06
   LOCATION 3016 VOLUME  382134  3765524  54.76
   LOCATION 3017 VOLUME  382170  3765608  54.7
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  SRCPARAM 1004 1 3 55.8  3.2
  SRCPARAM 1005 1 3 55.8  3.2
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  SRCPARAM 3014 1 3.05 21.4  2.15
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  SRCGROUP 1002 1002
  SRCGROUP 1003 1003
  SRCGROUP 1004 1004
  SRCGROUP 1005 1005
  SRCGROUP 1006 1006
  SRCGROUP 1007 1007
  SRCGROUP 1008 1008
  SRCGROUP 1009 1009
  SRCGROUP 1010 1010
  SRCGROUP 1011 1011
  SRCGROUP 1012 1012
  SRCGROUP 1013 1013
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  SRCGROUP 3018 3018
  SRCGROUP 3019 3019
  SRCGROUP 3020 3020
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RE FINISHED
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ME PROFFILE "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\cela8.pfl"
ME SURFDATA 0 2006
ME UAIRDATA 3190 2006
ME SITEDATA 99999 2006
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ME FINISHED
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  RECTABLE 1 1ST
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PLOTFILE PERIOD 1011 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD1011.PLT" 75
PLOTFILE PERIOD 1012 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD1012.PLT" 76
PLOTFILE PERIOD 1013 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD1013.PLT" 77
PLOTFILE PERIOD 1014 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD1014.PLT" 78
PLOTFILE PERIOD 3001 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3001.PLT" 79
PLOTFILE PERIOD 3002 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3002.PLT" 80
PLOTFILE PERIOD 3003 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3003.PLT" 81
PLOTFILE PERIOD 3004 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3004.PLT" 82
PLOTFILE PERIOD 3005 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3005.PLT" 83
PLOTFILE PERIOD 3006 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3006.PLT" 84
PLOTFILE PERIOD 3007 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3007.PLT" 85
PLOTFILE PERIOD 3008 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3008.PLT" 86
PLOTFILE PERIOD 3009 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3009.PLT" 87
PLOTFILE PERIOD 3010 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3010.PLT" 88
```

```
  PLOTFILE PERIOD 3011 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3011.PLT" 89
  PLOTFILE PERIOD 3012 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3012.PLT" 90
  PLOTFILE PERIOD 3013 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3013.PLT" 91
  PLOTFILE PERIOD 3014 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3014.PLT" 92
  PLOTFILE PERIOD 3015 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3015.PLT" 93
  PLOTFILE PERIOD 3016 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3016.PLT" 94
  PLOTFILE PERIOD 3017 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3017.PLT" 95
  PLOTFILE PERIOD 3018 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3018.PLT" 96
  PLOTFILE PERIOD 3019 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3019.PLT" 97
  PLOTFILE PERIOD 3020 "C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\plt\PERIOD3020.PLT" 98
OU FINISHED


 *** Message Summary For AERMOD Model Setup ***

 --------- Summary of Total Messages --------

 A Total of          0 Fatal Error Message(s)
 A Total of          1 Warning Message(s)
 A Total of          0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
          ***  NONE  ***


   ********   WARNING MESSAGES   ********
 CO W200       6       TITLES: Missing Parameter(s). No Options Specified For        TITLETWO

 ************************************
 *** SETUP Finishes Successfully ***
 ************************************

♀*** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                              ***       11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                   ***       15:31:34
                                                                                     PAGE   1
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                                 ***     MODEL SETUP OPTIONS SUMMARY      ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for    34 Source(s),
```

```
 for Total of    1 Urban Area(s):
 Urban Population =   9862049.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
      1. Stack-tip Downwash.
      2. Model Accounts for ELEVated Terrain Effects.
      3. Use Calms Processing Routine.
      4. Use Missing Data Processing Routine.
      5. No Exponential Decay.
      6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
      TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  OTHER

**Model Calculates  1 Short Term Average(s) of:   1-HR
   and Calculates PERIOD Averages

**This Run Includes:     34 Source(s);      34 Source Group(s); and     114 Receptor(s)

           with:      0 POINT(s), including
                    0 POINTCAP(s) and      0 POINTHOR(s)
            and:     34 VOLUME source(s)
            and:      0 AREA type source(s)
            and:      0 LINE source(s)
            and:      0 OPENPIT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  14134

**Output Options Selected:
       Model Outputs Tables of PERIOD Averages by Receptor
       Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
       Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    87.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
            Emission Units = GRAMS/SEC                          ;  Emission Rate Unit Factor =   0.10000E+07
            Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.7 MB of RAM.
```

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|---|---|---|---|---|---|---|---|---|---|---|
| 1001 | 0 | 0.10000E+01 | 382109.0 | 3765523.0 | 54.9 | 3.00 | 55.80 | 3.20 | YES | |
| 1002 | 0 | 0.10000E+01 | 382007.0 | 3765305.0 | 58.2 | 3.00 | 55.80 | 3.20 | YES | |
| 1003 | 0 | 0.10000E+01 | 381893.0 | 3765093.0 | 61.0 | 3.00 | 55.80 | 3.20 | YES | |
| 1004 | 0 | 0.10000E+01 | 381780.0 | 3764881.0 | 60.8 | 3.00 | 55.80 | 3.20 | YES | |
| 1005 | 0 | 0.10000E+01 | 382222.0 | 3765734.0 | 54.8 | 3.00 | 55.80 | 3.20 | YES | |
| 1006 | 0 | 0.10000E+01 | 382327.0 | 3765949.0 | 60.5 | 3.00 | 55.80 | 3.20 | YES | |
| 1007 | 0 | 0.10000E+01 | 382338.0 | 3766187.0 | 60.9 | 3.00 | 55.80 | 3.20 | YES | |
| 1008 | 0 | 0.10000E+01 | 382149.0 | 3765502.0 | 54.9 | 3.00 | 55.80 | 3.20 | YES | |
| 1009 | 0 | 0.10000E+01 | 382239.0 | 3765725.0 | 54.7 | 3.00 | 55.80 | 3.20 | YES | |
| 1010 | 0 | 0.10000E+01 | 382340.0 | 3765942.0 | 60.5 | 3.00 | 55.80 | 3.20 | YES | |
| 1011 | 0 | 0.10000E+01 | 382356.0 | 3766179.0 | 60.7 | 3.00 | 55.80 | 3.20 | YES | |
| 1012 | 0 | 0.10000E+01 | 382045.0 | 3765284.0 | 58.6 | 3.00 | 55.80 | 3.20 | YES | |
| 1013 | 0 | 0.10000E+01 | 381931.0 | 3765073.0 | 61.0 | 3.00 | 55.80 | 3.20 | YES | |
| 1014 | 0 | 0.10000E+01 | 381830.0 | 3764854.0 | 61.0 | 3.00 | 55.80 | 3.20 | YES | |
| 3001 | 0 | 0.10000E+01 | 382189.0 | 3765692.0 | 54.9 | 3.05 | 22.10 | 2.17 | YES | |
| 3002 | 0 | 0.10000E+01 | 382145.0 | 3765607.0 | 54.9 | 3.05 | 22.10 | 2.17 | YES | |
| 3003 | 0 | 0.10000E+01 | 382113.0 | 3765516.0 | 55.0 | 3.05 | 22.10 | 2.17 | YES | |
| 3004 | 0 | 0.10000E+01 | 382078.0 | 3765427.0 | 57.5 | 3.05 | 22.10 | 2.17 | YES | |
| 3005 | 0 | 0.10000E+01 | 382043.0 | 3765338.0 | 58.4 | 3.05 | 22.10 | 2.17 | YES | |
| 3006 | 0 | 0.10000E+01 | 381999.0 | 3765253.0 | 58.7 | 3.05 | 22.10 | 2.17 | YES | |
| 3007 | 0 | 0.10000E+01 | 381955.0 | 3765167.0 | 61.0 | 3.05 | 22.10 | 2.17 | YES | |
| 3008 | 0 | 0.10000E+01 | 381879.0 | 3765034.0 | 61.0 | 3.05 | 48.80 | 2.99 | YES | |
| 3009 | 0 | 0.10000E+01 | 381785.0 | 3764846.0 | 60.9 | 3.05 | 48.80 | 2.99 | YES | |
| 3010 | 0 | 0.10000E+01 | 381855.0 | 3764963.0 | 61.0 | 3.05 | 56.50 | 3.22 | YES | |
| 3011 | 0 | 0.10000E+01 | 381933.0 | 3765113.0 | 61.0 | 3.05 | 21.40 | 2.15 | YES | |
| 3012 | 0 | 0.10000E+01 | 381978.0 | 3765193.0 | 61.0 | 3.05 | 21.40 | 2.15 | YES | |
| 3013 | 0 | 0.10000E+01 | 382021.0 | 3765274.0 | 58.6 | 3.05 | 21.40 | 2.15 | YES | |
| 3014 | 0 | 0.10000E+01 | 382061.0 | 3765357.0 | 58.5 | 3.05 | 21.40 | 2.15 | YES | |
| 3015 | 0 | 0.10000E+01 | 382097.0 | 3765440.0 | 57.1 | 3.05 | 21.40 | 2.15 | YES | |
| 3016 | 0 | 0.10000E+01 | 382134.0 | 3765524.0 | 54.8 | 3.05 | 21.40 | 2.15 | YES | |
| 3017 | 0 | 0.10000E+01 | 382170.0 | 3765608.0 | 54.7 | 3.05 | 21.40 | 2.15 | YES | |
| 3018 | 0 | 0.10000E+01 | 382219.0 | 3765686.0 | 54.7 | 3.05 | 21.40 | 2.15 | YES | |
| 3019 | 0 | 0.10000E+01 | 382272.0 | 3765760.0 | 54.1 | 3.05 | 21.40 | 2.15 | YES | |
| 3020 | 0 | 0.10000E+01 | 382321.0 | 3765837.0 | 56.1 | 3.05 | 21.40 | 2.15 | YES | |

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| 1001 | 1001 , |
| 1002 | 1002 , |
| 1003 | 1003 , |
| 1004 | 1004 , |
| 1005 | 1005 , |
| 1006 | 1006 , |
| 1007 | 1007 , |
| 1008 | 1008 , |
| 1009 | 1009 , |
| 1010 | 1010 , |
| 1011 | 1011 , |
| 1012 | 1012 , |
| 1013 | 1013 , |
| 1014 | 1014 , |
| 3001 | 3001 , |
| 3002 | 3002 , |
| 3003 | 3003 , |
| 3004 | 3004 , |
| 3005 | 3005 , |
| 3006 | 3006 , |

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

| SRCGROUP ID | SOURCE IDs |
|---|---|
| 3007 | 3007 , |
| 3008 | 3008 , |
| 3009 | 3009 , |
| 3010 | 3010 , |
| 3011 | 3011 , |
| 3012 | 3012 , |
| 3013 | 3013 , |
| 3014 | 3014 , |
| 3015 | 3015 , |
| 3016 | 3016 , |
| 3017 | 3017 , |
| 3018 | 3018 , |
| 3019 | 3019 , |
| 3020 | 3020 , |


**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

| URBAN ID | URBAN POP | SOURCE IDs |
|---|---|---|

9862049. 1001 , 1002 , 1003 , 1004 , 1005 , 1006 , 1007 ,
1008 ,

1009 , 1010 , 1011 , 1012 , 1013 , 1014 , 3001 , 3002 ,

3003 , 3004 , 3005 , 3006 , 3007 , 3008 , 3009 , 3010 ,

3011 , 3012 , 3013 , 3014 , 3015 , 3016 , 3017 , 3018 ,

3019 , 3020 ,

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

381954.0, 381974.0, 381994.0, 382014.0, 382034.0, 382054.0, 382074.0, 382094.0, 382114.0, 382134.0,

*** Y-COORDINATES OF GRID ***
(METERS)

3765460.0, 3765480.0, 3765500.0, 3765520.0, 3765540.0, 3765560.0, 3765580.0, 3765600.0, 3765620.0, 3765640.0,

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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 57.40 | 57.20 | 56.90 | 56.50 | 56.20 | 56.00 | 55.70 | 55.50 | 55.30 |
| 3765620.00 | 57.40 | 57.20 | 56.80 | 56.50 | 56.10 | 55.80 | 55.50 | 55.30 | 55.20 |
| 3765600.00 | 57.50 | 57.20 | 56.80 | 56.40 | 56.10 | 55.70 | 55.50 | 55.20 | 55.00 |
| 3765580.00 | 57.60 | 57.30 | 56.90 | 56.50 | 56.10 | 55.60 | 55.40 | 55.20 | 55.00 |
| 3765560.00 | 57.60 | 57.30 | 56.90 | 56.40 | 56.10 | 55.70 | 55.30 | 55.10 | 55.00 |
| 3765540.00 | 57.70 | 57.40 | 57.00 | 56.60 | 56.00 | 55.60 | 55.40 | 55.10 | 54.90 |
| 3765520.00 | 57.70 | 57.40 | 57.10 | 56.60 | 56.20 | 55.80 | 55.40 | 55.10 | 54.90 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3765500.00 | 57.80 | 57.60 | 57.30 | 56.80 | 56.40 | 56.00 | 55.60 | 55.30 | 55.10 |
| 3765480.00 | 57.70 | 57.60 | 57.30 | 57.00 | 56.60 | 56.20 | 55.90 | 55.70 | 55.60 |
| 3765460.00 | 57.70 | 57.70 | 57.50 | 57.20 | 56.90 | 56.70 | 56.50 | 56.40 | 56.20 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 55.10 |
| 3765620.00 | 55.00 |
| 3765600.00 | 55.00 |
| 3765580.00 | 54.80 |
| 3765560.00 | 54.70 |
| 3765540.00 | 54.70 |
| 3765520.00 | 54.80 |
| 3765500.00 | 55.10 |
| 3765480.00 | 55.40 |
| 3765460.00 | 56.10 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 57.40 | 57.20 | 56.90 | 56.50 | 56.20 | 56.00 | 55.70 | 55.50 | 55.30 |
| 3765620.00 | 57.40 | 57.20 | 56.80 | 56.50 | 56.10 | 55.80 | 55.50 | 55.30 | 55.20 |
| 3765600.00 | 57.50 | 57.20 | 56.80 | 56.40 | 56.10 | 55.70 | 55.50 | 55.20 | 55.00 |
| 3765580.00 | 57.60 | 57.30 | 56.90 | 56.50 | 56.10 | 55.60 | 55.40 | 55.20 | 55.00 |
| 3765560.00 | 57.60 | 57.30 | 56.90 | 56.40 | 56.10 | 55.70 | 55.30 | 55.10 | 55.00 |
| 3765540.00 | 57.70 | 57.40 | 57.00 | 56.60 | 56.00 | 55.60 | 55.40 | 55.10 | 54.90 |
| 3765520.00 | 57.70 | 57.40 | 57.10 | 56.60 | 56.20 | 55.80 | 55.40 | 55.10 | 54.90 |
| 3765500.00 | 57.80 | 57.60 | 57.30 | 56.80 | 56.40 | 56.00 | 55.60 | 55.30 | 55.10 |
| 3765480.00 | 57.70 | 57.60 | 57.30 | 57.00 | 56.60 | 56.20 | 55.90 | 55.70 | 55.60 |
| 3765460.00 | 57.70 | 57.70 | 57.50 | 57.20 | 56.90 | 56.70 | 56.50 | 56.40 | 56.20 |

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 55.10 |
| 3765620.00 | 55.00 |
| 3765600.00 | 55.00 |
| 3765580.00 | 54.80 |
| 3765560.00 | 54.70 |
| 3765540.00 | 54.70 |
| 3765520.00 | 54.80 |
| 3765500.00 | 55.10 |
| 3765480.00 | 55.40 |
| 3765460.00 | 56.10 |



*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
( 382071.0, 3765565.0,    55.4,    55.4,    0.0);    ( 382071.0, 3765565.0,    55.4,    55.4,    0.0);
( 382071.0, 3765565.0,    55.4,    55.4,    0.0);    ( 382071.0, 3765565.0,    55.4,    55.4,    0.0);
( 382071.0, 3765565.0,    55.4,    55.4,    0.0);    ( 382071.0, 3765565.0,    55.4,    55.4,    0.0);
( 382071.0, 3765565.0,    55.4,    55.4,    0.0);    ( 382051.0, 3765530.0,    55.7,    55.7,    0.0);
( 382051.0, 3765530.0,    55.7,    55.7,    0.0);    ( 382051.0, 3765530.0,    55.7,    55.7,    0.0);
( 382051.0, 3765530.0,    55.7,    55.7,    0.0);    ( 382051.0, 3765530.0,    55.7,    55.7,    0.0);
( 382051.0, 3765530.0,    55.7,    55.7,    0.0);    ( 382051.0, 3765530.0,    55.7,    55.7,    0.0);
```



* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

| SOURCE ID | - - RECEPTOR LOCATION - - XR (METERS) | YR (METERS) | DISTANCE (METERS) |
|---|---|---|---|

| | | | |
|---|---|---|---|
| 1001 | 382014.0 | 3765460.0 | -5.98 |
| 1001 | 382034.0 | 3765460.0 | -22.02 |
| 1001 | 382054.0 | 3765460.0 | -36.34 |
| 1001 | 382074.0 | 3765460.0 | -47.90 |
| 1001 | 382094.0 | 3765460.0 | -55.21 |
| 1001 | 382114.0 | 3765460.0 | -56.77 |
| 1001 | 382134.0 | 3765460.0 | -52.19 |
| 1001 | 382014.0 | 3765480.0 | -15.69 |
| 1001 | 382034.0 | 3765480.0 | -33.52 |
| 1001 | 382054.0 | 3765480.0 | -50.16 |
| 1001 | 382074.0 | 3765480.0 | -64.53 |
| 1001 | 382094.0 | 3765480.0 | -74.43 |
| 1001 | 382114.0 | 3765480.0 | -76.68 |
| 1001 | 382134.0 | 3765480.0 | -70.23 |
| 1001 | 381994.0 | 3765500.0 | -2.69 |
| 1001 | 382014.0 | 3765500.0 | -22.23 |
| 1001 | 382034.0 | 3765500.0 | -41.52 |
| 1001 | 382054.0 | 3765500.0 | -60.35 |
| 1001 | 382074.0 | 3765500.0 | -78.09 |
| 1001 | 382094.0 | 3765500.0 | -92.51 |
| 1001 | 382114.0 | 3765500.0 | -96.43 |
| 1001 | 382134.0 | 3765500.0 | -86.00 |
| 1001 | 381994.0 | 3765520.0 | -4.93 |
| 1001 | 382014.0 | 3765520.0 | -24.92 |
| 1001 | 382034.0 | 3765520.0 | -44.91 |
| 1001 | 382054.0 | 3765520.0 | -64.89 |
| 1001 | 382074.0 | 3765520.0 | -84.84 |
| 1001 | 382094.0 | 3765520.0 | -104.67 |
| 1001 | 382114.0 | 3765520.0 | -114.14 |
| 1001 | 382134.0 | 3765520.0 | -94.79 |
| 1001 | 381994.0 | 3765540.0 | -3.72 |
| 1001 | 382014.0 | 3765540.0 | -23.46 |
| 1001 | 382034.0 | 3765540.0 | -43.07 |
| 1001 | 382054.0 | 3765540.0 | -62.40 |
| 1001 | 382074.0 | 3765540.0 | -81.06 |
| 1001 | 382094.0 | 3765540.0 | -97.30 |
| 1001 | 382114.0 | 3765540.0 | -102.25 |
| 1001 | 382134.0 | 3765540.0 | -89.74 |
| 1001 | 381994.0 | 3765560.0 | 0.84 |
| 1001 | 382014.0 | 3765560.0 | -18.02 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

| SOURCE ID | - - RECEPTOR LOCATION - - XR (METERS) | YR (METERS) | DISTANCE (METERS) |
|---|---|---|---|
| 1001 | 382034.0 | 3765560.0 | -36.34 |
| 1001 | 382054.0 | 3765560.0 | -53.68 |
| 1001 | 382074.0 | 3765560.0 | -69.04 |
| 1001 | 382094.0 | 3765560.0 | -80.05 |
| 1001 | 382114.0 | 3765560.0 | -82.63 |
| 1001 | 382134.0 | 3765560.0 | -75.32 |
| 1001 | 382014.0 | 3765580.0 | -9.18 |
| 1001 | 382034.0 | 3765580.0 | -25.77 |
| 1001 | 382054.0 | 3765580.0 | -40.76 |
| 1001 | 382074.0 | 3765580.0 | -53.08 |
| 1001 | 382094.0 | 3765580.0 | -61.03 |
| 1001 | 382114.0 | 3765580.0 | -62.75 |
| 1001 | 382134.0 | 3765580.0 | -57.73 |
| 1001 | 382034.0 | 3765600.0 | -12.48 |
| 1001 | 382054.0 | 3765600.0 | -25.34 |
| 1001 | 382074.0 | 3765600.0 | -35.39 |
| 1001 | 382094.0 | 3765600.0 | -41.52 |
| 1001 | 382114.0 | 3765600.0 | -42.81 |
| 1001 | 382134.0 | 3765600.0 | -39.01 |
| 1001 | 382054.0 | 3765620.0 | -8.46 |
| 1001 | 382074.0 | 3765620.0 | -16.85 |
| 1001 | 382094.0 | 3765620.0 | -21.82 |
| 1001 | 382114.0 | 3765620.0 | -22.84 |
| 1001 | 382134.0 | 3765620.0 | -19.80 |
| 1001 | 382094.0 | 3765640.0 | -2.01 |
| 1001 | 382114.0 | 3765640.0 | -2.86 |
| 1001 | 382134.0 | 3765640.0 | -0.33 |
| 1001 | 382071.0 | 3765565.0 | -63.33 |
| 1001 | 382071.0 | 3765565.0 | -63.33 |
| 1001 | 382071.0 | 3765565.0 | -63.33 |
| 1001 | 382071.0 | 3765565.0 | -63.33 |
| 1001 | 382071.0 | 3765565.0 | -63.33 |
| 1001 | 382071.0 | 3765565.0 | -63.33 |
| 1001 | 382071.0 | 3765565.0 | -63.33 |
| 1001 | 382051.0 | 3765530.0 | -61.55 |
| 1001 | 382051.0 | 3765530.0 | -61.55 |
| 1001 | 382051.0 | 3765530.0 | -61.55 |
| 1001 | 382051.0 | 3765530.0 | -61.55 |
| 1001 | 382051.0 | 3765530.0 | -61.55 |
| 1001 | 382051.0 | 3765530.0 | -61.55 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *

LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

| SOURCE ID | - - RECEPTOR LOCATION - - XR (METERS) | YR (METERS) | DISTANCE (METERS) |
|---|---|---|---|
| 1001 | 382051.0 | 3765530.0 | -61.55 |
| 1008 | 382054.0 | 3765460.0 | -16.10 |
| 1008 | 382074.0 | 3765460.0 | -34.01 |
| 1008 | 382094.0 | 3765460.0 | -50.77 |
| 1008 | 382114.0 | 3765460.0 | -65.30 |
| 1008 | 382134.0 | 3765460.0 | -75.37 |
| 1008 | 382034.0 | 3765480.0 | -2.88 |
| 1008 | 382054.0 | 3765480.0 | -22.46 |
| 1008 | 382074.0 | 3765480.0 | -41.81 |
| 1008 | 382094.0 | 3765480.0 | -60.73 |
| 1008 | 382114.0 | 3765480.0 | -78.63 |
| 1008 | 382134.0 | 3765480.0 | -93.34 |
| 1008 | 382034.0 | 3765500.0 | -4.95 |
| 1008 | 382054.0 | 3765500.0 | -24.95 |
| 1008 | 382074.0 | 3765500.0 | -44.94 |
| 1008 | 382094.0 | 3765500.0 | -64.93 |
| 1008 | 382114.0 | 3765500.0 | -84.91 |
| 1008 | 382134.0 | 3765500.0 | -104.84 |
| 1008 | 382034.0 | 3765520.0 | -3.57 |
| 1008 | 382054.0 | 3765520.0 | -23.28 |
| 1008 | 382074.0 | 3765520.0 | -42.84 |
| 1008 | 382094.0 | 3765520.0 | -62.10 |
| 1008 | 382114.0 | 3765520.0 | -80.61 |
| 1008 | 382134.0 | 3765520.0 | -96.54 |
| 1008 | 382054.0 | 3765540.0 | -17.65 |
| 1008 | 382074.0 | 3765540.0 | -35.89 |
| 1008 | 382094.0 | 3765540.0 | -53.12 |
| 1008 | 382114.0 | 3765540.0 | -68.31 |
| 1008 | 382134.0 | 3765540.0 | -79.12 |
| 1008 | 382054.0 | 3765560.0 | -8.66 |
| 1008 | 382074.0 | 3765560.0 | -25.16 |
| 1008 | 382094.0 | 3765560.0 | -40.04 |
| 1008 | 382114.0 | 3765560.0 | -52.23 |
| 1008 | 382134.0 | 3765560.0 | -60.06 |
| 1008 | 382074.0 | 3765580.0 | -11.76 |
| 1008 | 382094.0 | 3765580.0 | -24.53 |
| 1008 | 382114.0 | 3765580.0 | -34.48 |
| 1008 | 382134.0 | 3765580.0 | -40.54 |
| 1008 | 382094.0 | 3765600.0 | -7.59 |
| 1008 | 382114.0 | 3765600.0 | -15.91 |

**MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

| SOURCE ID | - - RECEPTOR LOCATION - - XR (METERS) | YR (METERS) | DISTANCE (METERS) |
|---|---|---|---|
| 1008 | 382134.0 | 3765600.0 | -20.83 |
| 1008 | 382134.0 | 3765620.0 | -1.02 |
| 1008 | 382071.0 | 3765565.0 | -19.71 |
| 1008 | 382071.0 | 3765565.0 | -19.71 |
| 1008 | 382071.0 | 3765565.0 | -19.71 |
| 1008 | 382071.0 | 3765565.0 | -19.71 |
| 1008 | 382071.0 | 3765565.0 | -19.71 |
| 1008 | 382071.0 | 3765565.0 | -19.71 |
| 1008 | 382071.0 | 3765565.0 | -19.71 |
| 1008 | 382051.0 | 3765530.0 | -18.05 |
| 1008 | 382051.0 | 3765530.0 | -18.05 |
| 1008 | 382051.0 | 3765530.0 | -18.05 |
| 1008 | 382051.0 | 3765530.0 | -18.05 |
| 1008 | 382051.0 | 3765530.0 | -18.05 |
| 1008 | 382051.0 | 3765530.0 | -18.05 |
| 1008 | 382051.0 | 3765530.0 | -18.05 |
| 3002 | 382134.0 | 3765560.0 | 0.76 |
| 3002 | 382114.0 | 3765580.0 | -6.41 |
| 3002 | 382134.0 | 3765580.0 | -18.36 |
| 3002 | 382114.0 | 3765600.0 | -15.73 |
| 3002 | 382134.0 | 3765600.0 | -34.48 |
| 3002 | 382114.0 | 3765620.0 | -13.90 |
| 3002 | 382134.0 | 3765620.0 | -30.49 |
| 3002 | 382114.0 | 3765640.0 | -2.24 |
| 3002 | 382134.0 | 3765640.0 | -12.73 |
| 3003 | 382094.0 | 3765480.0 | -6.81 |
| 3003 | 382114.0 | 3765480.0 | -11.50 |
| 3003 | 382134.0 | 3765480.0 | -5.84 |
| 3003 | 382074.0 | 3765500.0 | -5.36 |
| 3003 | 382094.0 | 3765500.0 | -22.68 |
| 3003 | 382114.0 | 3765500.0 | -31.48 |
| 3003 | 382134.0 | 3765500.0 | -21.11 |
| 3003 | 382074.0 | 3765520.0 | -8.31 |
| 3003 | 382094.0 | 3765520.0 | -28.10 |
| 3003 | 382114.0 | 3765520.0 | -43.39 |
| 3003 | 382134.0 | 3765520.0 | -26.14 |
| 3003 | 382074.0 | 3765540.0 | -1.72 |
| 3003 | 382094.0 | 3765540.0 | -16.90 |
| 3003 | 382114.0 | 3765540.0 | -23.49 |
| 3003 | 382134.0 | 3765540.0 | -15.62 |

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

| SOURCE ID | - - RECEPTOR LOCATION - - XR (METERS) | YR (METERS) | DISTANCE (METERS) |
|---|---|---|---|
| 3003 | 382094.0 | 3765560.0 | 0.41 |
| 3003 | 382114.0 | 3765560.0 | -3.50 |
| 3004 | 382054.0 | 3765460.0 | -6.71 |
| 3004 | 382074.0 | 3765460.0 | -14.27 |
| 3004 | 382094.0 | 3765460.0 | -10.84 |
| 3015 | 382074.0 | 3765460.0 | -15.53 |
| 3015 | 382094.0 | 3765460.0 | -25.79 |
| 3015 | 382114.0 | 3765460.0 | -19.76 |
| 3015 | 382134.0 | 3765460.0 | -3.95 |
| 3015 | 382074.0 | 3765480.0 | 0.13 |
| 3015 | 382094.0 | 3765480.0 | -5.90 |
| 3015 | 382114.0 | 3765480.0 | -2.55 |
| 3016 | 382134.0 | 3765480.0 | -2.01 |
| 3016 | 382094.0 | 3765500.0 | 0.64 |
| 3016 | 382114.0 | 3765500.0 | -14.77 |
| 3016 | 382134.0 | 3765500.0 | -22.01 |
| 3016 | 382094.0 | 3765520.0 | -5.81 |
| 3016 | 382114.0 | 3765520.0 | -25.61 |
| 3016 | 382134.0 | 3765520.0 | -42.01 |
| 3016 | 382094.0 | 3765540.0 | -2.93 |
| 3016 | 382114.0 | 3765540.0 | -20.40 |
| 3016 | 382134.0 | 3765540.0 | -30.01 |
| 3016 | 382114.0 | 3765560.0 | -4.83 |
| 3016 | 382134.0 | 3765560.0 | -10.01 |
| 3017 | 382134.0 | 3765580.0 | -0.40 |
| 3017 | 382134.0 | 3765600.0 | -9.13 |
| 3017 | 382134.0 | 3765620.0 | -8.06 |



*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\cela8.sfc Met Version: 14134
Profile file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\cela8.pfl
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2006 Year: 2006

First 24 hours of scalar data

| YR | MO | DY | JDY | HR | H0 | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O LEN | Z0 | BOWEN | ALBEDO | REF WS | WD | HT | REF TA | HT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06 | 01 | 01 | 1 | 01 | -2.3 | 0.065 | -9.000 | -9.000 | -999. | 39. | 10.5 | 0.56 | 1.00 | 1.00 | 0.90 | 347. | 9.1 | 286.4 | 5.5 |
| 06 | 01 | 01 | 1 | 02 | -5.6 | 0.093 | -9.000 | -9.000 | -999. | 68. | 13.0 | 0.56 | 1.00 | 1.00 | 1.30 | 81. | 9.1 | 286.4 | 5.5 |
| 06 | 01 | 01 | 1 | 03 | -2.3 | 0.065 | -9.000 | -9.000 | -999. | 39. | 10.5 | 0.56 | 1.00 | 1.00 | 0.90 | 66. | 9.1 | 286.4 | 5.5 |
| 06 | 01 | 01 | 1 | 04 | -5.6 | 0.093 | -9.000 | -9.000 | -999. | 68. | 13.0 | 0.56 | 1.00 | 1.00 | 1.30 | 23. | 9.1 | 285.9 | 5.5 |
| 06 | 01 | 01 | 1 | 05 | -5.6 | 0.093 | -9.000 | -9.000 | -999. | 68. | 13.0 | 0.56 | 1.00 | 1.00 | 1.30 | 61. | 9.1 | 285.4 | 5.5 |
| 06 | 01 | 01 | 1 | 06 | -6.5 | 0.093 | -9.000 | -9.000 | -999. | 68. | 11.2 | 0.56 | 1.00 | 1.00 | 1.30 | 83. | 9.1 | 285.4 | 5.5 |
| 06 | 01 | 01 | 1 | 07 | -11.6 | 0.210 | -9.000 | -9.000 | -999. | 232. | 71.6 | 0.56 | 1.00 | 1.00 | 1.80 | 64. | 9.1 | 285.4 | 5.5 |
| 06 | 01 | 01 | 1 | 08 | -6.0 | 0.093 | -9.000 | -9.000 | -999. | 77. | 12.0 | 0.56 | 1.00 | 0.55 | 1.30 | 46. | 9.1 | 285.4 | 5.5 |
| 06 | 01 | 01 | 1 | 09 | 26.6 | 0.340 | 0.706 | 0.005 | 474. | 476. | -132.1 | 0.56 | 1.00 | 0.32 | 2.20 | 87. | 9.1 | 286.4 | 5.5 |
| 06 | 01 | 01 | 1 | 10 | 21.0 | 0.284 | 0.736 | 0.005 | 681. | 364. | -97.2 | 0.56 | 1.00 | 0.24 | 1.80 | 76. | 9.1 | 286.4 | 5.5 |
| 06 | 01 | 01 | 1 | 11 | 35.8 | 0.230 | 0.921 | 0.005 | 780. | 266. | -30.3 | 0.56 | 1.00 | 0.21 | 1.30 | 66. | 9.1 | 287.5 | 5.5 |
| 06 | 01 | 01 | 1 | 12 | 14.9 | 0.331 | 0.694 | 0.008 | 804. | 458. | -218.6 | 0.56 | 1.00 | 0.20 | 2.20 | 79. | 9.1 | 287.5 | 5.5 |
| 06 | 01 | 01 | 1 | 13 | 26.4 | 0.460 | 0.854 | 0.012 | 844. | 749. | -330.2 | 0.56 | 1.00 | 0.20 | 3.10 | 76. | 9.1 | 287.5 | 5.5 |
| 06 | 01 | 01 | 1 | 14 | 39.0 | 0.466 | 0.995 | 0.015 | 902. | 763. | -231.5 | 0.56 | 1.00 | 0.21 | 3.10 | 80. | 9.1 | 288.1 | 5.5 |
| 06 | 01 | 01 | 1 | 15 | 11.4 | 0.328 | 0.664 | 0.015 | 917. | 466. | -277.7 | 0.56 | 1.00 | 0.25 | 2.20 | 85. | 9.1 | 287.5 | 5.5 |
| 06 | 01 | 01 | 1 | 16 | 0.1 | 0.445 | 0.137 | 0.015 | 917. | 712. | -8888.0 | 0.56 | 1.00 | 0.33 | 3.10 | 75. | 9.1 | 287.0 | 5.5 |
| 06 | 01 | 01 | 1 | 17 | -21.5 | 0.423 | -9.000 | -9.000 | -999. | 661. | 315.0 | 0.56 | 1.00 | 0.60 | 3.10 | 82. | 9.1 | 286.4 | 5.5 |

```
06 01 01   1 18  -33.6  0.332 -9.000 -9.000 -999.  464.    97.1  0.56   1.00   1.00    2.70  101.    9.1  286.4    5.5
06 01 01   1 19  -30.9  0.412 -9.000 -9.000 -999.  634.   201.9  0.56   1.00   1.00    3.10   97.    9.1  285.9    5.5
06 01 01   1 20  -34.9  0.630 -9.000 -9.000 -999. 1200.   640.4  0.56   1.00   1.00    4.50   92.    9.1  284.9    5.5
06 01 01   1 21  -47.1  0.624 -9.000 -9.000 -999. 1183.   460.9  0.56   1.00   1.00    4.50   88.    9.1  284.2    5.5
06 01 01   1 22  -62.8  0.616 -9.000 -9.000 -999. 1160.   332.6  0.56   1.00   1.00    4.50   91.    9.1  284.9    5.5
06 01 01   1 23  -61.4  0.816 -9.000 -9.000 -999. 1765.   791.1  0.56   1.00   1.00    5.80   82.    9.1  285.4    5.5
06 01 01   1 24  -45.3  0.820 -9.000 -9.000 -999. 1783.  1090.2  0.56   1.00   1.00    5.80   84.    9.1  285.9    5.5


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
06 01 01 01    5.5 0 -999.  -99.00   286.5   99.0  -99.00  -99.00
06 01 01 01    9.1 1  347.    0.90  -999.0   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                          ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                 ***      15:31:34
                                                                                   PAGE  19
**MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 1001     ***
                       INCLUDING SOURCE(S):     1001        ,

                        *** NETWORK ID: C1001    ;  NETWORK TYPE: GRIDCART ***

                            ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

  Y-COORD  |                              X-COORD (METERS)
  (METERS) |    381954.00   381974.00   381994.00   382014.00   382034.00   382054.00   382074.00   382094.00   382114.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3765640.00 |     20.94922    24.37321    28.51754    33.41654    38.99127    44.98181    50.49865     0.00000     0.00000
 3765620.00 |     23.30009    27.69499    33.26841    40.22304    48.63070     0.00000     0.00000     0.00000     0.00000
 3765600.00 |     25.68567    31.23396    38.63223    48.37861     0.00000     0.00000     0.00000     0.00000     0.00000
 3765580.00 |     27.89512    34.67858    44.16563     0.00000     0.00000     0.00000     0.00000     0.00000     0.00000
 3765560.00 |     29.70112    37.50358     0.00000     0.00000     0.00000     0.00000     0.00000     0.00000     0.00000
 3765540.00 |     30.78336    39.22107     0.00000     0.00000     0.00000     0.00000     0.00000     0.00000     0.00000
 3765520.00 |     31.07267    39.62407     0.00000     0.00000     0.00000     0.00000     0.00000     0.00000     0.00000
 3765500.00 |     30.48376    38.56919     0.00000     0.00000     0.00000     0.00000     0.00000     0.00000     0.00000
 3765480.00 |     29.14392    36.33625    46.64033     0.00000     0.00000     0.00000     0.00000     0.00000     0.00000
 3765460.00 |     27.22528    33.29450    41.56310     0.00000     0.00000     0.00000     0.00000     0.00000     0.00000
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                          ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                 ***      15:31:34
                                                                                   PAGE  20
**MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 1001     ***
                       INCLUDING SOURCE(S):     1001        ,

                        *** NETWORK ID: C1001    ;  NETWORK TYPE: GRIDCART ***
```

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 0.00000 |
| 3765620.00 | 0.00000 |
| 3765600.00 | 0.00000 |
| 3765580.00 | 0.00000 |
| 3765560.00 | 0.00000 |
| 3765540.00 | 0.00000 |
| 3765520.00 | 0.00000 |
| 3765500.00 | 0.00000 |
| 3765480.00 | 0.00000 |
| 3765460.00 | 0.00000 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1001 ***
INCLUDING SOURCE(S): 1001 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 0.00000 | 382071.00 | 3765565.00 | 0.00000 |
| 382071.00 | 3765565.00 | 0.00000 | 382071.00 | 3765565.00 | 0.00000 |
| 382071.00 | 3765565.00 | 0.00000 | 382071.00 | 3765565.00 | 0.00000 |
| 382071.00 | 3765565.00 | 0.00000 | 382051.00 | 3765530.00 | 0.00000 |
| 382051.00 | 3765530.00 | 0.00000 | 382051.00 | 3765530.00 | 0.00000 |
| 382051.00 | 3765530.00 | 0.00000 | 382051.00 | 3765530.00 | 0.00000 |
| 382051.00 | 3765530.00 | 0.00000 | 382051.00 | 3765530.00 | 0.00000 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1002 ***
INCLUDING SOURCE(S): 1002 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 8.25073 | 8.40366 | 8.50755 | 8.55787 | 8.55548 | 8.50104 | 8.39369 | 8.24130 | 8.04802 |
| 3765620.00 | 9.14644 | 9.33338 | 9.45778 | 9.51851 | 9.50971 | 9.43591 | 9.29895 | 9.10740 | 8.86936 |
| 3765600.00 | 10.20705 | 10.43740 | 10.59052 | 10.66060 | 10.64709 | 10.54658 | 10.37257 | 10.12608 | 9.82398 |
| 3765580.00 | 11.47524 | 11.76598 | 11.95812 | 12.04315 | 12.01702 | 11.87882 | 11.65074 | 11.33612 | 10.95109 |
| 3765560.00 | 13.00847 | 13.38211 | 13.62755 | 13.72857 | 13.69023 | 13.50616 | 13.19321 | 12.78023 | 12.28627 |
| 3765540.00 | 14.89371 | 15.38544 | 15.70732 | 15.83910 | 15.76275 | 15.50507 | 15.08970 | 14.53113 | 13.87550 |
| 3765520.00 | 17.24536 | 17.91075 | 18.34897 | 18.51239 | 18.40446 | 18.03386 | 17.43740 | 16.67215 | 15.79229 |
| 3765500.00 | 20.24772 | 21.18442 | 21.79538 | 22.01085 | 21.83010 | 21.27510 | 20.41287 | 19.33578 | 18.12874 |
| 3765480.00 | 24.14964 | 25.51843 | 26.41386 | 26.71284 | 26.39096 | 25.51810 | 24.23556 | 22.68621 | 21.00221 |
| 3765460.00 | 29.37446 | 31.48831 | 32.86383 | 33.26869 | 32.65908 | 31.24284 | 29.25190 | 26.94611 | 24.51958 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1002 ***
INCLUDING SOURCE(S): 1002 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 7.82074 |
| 3765620.00 | 8.58963 |
| 3765600.00 | 9.48133 |
| 3765580.00 | 10.51317 |
| 3765560.00 | 11.72376 |
| 3765540.00 | 13.15279 |
| 3765520.00 | 14.84820 |
| 3765500.00 | 16.87279 |
| 3765480.00 | 19.27597 |
| 3765460.00 | 22.15102 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1002 ***
INCLUDING SOURCE(S): 1002 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 12.83102 | 382071.00 | 3765565.00 | 12.83102 |
| 382071.00 | 3765565.00 | 12.83102 | 382071.00 | 3765565.00 | 12.83102 |
| 382071.00 | 3765565.00 | 12.83102 | 382071.00 | 3765565.00 | 12.83102 |
| 382071.00 | 3765565.00 | 12.83102 | 382051.00 | 3765530.00 | 16.74952 |
| 382051.00 | 3765530.00 | 16.74952 | 382051.00 | 3765530.00 | 16.74952 |
| 382051.00 | 3765530.00 | 16.74952 | 382051.00 | 3765530.00 | 16.74952 |
| 382051.00 | 3765530.00 | 16.74952 | 382051.00 | 3765530.00 | 16.74952 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1003 ***
INCLUDING SOURCE(S): 1003 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 \| | 3.66851 | 3.64945 | 3.62097 | 3.58343 | 3.53860 | 3.48722 | 3.42885 | 3.36558 | 3.29767 |
| 3765620.00 \| | 3.90806 | 3.88564 | 3.85188 | 3.80922 | 3.75705 | 3.69762 | 3.63120 | 3.55953 | 3.48362 |
| 3765600.00 \| | 4.17402 | 4.14685 | 4.10748 | 4.05727 | 3.99794 | 3.92899 | 3.85397 | 3.77172 | 3.68505 |
| 3765580.00 \| | 4.46978 | 4.43761 | 4.39153 | 4.33316 | 4.26364 | 4.18339 | 4.09744 | 4.00455 | 3.90618 |
| 3765560.00 \| | 4.79925 | 4.76096 | 4.70671 | 4.63753 | 4.55771 | 4.46601 | 4.36512 | 4.25883 | 4.14779 |
| 3765540.00 \| | 5.16974 | 5.12397 | 5.05982 | 4.97971 | 4.88322 | 4.77675 | 4.66253 | 4.53929 | 4.41128 |
| 3765520.00 \| | 5.58644 | 5.53138 | 5.45618 | 5.36039 | 5.24974 | 5.12557 | 4.99051 | 4.84837 | 4.70152 |
| 3765500.00 \| | 6.05993 | 5.99455 | 5.90452 | 5.79088 | 5.66033 | 5.51476 | 5.35737 | 5.19264 | 5.02341 |
| 3765480.00 \| | 6.59712 | 6.51877 | 6.41015 | 6.27726 | 6.12228 | 5.95062 | 5.76774 | 5.57737 | 5.38276 |
| 3765460.00 \| | 7.21497 | 7.12020 | 6.98982 | 6.82966 | 6.64607 | 6.44563 | 6.23155 | 6.00986 | 5.78162 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1003 ***
INCLUDING SOURCE(S): 1003 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD | X-COORD (METERS)

| (METERS) \| | 382134.00 |
|---|---|
| 3765640.00 \| | 3.22599 |
| 3765620.00 \| | 3.40310 |
| 3765600.00 \| | 3.59587 |
| 3765580.00 \| | 3.80371 |
| 3765560.00 \| | 4.03071 |
| 3765540.00 \| | 4.27927 |
| 3765520.00 \| | 4.55206 |
| 3765500.00 \| | 4.85336 |
| 3765480.00 \| | 5.18411 |
| 3765460.00 \| | 5.55326 |

♀*** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1003 ***
INCLUDING SOURCE(S): 1003 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 4.31122 | 382071.00 | 3765565.00 | 4.31122 |
| 382071.00 | 3765565.00 | 4.31122 | 382071.00 | 3765565.00 | 4.31122 |
| 382071.00 | 3765565.00 | 4.31122 | 382071.00 | 3765565.00 | 4.31122 |
| 382071.00 | 3765565.00 | 4.31122 | 382051.00 | 3765530.00 | 4.96359 |
| 382051.00 | 3765530.00 | 4.96359 | 382051.00 | 3765530.00 | 4.96359 |
| 382051.00 | 3765530.00 | 4.96359 | 382051.00 | 3765530.00 | 4.96359 |
| 382051.00 | 3765530.00 | 4.96359 | 382051.00 | 3765530.00 | 4.96359 |

♀*** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
PAGE 28
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1004 ***
INCLUDING SOURCE(S): 1004 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD \| | X-COORD (METERS) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| (METERS) \| | 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 2.04673 | 2.02786 | 2.00652 | 1.98289 | 1.95757 | 1.93077 | 1.90229 | 1.87278 | 1.84222 |
| 3765620.00 | 2.13765 | 2.11677 | 2.09303 | 2.06726 | 2.03925 | 2.00969 | 1.97860 | 1.94645 | 1.91348 |
| 3765600.00 | 2.23525 | 2.21190 | 2.18569 | 2.15706 | 2.12653 | 2.09387 | 2.06013 | 2.02481 | 1.98869 |
| 3765580.00 | 2.33999 | 2.31408 | 2.28509 | 2.25351 | 2.21964 | 2.18352 | 2.14658 | 2.10829 | 2.06893 |
| 3765560.00 | 2.45234 | 2.42353 | 2.39138 | 2.35618 | 2.31913 | 2.27972 | 2.23860 | 2.19673 | 2.15410 |
| 3765540.00 | 2.57359 | 2.54148 | 2.50577 | 2.46710 | 2.42525 | 2.38184 | 2.33734 | 2.29114 | 2.24425 |
| 3765520.00 | 2.70414 | 2.66826 | 2.62879 | 2.58556 | 2.53994 | 2.49207 | 2.44241 | 2.39173 | 2.34044 |
| 3765500.00 | 2.84558 | 2.80569 | 2.76165 | 2.71361 | 2.66304 | 2.61015 | 2.55545 | 2.49978 | 2.44358 |
| 3765480.00 | 2.99816 | 2.95368 | 2.90440 | 2.85155 | 2.79539 | 2.73683 | 2.67684 | 2.61596 | 2.55464 |
| 3765460.00 | 3.16413 | 3.11439 | 3.05947 | 3.00041 | 2.93827 | 2.87409 | 2.80813 | 2.74134 | 2.67351 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1004 ***
INCLUDING SOURCE(S): 1004 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 1.81082 |
| 3765620.00 | 1.87944 |
| 3765600.00 | 1.95225 |
| 3765580.00 | 2.02879 |
| 3765560.00 | 2.11012 |
| 3765540.00 | 2.19667 |
| 3765520.00 | 2.28888 |
| 3765500.00 | 2.38758 |
| 3765480.00 | 2.49258 |
| 3765460.00 | 2.60582 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1004 ***
INCLUDING SOURCE(S): 1004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 2.22128 | 382071.00 | 3765565.00 | 2.22128 |
| 382071.00 | 3765565.00 | 2.22128 | 382071.00 | 3765565.00 | 2.22128 |
| 382071.00 | 3765565.00 | 2.22128 | 382071.00 | 3765565.00 | 2.22128 |
| 382071.00 | 3765565.00 | 2.22128 | 382051.00 | 3765530.00 | 2.44274 |
| 382051.00 | 3765530.00 | 2.44274 | 382051.00 | 3765530.00 | 2.44274 |
| 382051.00 | 3765530.00 | 2.44274 | 382051.00 | 3765530.00 | 2.44274 |
| 382051.00 | 3765530.00 | 2.44274 | 382051.00 | 3765530.00 | 2.44274 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1005 ***
INCLUDING SOURCE(S): 1005 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 \| | 10.91670 | 12.28847 | 13.93693 | 15.93685 | 18.38278 | 21.40275 | 25.16888 | 29.89326 | 35.83373 |
| 3765620.00 \| | 10.46085 | 11.70113 | 13.16988 | 14.91620 | 17.00671 | 19.51650 | 22.53820 | 26.16904 | 30.47317 |
| 3765600.00 \| | 9.96535 | 11.07333 | 12.36303 | 13.86809 | 15.62734 | 17.68370 | 20.07620 | 22.83908 | 25.96159 |
| 3765580.00 \| | 9.44881 | 10.42750 | 11.54827 | 12.83118 | 14.29832 | 15.96856 | 17.85340 | 19.95145 | 22.22982 |
| 3765560.00 \| | 8.92671 | 9.78420 | 10.75053 | 11.83661 | 13.05187 | 14.40289 | 15.88670 | 17.48732 | 19.16515 |
| 3765540.00 \| | 8.40912 | 9.15603 | 9.98491 | 10.90004 | 11.90463 | 12.99676 | 14.16744 | 15.39729 | 16.64989 |
| 3765520.00 \| | 7.90628 | 8.55413 | 9.26223 | 10.03221 | 10.86155 | 11.74587 | 12.67421 | 13.62725 | 14.57491 |
| 3765500.00 \| | 7.42310 | 7.98314 | 8.58754 | 9.23515 | 9.92122 | 10.63958 | 11.37988 | 12.12544 | 12.85218 |
| 3765480.00 \| | 6.96511 | 7.44848 | 7.96403 | 8.50842 | 9.07745 | 9.66390 | 10.25780 | 10.84557 | 11.40906 |
| 3765460.00 \| | 6.53300 | 6.95004 | 7.38975 | 7.84873 | 8.32197 | 8.80265 | 9.28234 | 9.74925 | 10.19107 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1005 ***
INCLUDING SOURCE(S): 1005 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 \| | 43.15349 |

| | |
|---|---|
| 3765620.00 | 35.45219 |
| 3765600.00 | 29.36889 |
| 3765580.00 | 24.60631 |
| 3765560.00 | 20.84985 |
| 3765540.00 | 17.86973 |
| 3765520.00 | 15.47788 |
| 3765500.00 | 13.53077 |
| 3765480.00 | 11.92863 |
| 3765460.00 | 10.59095 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1005 ***
INCLUDING SOURCE(S): 1005 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 16.10896 | 382071.00 | 3765565.00 | 16.10896 |
| 382071.00 | 3765565.00 | 16.10896 | 382071.00 | 3765565.00 | 16.10896 |
| 382071.00 | 3765565.00 | 16.10896 | 382071.00 | 3765565.00 | 16.10896 |
| 382071.00 | 3765565.00 | 16.10896 | 382051.00 | 3765530.00 | 12.20101 |
| 382051.00 | 3765530.00 | 12.20101 | 382051.00 | 3765530.00 | 12.20101 |
| 382051.00 | 3765530.00 | 12.20101 | 382051.00 | 3765530.00 | 12.20101 |
| 382051.00 | 3765530.00 | 12.20101 | 382051.00 | 3765530.00 | 12.20101 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1006 ***
INCLUDING SOURCE(S): 1006 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 4.36773 | 4.60987 | 4.86588 | 5.13535 | 5.42010 | 5.71989 | 6.03047 | 6.35314 | 6.68351 |
| 3765620.00 | 4.17540 | 4.39390 | 4.62244 | 4.86310 | 5.11329 | 5.37430 | 5.64358 | 5.92092 | 6.20423 |
| 3765600.00 | 3.99074 | 4.18714 | 4.39185 | 4.60500 | 4.82695 | 5.05448 | 5.28999 | 5.52763 | 5.76807 |
| 3765580.00 | 3.81347 | 3.99057 | 4.17404 | 4.36386 | 4.55918 | 4.75768 | 4.96281 | 5.16966 | 5.37607 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3765560.00 | 3.64337 | 3.80296 | 3.96734 | 4.13555 | 4.30919 | 4.48474 | 4.66164 | 4.84095 | 5.02008 |
| 3765540.00 | 3.48160 | 3.62552 | 3.77295 | 3.92369 | 4.07524 | 4.22972 | 4.38658 | 4.54151 | 4.69512 |
| 3765520.00 | 3.32718 | 3.45695 | 3.58975 | 3.72368 | 3.85965 | 3.99616 | 4.13209 | 4.26726 | 4.40053 |
| 3765500.00 | 3.18087 | 3.29844 | 3.41780 | 3.53761 | 3.65862 | 3.77950 | 3.89925 | 4.01771 | 4.13391 |
| 3765480.00 | 3.04130 | 3.14783 | 3.25512 | 3.36332 | 3.47121 | 3.57847 | 3.68497 | 3.78997 | 3.89262 |
| 3765460.00 | 2.90941 | 3.00606 | 3.10306 | 3.20011 | 3.29698 | 3.39356 | 3.48864 | 3.58207 | 3.67172 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1006 ***
INCLUDING SOURCE(S): 1006 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 7.01774 |
| 3765620.00 | 6.48625 |
| 3765600.00 | 6.01087 |
| 3765580.00 | 5.57947 |
| 3765560.00 | 5.19250 |
| 3765540.00 | 4.84448 |
| 3765520.00 | 4.53064 |
| 3765500.00 | 4.24785 |
| 3765480.00 | 3.99018 |
| 3765460.00 | 3.75798 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1006 ***
INCLUDING SOURCE(S): 1006 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 4.70754 | 382071.00 | 3765565.00 | 4.70754 |
| 382071.00 | 3765565.00 | 4.70754 | 382071.00 | 3765565.00 | 4.70754 |
| 382071.00 | 3765565.00 | 4.70754 | 382071.00 | 3765565.00 | 4.70754 |
| 382071.00 | 3765565.00 | 4.70754 | 382051.00 | 3765530.00 | 4.08832 |

```
     382051.00   3765530.00      4.08832              382051.00   3765530.00      4.08832
     382051.00   3765530.00      4.08832              382051.00   3765530.00      4.08832
     382051.00   3765530.00      4.08832              382051.00   3765530.00      4.08832
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                          ***      11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                 ***      15:31:34
                                                                                   PAGE  37
 **MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 1007     ***
                       INCLUDING SOURCE(S):     1007       ,

                        *** NETWORK ID: C1001    ;  NETWORK TYPE: GRIDCART ***

                            ** CONC OF OTHER    IN MICROGRAMS/M**3                  **

  Y-COORD  |                              X-COORD (METERS)
  (METERS) |    381954.00   381974.00   381994.00   382014.00   382034.00   382054.00   382074.00   382094.00   382114.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3765640.00 |     2.52368    2.59529    2.66668    2.73738    2.80776    2.87750    2.94517    3.01127    3.07479
 3765620.00 |     2.42104    2.48617    2.55054    2.61475    2.67771    2.73982    2.80029    2.85920    2.91620
 3765600.00 |     2.32407    2.38311    2.44153    2.49928    2.55644    2.61188    2.66654    2.71874    2.76905
 3765580.00 |     2.23218    2.28603    2.33916    2.39154    2.44287    2.49243    2.54156    2.58880    2.63381
 3765560.00 |     2.14489    2.19404    2.24240    2.28964    2.33643    2.38156    2.42506    2.46751    2.50832
 3765540.00 |     2.06238    2.10733    2.15144    2.19471    2.23628    2.27710    2.31709    2.35498    2.39128
 3765520.00 |     1.98399    2.02512    2.06563    2.10482    2.14316    2.18023    2.21581    2.25004    2.28277
 3765500.00 |     1.90986    1.94776    1.98484    2.02064    2.05561    2.08935    2.12166    2.15270    2.18232
 3765480.00 |     1.83923    1.87417    1.90813    1.94127    1.97321    2.00398    2.03367    2.06218    2.08940
 3765460.00 |     1.77239    1.80467    1.83601    1.86638    1.89582    1.92439    1.95176    1.97802    2.00256
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                          ***      11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                 ***      15:31:34
                                                                                   PAGE  38
 **MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 1007     ***
                       INCLUDING SOURCE(S):     1007       ,

                        *** NETWORK ID: C1001    ;  NETWORK TYPE: GRIDCART ***

                            ** CONC OF OTHER    IN MICROGRAMS/M**3                  **

  Y-COORD  |                              X-COORD (METERS)
  (METERS) |    382134.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3765640.00 |     3.13514
 3765620.00 |     2.96970
 3765600.00 |     2.81771
 3765580.00 |     2.67623
 3765560.00 |     2.54582
```

| | |
|---|---|
| 3765540.00 | 2.42535 |
| 3765520.00 | 2.31384 |
| 3765500.00 | 2.21076 |
| 3765480.00 | 2.11456 |
| 3765460.00 | 2.02573 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1007 ***
INCLUDING SOURCE(S): 1007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 2.44699 | 382071.00 | 3765565.00 | 2.44699 |
| 382071.00 | 3765565.00 | 2.44699 | 382071.00 | 3765565.00 | 2.44699 |
| 382071.00 | 3765565.00 | 2.44699 | 382071.00 | 3765565.00 | 2.44699 |
| 382071.00 | 3765565.00 | 2.44699 | 382051.00 | 3765530.00 | 2.22192 |
| 382051.00 | 3765530.00 | 2.22192 | 382051.00 | 3765530.00 | 2.22192 |
| 382051.00 | 3765530.00 | 2.22192 | 382051.00 | 3765530.00 | 2.22192 |
| 382051.00 | 3765530.00 | 2.22192 | 382051.00 | 3765530.00 | 2.22192 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1008 ***
INCLUDING SOURCE(S): 1008 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 14.53536 | 16.44011 | 18.68841 | 21.32639 | 24.35222 | 27.75183 | 31.40504 | 35.00764 | 38.26997 |
| 3765620.00 | 15.77838 | 18.07987 | 20.88874 | 24.28674 | 28.37767 | 33.16805 | 38.63078 | 44.36318 | 49.85242 |
| 3765600.00 | 17.02219 | 19.77564 | 23.23871 | 27.60603 | 33.09876 | 39.88933 | 48.12409 | 0.00000 | 0.00000 |
| 3765580.00 | 18.21044 | 21.43567 | 25.62617 | 31.12208 | 38.39230 | 47.93964 | 0.00000 | 0.00000 | 0.00000 |
| 3765560.00 | 19.27159 | 22.95423 | 27.87270 | 34.58332 | 43.91911 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 3765540.00 | 20.10059 | 24.14907 | 29.68007 | 37.47246 | 48.79293 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 3765520.00 | 20.63480 | 24.92018 | 30.81686 | 39.26980 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 3765500.00 | 20.80644 | 25.14426 | 31.11739 | 39.69692 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

```
 3765480.00 |    20.61179    24.82075    30.57707    38.72441     0.00000     0.00000     0.00000     0.00000     0.00000
 3765460.00 |    20.05724    23.97905    29.24238    36.51644    46.93262     0.00000     0.00000     0.00000     0.00000
♀*** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                   ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                     ***      15:31:34
                                                                                    PAGE  41
 **MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 1008     ***
                       INCLUDING SOURCE(S):     1008       ,

                        *** NETWORK ID: C1001    ;  NETWORK TYPE: GRIDCART ***

                           ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

  Y-COORD  |                                X-COORD (METERS)
  (METERS) |    382134.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3765640.00 |    40.52771
 3765620.00 |     0.00000
 3765600.00 |     0.00000
 3765580.00 |     0.00000
 3765560.00 |     0.00000
 3765540.00 |     0.00000
 3765520.00 |     0.00000
 3765500.00 |     0.00000
 3765480.00 |     0.00000
 3765460.00 |     0.00000
♀*** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                   ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                     ***      15:31:34
                                                                                    PAGE  42
 **MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 1008     ***
                       INCLUDING SOURCE(S):     1008       ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                           ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

    X-COORD (M)  Y-COORD (M)      CONC                X-COORD (M)  Y-COORD (M)      CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     382071.00   3765565.00     0.00000              382071.00   3765565.00     0.00000
     382071.00   3765565.00     0.00000              382071.00   3765565.00     0.00000
     382071.00   3765565.00     0.00000              382071.00   3765565.00     0.00000
     382071.00   3765565.00     0.00000              382051.00   3765530.00     0.00000
     382051.00   3765530.00     0.00000              382051.00   3765530.00     0.00000
     382051.00   3765530.00     0.00000              382051.00   3765530.00     0.00000
     382051.00   3765530.00     0.00000              382051.00   3765530.00     0.00000
♀*** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                   ***      11/02/16
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1009 ***
INCLUDING SOURCE(S): 1009 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 10.07699 | 11.30320 | 12.77335 | 14.55426 | 16.73211 | 19.42681 | 22.80477 | 27.09186 | 32.58899 |
| 3765620.00 | 9.72627 | 10.85399 | 12.19035 | 13.78185 | 15.69510 | 18.00855 | 20.82502 | 24.27308 | 28.49253 |
| 3765600.00 | 9.33226 | 10.35688 | 11.55327 | 12.95592 | 14.60762 | 16.55995 | 18.86867 | 21.59742 | 24.79419 |
| 3765580.00 | 8.91032 | 9.83012 | 10.88906 | 12.10985 | 13.51985 | 15.14790 | 17.02084 | 19.16115 | 21.57557 |
| 3765560.00 | 8.47394 | 9.29226 | 10.22096 | 11.27431 | 12.46684 | 13.81414 | 15.32526 | 17.00226 | 18.82888 |
| 3765540.00 | 8.03218 | 8.75519 | 9.56430 | 10.46710 | 11.47131 | 12.58185 | 13.79906 | 15.11499 | 16.50750 |
| 3765520.00 | 7.59529 | 8.23066 | 8.93163 | 9.70284 | 10.54536 | 11.45971 | 12.44138 | 13.47859 | 14.54921 |
| 3765500.00 | 7.16857 | 7.72434 | 8.33028 | 8.98761 | 9.69440 | 10.44792 | 11.24182 | 12.06405 | 12.89529 |
| 3765480.00 | 6.75842 | 7.24328 | 7.76600 | 8.32502 | 8.91828 | 9.54094 | 10.18560 | 10.84129 | 11.49195 |
| 3765460.00 | 6.36643 | 6.78881 | 7.23910 | 7.71527 | 8.21381 | 8.72957 | 9.25569 | 9.78185 | 10.29614 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1009 ***
INCLUDING SOURCE(S): 1009 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 39.68198 |
| 3765620.00 | 33.61073 |
| 3765600.00 | 28.46970 |
| 3765580.00 | 24.23007 |
| 3765560.00 | 20.76410 |
| 3765540.00 | 17.93573 |
| 3765520.00 | 15.61891 |
| 3765500.00 | 13.70774 |
| 3765480.00 | 12.11798 |

3765460.00 | 10.78178



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1009 ***
INCLUDING SOURCE(S): 1009 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 15.48243 | 382071.00 | 3765565.00 | 15.48243 |
| 382071.00 | 3765565.00 | 15.48243 | 382071.00 | 3765565.00 | 15.48243 |
| 382071.00 | 3765565.00 | 15.48243 | 382071.00 | 3765565.00 | 15.48243 |
| 382071.00 | 3765565.00 | 15.48243 | 382051.00 | 3765530.00 | 11.85013 |
| 382051.00 | 3765530.00 | 11.85013 | 382051.00 | 3765530.00 | 11.85013 |
| 382051.00 | 3765530.00 | 11.85013 | 382051.00 | 3765530.00 | 11.85013 |
| 382051.00 | 3765530.00 | 11.85013 | 382051.00 | 3765530.00 | 11.85013 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1010 ***
INCLUDING SOURCE(S): 1010 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 4.28104 | 4.52164 | 4.77705 | 5.04718 | 5.33411 | 5.63804 | 5.95526 | 6.28755 | 6.63113 |
| 3765620.00 | 4.10076 | 4.31887 | 4.54800 | 4.79042 | 5.04387 | 5.30994 | 5.58647 | 5.87361 | 6.16970 |
| 3765600.00 | 3.92673 | 4.12364 | 4.32980 | 4.54552 | 4.77139 | 5.00447 | 5.24741 | 5.49470 | 5.74726 |
| 3765580.00 | 3.75882 | 3.93709 | 4.12261 | 4.31552 | 4.51517 | 4.71946 | 4.93195 | 5.14802 | 5.36570 |
| 3765560.00 | 3.59694 | 3.75818 | 3.92502 | 4.09666 | 4.27480 | 4.45611 | 4.64017 | 4.82817 | 5.01765 |
| 3765540.00 | 3.44234 | 3.58824 | 3.73839 | 3.89272 | 4.04884 | 4.20894 | 4.37259 | 4.53561 | 4.69867 |
| 3765520.00 | 3.29417 | 3.42614 | 3.56181 | 3.69938 | 3.83983 | 3.98174 | 4.12408 | 4.26670 | 4.40855 |
| 3765500.00 | 3.15329 | 3.27318 | 3.39547 | 3.51889 | 3.64424 | 3.77024 | 3.89596 | 4.02126 | 4.14521 |
| 3765480.00 | 3.01844 | 3.12735 | 3.23756 | 3.34927 | 3.46130 | 3.57338 | 3.68541 | 3.79666 | 3.90631 |
| 3765460.00 | 2.89062 | 2.98966 | 3.08952 | 3.18995 | 3.29075 | 3.39182 | 3.49200 | 3.59113 | 3.68709 |

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1010 ***
INCLUDING SOURCE(S): 1010 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 6.98276 |
| 3765620.00 | 6.46793 |
| 3765600.00 | 6.00489 |
| 3765580.00 | 5.58257 |
| 3765560.00 | 5.20219 |
| 3765540.00 | 4.85889 |
| 3765520.00 | 4.54835 |
| 3765500.00 | 4.26781 |
| 3765480.00 | 4.01159 |
| 3765460.00 | 3.78025 |





**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1010 ***
INCLUDING SOURCE(S): 1010 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 4.68272 | 382071.00 | 3765565.00 | 4.68272 |
| 382071.00 | 3765565.00 | 4.68272 | 382071.00 | 3765565.00 | 4.68272 |
| 382071.00 | 3765565.00 | 4.68272 | 382071.00 | 3765565.00 | 4.68272 |
| 382071.00 | 3765565.00 | 4.68272 | 382051.00 | 3765530.00 | 4.07000 |
| 382051.00 | 3765530.00 | 4.07000 | 382051.00 | 3765530.00 | 4.07000 |
| 382051.00 | 3765530.00 | 4.07000 | 382051.00 | 3765530.00 | 4.07000 |
| 382051.00 | 3765530.00 | 4.07000 | 382051.00 | 3765530.00 | 4.07000 |





**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1011 ***
INCLUDING SOURCE(S): 1011 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 2.49992 | 2.57382 | 2.64793 | 2.72179 | 2.79578 | 2.86957 | 2.94180 | 3.01293 | 3.08195 |
| 3765620.00 | 2.40090 | 2.46828 | 2.53529 | 2.60250 | 2.66887 | 2.73479 | 2.79946 | 2.86297 | 2.92495 |
| 3765600.00 | 2.30706 | 2.36831 | 2.42927 | 2.48988 | 2.55022 | 2.60921 | 2.66774 | 2.72415 | 2.77900 |
| 3765580.00 | 2.21791 | 2.27389 | 2.32944 | 2.38452 | 2.43885 | 2.49171 | 2.54439 | 2.59547 | 2.64460 |
| 3765560.00 | 2.13302 | 2.18421 | 2.23487 | 2.28467 | 2.33424 | 2.38242 | 2.42921 | 2.47517 | 2.51970 |
| 3765540.00 | 2.05260 | 2.09949 | 2.14578 | 2.19143 | 2.23562 | 2.27925 | 2.32226 | 2.36336 | 2.40305 |
| 3765520.00 | 1.97603 | 2.01901 | 2.06155 | 2.10298 | 2.14375 | 2.18342 | 2.22178 | 2.25894 | 2.29476 |
| 3765500.00 | 1.90347 | 1.94311 | 1.98211 | 2.02001 | 2.05722 | 2.09336 | 2.12823 | 2.16195 | 2.19440 |
| 3765480.00 | 1.83422 | 1.87080 | 1.90656 | 1.94164 | 1.97567 | 2.00865 | 2.04069 | 2.07166 | 2.10144 |
| 3765460.00 | 1.76857 | 1.80239 | 1.83541 | 1.86759 | 1.89896 | 1.92956 | 1.95908 | 1.98759 | 2.01448 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1011 ***
INCLUDING SOURCE(S): 1011 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 3.14828 |
| 3765620.00 | 2.98383 |
| 3765600.00 | 2.83248 |
| 3765580.00 | 2.69140 |
| 3765560.00 | 2.56116 |
| 3765540.00 | 2.44070 |
| 3765520.00 | 2.32907 |
| 3765500.00 | 2.22576 |
| 3765480.00 | 2.12927 |
| 3765460.00 | 2.04008 |

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1011 ***
INCLUDING SOURCE(S): 1011 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 2.45031 | 382071.00 | 3765565.00 | 2.45031 |
| 382071.00 | 3765565.00 | 2.45031 | 382071.00 | 3765565.00 | 2.45031 |
| 382071.00 | 3765565.00 | 2.45031 | 382071.00 | 3765565.00 | 2.45031 |
| 382071.00 | 3765565.00 | 2.45031 | 382051.00 | 3765530.00 | 2.22421 |
| 382051.00 | 3765530.00 | 2.22421 | 382051.00 | 3765530.00 | 2.22421 |
| 382051.00 | 3765530.00 | 2.22421 | 382051.00 | 3765530.00 | 2.22421 |
| 382051.00 | 3765530.00 | 2.22421 | 382051.00 | 3765530.00 | 2.22421 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1012 ***
INCLUDING SOURCE(S): 1012 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 \| | 7.11591 | 7.30116 | 7.45563 | 7.57387 | 7.65437 | 7.69463 | 7.69007 | 7.64421 | 7.55718 |
| 3765620.00 \| | 7.80533 | 8.02905 | 8.21432 | 8.35842 | 8.45276 | 8.49717 | 8.48826 | 8.42878 | 8.32146 |
| 3765600.00 \| | 8.60554 | 8.87740 | 9.10409 | 9.27801 | 9.39422 | 9.44349 | 9.43118 | 9.35086 | 9.21163 |
| 3765580.00 \| | 9.54014 | 9.87661 | 10.15810 | 10.37391 | 10.51410 | 10.56899 | 10.54867 | 10.44609 | 10.26691 |
| 3765560.00 \| | 10.63918 | 11.06115 | 11.41566 | 11.68436 | 11.86254 | 11.93174 | 11.89191 | 11.75460 | 11.52461 |
| 3765540.00 \| | 11.94744 | 12.48549 | 12.94046 | 13.28992 | 13.50482 | 13.58832 | 13.53883 | 13.34675 | 13.03559 |
| 3765520.00 \| | 13.51562 | 14.21372 | 14.81303 | 15.26806 | 15.55975 | 15.66386 | 15.57466 | 15.30760 | 14.88480 |
| 3765500.00 \| | 15.42207 | 16.35165 | 17.15722 | 17.77379 | 18.16710 | 18.29963 | 18.16215 | 17.77959 | 17.18915 |
| 3765480.00 \| | 17.75596 | 19.02150 | 20.13574 | 21.01100 | 21.56022 | 21.73011 | 21.51886 | 20.95951 | 20.11672 |
| 3765460.00 \| | 20.66237 | 22.43319 | 24.03660 | 25.31299 | 26.12663 | 26.36532 | 26.01430 | 25.14945 | 23.87136 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1012 ***

INCLUDING SOURCE(S): 1012 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 7.43219 |
| 3765620.00 | 8.16636 |
| 3765600.00 | 9.02244 |
| 3765580.00 | 10.02009 |
| 3765560.00 | 11.20290 |
| 3765540.00 | 12.61985 |
| 3765520.00 | 14.33606 |
| 3765500.00 | 16.44569 |
| 3765480.00 | 19.05141 |
| 3765460.00 | 22.34173 |



*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1012 ***
INCLUDING SOURCE(S): 1012 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 11.54483 | 382071.00 | 3765565.00 | 11.54483 |
| 382071.00 | 3765565.00 | 11.54483 | 382071.00 | 3765565.00 | 11.54483 |
| 382071.00 | 3765565.00 | 11.54483 | 382071.00 | 3765565.00 | 11.54483 |
| 382071.00 | 3765565.00 | 11.54483 | 382051.00 | 3765530.00 | 14.56000 |
| 382051.00 | 3765530.00 | 14.56000 | 382051.00 | 3765530.00 | 14.56000 |
| 382051.00 | 3765530.00 | 14.56000 | 382051.00 | 3765530.00 | 14.56000 |
| 382051.00 | 3765530.00 | 14.56000 | 382051.00 | 3765530.00 | 14.56000 |



*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1013 ***
INCLUDING SOURCE(S): 1013 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 3.45826 | 3.45727 | 3.44767 | 3.42947 | 3.40399 | 3.37163 | 3.33171 | 3.28598 | 3.23453 |
| 3765620.00 | 3.67749 | 3.67577 | 3.66367 | 3.64302 | 3.61289 | 3.57501 | 3.52934 | 3.47729 | 3.41964 |
| 3765600.00 | 3.92028 | 3.91703 | 3.90255 | 3.87763 | 3.84337 | 3.79893 | 3.74729 | 3.68707 | 3.62074 |
| 3765580.00 | 4.18957 | 4.18512 | 4.16780 | 4.13852 | 4.09780 | 4.04551 | 3.98601 | 3.91785 | 3.84217 |
| 3765560.00 | 4.48874 | 4.48272 | 4.46187 | 4.42639 | 4.37964 | 4.31986 | 4.24911 | 4.17067 | 4.08496 |
| 3765540.00 | 4.82417 | 4.81620 | 4.79106 | 4.75007 | 4.69202 | 4.62218 | 4.54221 | 4.45048 | 4.35086 |
| 3765520.00 | 5.20027 | 5.18978 | 5.16032 | 5.11036 | 5.04421 | 4.96233 | 4.86654 | 4.76010 | 4.64511 |
| 3765500.00 | 5.62623 | 5.61367 | 5.57776 | 5.51804 | 5.43951 | 5.34295 | 5.23068 | 5.10657 | 4.97317 |
| 3765480.00 | 6.10784 | 6.09254 | 6.04840 | 5.97916 | 5.88533 | 5.77077 | 5.63991 | 5.49585 | 5.34165 |
| 3765460.00 | 6.65968 | 6.64086 | 6.58782 | 6.50363 | 6.39232 | 6.25870 | 6.10489 | 5.93628 | 5.75374 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1013 ***
INCLUDING SOURCE(S): 1013 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 3.17806 |
| 3765620.00 | 3.35589 |
| 3765600.00 | 3.55006 |
| 3765580.00 | 3.76018 |
| 3765560.00 | 3.99059 |
| 3765540.00 | 4.24400 |
| 3765520.00 | 4.52357 |
| 3765500.00 | 4.83416 |
| 3765480.00 | 5.17756 |
| 3765460.00 | 5.56388 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1013 ***
INCLUDING SOURCE(S): 1013 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 4.19206 | 382071.00 | 3765565.00 | 4.19206 |
| 382071.00 | 3765565.00 | 4.19206 | 382071.00 | 3765565.00 | 4.19206 |
| 382071.00 | 3765565.00 | 4.19206 | 382071.00 | 3765565.00 | 4.19206 |
| 382071.00 | 3765565.00 | 4.19206 | 382051.00 | 3765530.00 | 4.79898 |
| 382051.00 | 3765530.00 | 4.79898 | 382051.00 | 3765530.00 | 4.79898 |
| 382051.00 | 3765530.00 | 4.79898 | 382051.00 | 3765530.00 | 4.79898 |
| 382051.00 | 3765530.00 | 4.79898 | 382051.00 | 3765530.00 | 4.79898 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1014 ***
INCLUDING SOURCE(S): 1014 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 \| | 1.96377 | 1.95286 | 1.93942 | 1.92355 | 1.90574 | 1.88617 | 1.86457 | 1.84153 | 1.81703 |
| 3765620.00 \| | 2.05018 | 2.03804 | 2.02296 | 2.00564 | 1.98581 | 1.96407 | 1.94039 | 1.91520 | 1.88871 |
| 3765600.00 \| | 2.14296 | 2.12924 | 2.11250 | 2.09311 | 2.07147 | 2.04730 | 2.02156 | 1.99372 | 1.96452 |
| 3765580.00 \| | 2.24255 | 2.22724 | 2.20866 | 2.18718 | 2.16301 | 2.13610 | 2.10780 | 2.07754 | 2.04560 |
| 3765560.00 \| | 2.34942 | 2.33229 | 2.31159 | 2.28747 | 2.26098 | 2.23157 | 2.19980 | 2.16656 | 2.13186 |
| 3765540.00 \| | 2.46478 | 2.44559 | 2.42250 | 2.39598 | 2.36569 | 2.33315 | 2.29874 | 2.26184 | 2.22343 |
| 3765520.00 \| | 2.58906 | 2.56750 | 2.54195 | 2.51207 | 2.47908 | 2.44304 | 2.40431 | 2.36364 | 2.32141 |
| 3765500.00 \| | 2.72378 | 2.69980 | 2.67115 | 2.63780 | 2.60107 | 2.56106 | 2.51820 | 2.47329 | 2.42679 |
| 3765480.00 \| | 2.86923 | 2.84244 | 2.81020 | 2.77355 | 2.73255 | 2.68804 | 2.64088 | 2.59159 | 2.54066 |
| 3765460.00 \| | 3.02758 | 2.99757 | 2.96157 | 2.92039 | 2.87490 | 2.82604 | 2.77400 | 2.71971 | 2.66299 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1014 ***
INCLUDING SOURCE(S): 1014 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 1.79125 |
| 3765620.00 | 1.86064 |
| 3765600.00 | 1.93444 |
| 3765580.00 | 2.01222 |
| 3765560.00 | 2.09508 |
| 3765540.00 | 2.18350 |
| 3765520.00 | 2.27799 |
| 3765500.00 | 2.37945 |
| 3765480.00 | 2.48778 |
| 3765460.00 | 2.60508 |



*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1014 ***
INCLUDING SOURCE(S): 1014 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 2.18112 | 382071.00 | 3765565.00 | 2.18112 |
| 382071.00 | 3765565.00 | 2.18112 | 382071.00 | 3765565.00 | 2.18112 |
| 382071.00 | 3765565.00 | 2.18112 | 382071.00 | 3765565.00 | 2.18112 |
| 382071.00 | 3765565.00 | 2.18112 | 382051.00 | 3765530.00 | 2.39220 |
| 382051.00 | 3765530.00 | 2.39220 | 382051.00 | 3765530.00 | 2.39220 |
| 382051.00 | 3765530.00 | 2.39220 | 382051.00 | 3765530.00 | 2.39220 |
| 382051.00 | 3765530.00 | 2.39220 | 382051.00 | 3765530.00 | 2.39220 |



*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3001 ***
INCLUDING SOURCE(S): 3001 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD | X-COORD (METERS)

| (METERS) | 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 14.53173 | 16.82938 | 19.74734 | 23.52641 | 28.52294 | 35.32078 | 44.89956 | 58.85678 | 79.75235 |
| 3765620.00 | 14.02909 | 16.13938 | 18.77768 | 22.11407 | 26.40759 | 32.03175 | 39.54640 | 49.66493 | 63.23893 |
| 3765600.00 | 13.41111 | 15.30824 | 17.63094 | 20.49846 | 24.06786 | 28.55776 | 34.22357 | 41.32483 | 49.97297 |
| 3765580.00 | 12.71671 | 14.38901 | 16.39307 | 18.80364 | 21.70960 | 25.21561 | 29.41345 | 34.34664 | 39.90198 |
| 3765560.00 | 11.98113 | 13.43400 | 15.13714 | 17.13391 | 19.46489 | 22.16918 | 25.26831 | 28.70898 | 32.35506 |
| 3765540.00 | 11.23014 | 12.47879 | 13.91113 | 15.54805 | 17.40622 | 19.48761 | 21.77791 | 24.21321 | 26.66464 |
| 3765520.00 | 10.48866 | 11.55344 | 12.74923 | 14.08512 | 15.56096 | 17.16625 | 18.87254 | 20.62239 | 22.31877 |
| 3765500.00 | 9.77080 | 10.67362 | 11.66914 | 12.75726 | 13.93081 | 15.17470 | 16.45992 | 17.73905 | 18.94318 |
| 3765480.00 | 9.08947 | 9.85265 | 10.68003 | 11.56621 | 12.50234 | 13.47246 | 14.45063 | 15.40015 | 16.27324 |
| 3765460.00 | 8.44872 | 9.09310 | 9.78062 | 10.50477 | 11.25504 | 12.01605 | 12.76723 | 13.48004 | 14.12429 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3001 ***
INCLUDING SOURCE(S): 3001 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 111.24548 |
| 3765620.00 | 80.71755 |
| 3765600.00 | 59.83191 |
| 3765580.00 | 45.66283 |
| 3765560.00 | 35.88351 |
| 3765540.00 | 28.92711 |
| 3765520.00 | 23.83228 |
| 3765500.00 | 19.98954 |
| 3765480.00 | 17.01837 |
| 3765460.00 | 14.66029 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3001 ***
INCLUDING SOURCE(S): 3001 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 25.71111 | 382071.00 | 3765565.00 | 25.71111 |
| 382071.00 | 3765565.00 | 25.71111 | 382071.00 | 3765565.00 | 25.71111 |
| 382071.00 | 3765565.00 | 25.71111 | 382071.00 | 3765565.00 | 25.71111 |
| 382071.00 | 3765565.00 | 25.71111 | 382051.00 | 3765530.00 | 17.99920 |
| 382051.00 | 3765530.00 | 17.99920 | 382051.00 | 3765530.00 | 17.99920 |
| 382051.00 | 3765530.00 | 17.99920 | 382051.00 | 3765530.00 | 17.99920 |
| 382051.00 | 3765530.00 | 17.99920 | 382051.00 | 3765530.00 | 17.99920 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3002 ***
INCLUDING SOURCE(S): 3002 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 \| | 20.99405 | 25.30691 | 31.20343 | 39.58328 | 52.00611 | 71.51157 | 104.62433 | 165.06798 | 0.00000 |
| 3765620.00 \| | 21.49795 | 26.05205 | 32.37254 | 41.48555 | 55.45600 | 78.51051 | 121.04616 | 212.65746 | 0.00000 |
| 3765600.00 \| | 21.59706 | 26.19944 | 32.58027 | 41.81556 | 55.96929 | 79.59453 | 123.53775 | 220.97617 | 0.00000 |
| 3765580.00 \| | 21.28697 | 25.71871 | 31.79364 | 40.44249 | 53.41348 | 74.30962 | 110.56850 | 180.39229 | 0.00000 |
| 3765560.00 \| | 20.60935 | 24.69613 | 30.17750 | 37.75443 | 48.59644 | 64.87330 | 90.22621 | 130.00896 | 188.48260 |
| 3765540.00 \| | 19.62762 | 23.25382 | 27.97839 | 34.24188 | 42.75620 | 54.52385 | 70.71479 | 91.96889 | 116.20405 |
| 3765520.00 \| | 18.44588 | 21.56493 | 25.49215 | 30.48544 | 36.85969 | 44.99097 | 55.12035 | 66.67632 | 77.91372 |
| 3765500.00 \| | 17.14981 | 19.76599 | 22.95344 | 26.83575 | 31.51549 | 37.07140 | 43.41902 | 50.02543 | 55.81439 |
| 3765480.00 \| | 15.82708 | 17.98623 | 20.53290 | 23.50669 | 26.92594 | 30.74448 | 34.80083 | 38.74016 | 41.98697 |
| 3765460.00 \| | 14.52826 | 16.29127 | 18.30623 | 20.57762 | 23.07915 | 25.73472 | 28.40199 | 30.84294 | 32.77428 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3002 ***
INCLUDING SOURCE(S): 3002 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 382134.00 |
|---|---|

```
 3765640.00 |     0.00000
 3765620.00 |     0.00000
 3765600.00 |     0.00000
 3765580.00 |     0.00000
 3765560.00 |     0.00000
 3765540.00 |   134.65375
 3765520.00 |    85.37409
 3765500.00 |    59.37956
 3765480.00 |    43.92330
 3765460.00 |    33.86081
♀*** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                          ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                 ***      15:31:34
                                                                                   PAGE  66
**MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 3002     ***
                       INCLUDING SOURCE(S):     3002       ,

                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                          ** CONC OF OTHER    IN MICROGRAMS/M**3                  **

    X-COORD (M)  Y-COORD (M)      CONC                X-COORD (M)  Y-COORD (M)      CONC
-----------------------------------------------------------------------------------------
     382071.00   3765565.00     90.33960              382071.00   3765565.00     90.33960
     382071.00   3765565.00     90.33960              382071.00   3765565.00     90.33960
     382071.00   3765565.00     90.33960              382071.00   3765565.00     90.33960
     382071.00   3765565.00     90.33960              382051.00   3765530.00     47.93410
     382051.00   3765530.00     47.93410              382051.00   3765530.00     47.93410
     382051.00   3765530.00     47.93410              382051.00   3765530.00     47.93410
     382051.00   3765530.00     47.93410              382051.00   3765530.00     47.93410
♀*** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                          ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                 ***      15:31:34
                                                                                   PAGE  67
**MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 3003     ***
                       INCLUDING SOURCE(S):     3003       ,

                        *** NETWORK ID: C1001    ;  NETWORK TYPE: GRIDCART ***

                          ** CONC OF OTHER    IN MICROGRAMS/M**3                  **

  Y-COORD  |                              X-COORD (METERS)
  (METERS) |   381954.00   381974.00   381994.00   382014.00   382034.00   382054.00   382074.00   382094.00   382114.00
-----------------------------------------------------------------------------------------------------------------------

 3765640.00 |    19.47354    22.39752    25.86703    29.91486    34.42461    39.11062    43.46695    46.72037    48.19872
```

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3765620.00 | 21.60432 | 25.32097 | 29.94543 | 35.58924 | 42.33542 | 49.84402 | 57.26883 | 63.04887 | 65.64687 |
| 3765600.00 | 23.78582 | 28.45808 | 34.53858 | 42.46435 | 52.63175 | 65.17147 | 78.80102 | 90.41305 | 95.64479 |
| 3765580.00 | 25.88619 | 31.59392 | 39.39503 | 50.27075 | 65.65105 | 87.18980 | 114.45716 | 141.60619 | 154.39521 |
| 3765560.00 | 27.72284 | 34.44227 | 44.04828 | 58.39839 | 80.69652 | 117.11268 | 175.58481 | 0.00000 | 0.00000 |
| 3765540.00 | 29.04245 | 36.54919 | 47.64240 | 65.03620 | 94.83254 | 151.29963 | 0.00000 | 0.00000 | 0.00000 |
| 3765520.00 | 29.67392 | 37.55779 | 49.34665 | 68.35831 | 102.06998 | 171.83140 | 0.00000 | 0.00000 | 0.00000 |
| 3765500.00 | 29.48527 | 37.20042 | 48.65514 | 66.87872 | 98.53751 | 161.45962 | 0.00000 | 0.00000 | 0.00000 |
| 3765480.00 | 28.54038 | 35.61732 | 45.83497 | 61.30908 | 86.28817 | 129.52129 | 207.65748 | 0.00000 | 0.00000 |
| 3765460.00 | 26.95879 | 33.08340 | 41.54406 | 53.55157 | 71.02311 | 96.56176 | 131.83682 | 170.04625 | 187.95282 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3003 ***
INCLUDING SOURCE(S): 3003 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 47.61386 |
| 3765620.00 | 64.28904 |
| 3765600.00 | 92.09133 |
| 3765580.00 | 142.90349 |
| 3765560.00 | 248.31619 |
| 3765540.00 | 0.00000 |
| 3765520.00 | 0.00000 |
| 3765500.00 | 0.00000 |
| 3765480.00 | 0.00000 |
| 3765460.00 | 168.96577 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3003 ***
INCLUDING SOURCE(S): 3003 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 148.84894 | 382071.00 | 3765565.00 | 148.84894 |

| | | | | | |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 148.84894 | 382071.00 | 3765565.00 | 148.84894 |
| 382071.00 | 3765565.00 | 148.84894 | 382071.00 | 3765565.00 | 148.84894 |
| 382071.00 | 3765565.00 | 148.84894 | 382051.00 | 3765530.00 | 151.49861 |
| 382051.00 | 3765530.00 | 151.49861 | 382051.00 | 3765530.00 | 151.49861 |
| 382051.00 | 3765530.00 | 151.49861 | 382051.00 | 3765530.00 | 151.49861 |
| 382051.00 | 3765530.00 | 151.49861 | 382051.00 | 3765530.00 | 151.49861 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3004 ***
INCLUDING SOURCE(S): 3004 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 13.96270 | 15.00512 | 16.01563 | 16.93931 | 17.72331 | 18.30975 | 18.63823 | 18.69297 | 18.46703 |
| 3765620.00 | 15.79691 | 17.16136 | 18.50671 | 19.76682 | 20.83855 | 21.63883 | 22.08230 | 22.13513 | 21.80015 |
| 3765600.00 | 17.97860 | 19.78936 | 21.62428 | 23.37550 | 24.90720 | 26.04173 | 26.67840 | 26.70771 | 26.16512 |
| 3765580.00 | 20.56680 | 23.01584 | 25.57839 | 28.10338 | 30.35550 | 32.03793 | 32.97664 | 32.98968 | 32.09946 |
| 3765560.00 | 23.62489 | 26.97569 | 30.63429 | 34.37915 | 37.87935 | 40.57752 | 41.99586 | 41.92884 | 40.41134 |
| 3765540.00 | 27.19034 | 31.82772 | 37.16774 | 42.99253 | 48.63500 | 53.22501 | 55.74339 | 55.41494 | 52.50902 |
| 3765520.00 | 31.23603 | 37.65139 | 45.58319 | 54.90215 | 64.85369 | 73.48240 | 78.13225 | 77.14479 | 71.08597 |
| 3765500.00 | 35.60393 | 44.39286 | 56.20100 | 71.61938 | 90.27920 | 108.59200 | 119.10658 | 115.85960 | 101.32478 |
| 3765480.00 | 39.93453 | 51.56510 | 68.67449 | 94.30392 | 131.40184 | 176.55352 | 207.13055 | 194.44334 | 153.30163 |
| 3765460.00 | 43.61849 | 58.11209 | 81.43245 | 121.60488 | 195.69383 | 0.00000 | 0.00000 | 0.00000 | 243.38434 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3004 ***
INCLUDING SOURCE(S): 3004 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 17.98588 |
| 3765620.00 | 21.10294 |

```
 3765600.00 |     25.14753
 3765580.00 |     30.47026
 3765560.00 |     37.70487
 3765540.00 |     47.81696
 3765520.00 |     62.27826
 3765500.00 |     83.29566
 3765480.00 |    112.98043
 3765460.00 |    151.75516
♀*** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                          ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                 ***      15:31:34
                                                                                   PAGE  72
 **MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 3004     ***
                       INCLUDING SOURCE(S):     3004       ,

                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                          ** CONC OF OTHER    IN MICROGRAMS/M**3                  **

    X-COORD (M)  Y-COORD (M)      CONC                X-COORD (M)  Y-COORD (M)      CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     382071.00   3765565.00     39.30780              382071.00   3765565.00     39.30780
     382071.00   3765565.00     39.30780              382071.00   3765565.00     39.30780
     382071.00   3765565.00     39.30780              382071.00   3765565.00     39.30780
     382071.00   3765565.00     39.30780              382051.00   3765530.00     61.26981
     382051.00   3765530.00     61.26981              382051.00   3765530.00     61.26981
     382051.00   3765530.00     61.26981              382051.00   3765530.00     61.26981
     382051.00   3765530.00     61.26981              382051.00   3765530.00     61.26981
♀*** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                          ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                 ***      15:31:34
                                                                                   PAGE  73
 **MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 3005     ***
                       INCLUDING SOURCE(S):     3005       ,

                        *** NETWORK ID: C1001    ;  NETWORK TYPE: GRIDCART ***

                          ** CONC OF OTHER    IN MICROGRAMS/M**3                  **

  Y-COORD  |                              X-COORD (METERS)
  (METERS) |    381954.00   381974.00   381994.00   382014.00   382034.00   382054.00   382074.00   382094.00   382114.00
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3765640.00 |      9.25752     9.57280     9.83732    10.03865    10.17121    10.22877    10.20321    10.10128     9.92574
 3765620.00 |     10.30451    10.69765    11.02603    11.27988    11.44027    11.50392    11.46441    11.32808    11.10339
 3765600.00 |     11.54704    12.04234    12.45976    12.77849    12.98326    13.05364    12.99826    12.80898    12.50790
 3765580.00 |     13.03355    13.67146    14.21264    14.62611    14.88351    14.96090    14.87612    14.62161    14.21769
 3765560.00 |     14.82728    15.66376    16.37959    16.92165    17.26466    17.36364    17.21845    16.86068    16.31555
```

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3765540.00 | 17.02274 | 18.14431 | 19.11627 | 19.86399 | 20.30159 | 20.42015 | 20.21750 | 19.69176 | 18.91777 |
| 3765520.00 | 19.73202 | 21.27082 | 22.63558 | 23.67967 | 24.31490 | 24.46224 | 24.11281 | 23.33324 | 22.21859 |
| 3765500.00 | 23.12408 | 25.30446 | 27.27995 | 28.81686 | 29.74729 | 29.93398 | 29.36589 | 28.16369 | 26.49980 |
| 3765480.00 | 27.39128 | 30.56870 | 33.53712 | 35.94242 | 37.38194 | 37.62329 | 36.67806 | 34.75547 | 32.18534 |
| 3765460.00 | 32.82220 | 37.60483 | 42.31341 | 46.26512 | 48.69490 | 49.09032 | 47.38192 | 44.07283 | 39.81414 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
PAGE 74

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3005 ***
INCLUDING SOURCE(S): 3005 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 9.68550 |
| 3765620.00 | 10.79602 |
| 3765600.00 | 12.11819 |
| 3765580.00 | 13.69295 |
| 3765560.00 | 15.60494 |
| 3765540.00 | 17.95490 |
| 3765520.00 | 20.88003 |
| 3765500.00 | 24.57859 |
| 3765480.00 | 29.26858 |
| 3765460.00 | 35.32310 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
PAGE 75

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3005 ***
INCLUDING SOURCE(S): 3005 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 16.61729 | 382071.00 | 3765565.00 | 16.61729 |
| 382071.00 | 3765565.00 | 16.61729 | 382071.00 | 3765565.00 | 16.61729 |
| 382071.00 | 3765565.00 | 16.61729 | 382071.00 | 3765565.00 | 16.61729 |
| 382071.00 | 3765565.00 | 16.61729 | 382051.00 | 3765530.00 | 22.29586 |
| 382051.00 | 3765530.00 | 22.29586 | 382051.00 | 3765530.00 | 22.29586 |

382051.00 3765530.00 22.29586 382051.00 3765530.00 22.29586
382051.00 3765530.00 22.29586 382051.00 3765530.00 22.29586

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3006 ***
INCLUDING SOURCE(S): 3006 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 6.51163 | 6.59900 | 6.65592 | 6.67993 | 6.67205 | 6.63254 | 6.56010 | 6.45956 | 6.33280 |
| 3765620.00 | 7.12224 | 7.22567 | 7.29100 | 7.31882 | 7.30524 | 7.25333 | 7.16347 | 7.04046 | 6.88855 |
| 3765600.00 | 7.82961 | 7.95212 | 8.02919 | 8.05854 | 8.04047 | 7.97215 | 7.86175 | 7.70812 | 7.52080 |
| 3765580.00 | 8.65456 | 8.80286 | 8.89496 | 8.92778 | 8.89959 | 8.80929 | 8.66994 | 8.48111 | 8.25056 |
| 3765560.00 | 9.62383 | 9.80540 | 9.91652 | 9.95065 | 9.91290 | 9.79827 | 9.61497 | 9.37757 | 9.09390 |
| 3765540.00 | 10.77772 | 11.00355 | 11.13979 | 11.18062 | 11.11760 | 10.96633 | 10.73674 | 10.43140 | 10.07188 |
| 3765520.00 | 12.16304 | 12.44819 | 12.62052 | 12.66269 | 12.58146 | 12.37977 | 12.07097 | 11.67777 | 11.22109 |
| 3765500.00 | 13.85292 | 14.22357 | 14.44257 | 14.48960 | 14.37306 | 14.09946 | 13.68943 | 13.17541 | 12.58723 |
| 3765480.00 | 15.93527 | 16.42670 | 16.71014 | 16.77091 | 16.60097 | 16.22213 | 15.67300 | 14.99489 | 14.23040 |
| 3765460.00 | 18.55736 | 19.22670 | 19.61010 | 19.67694 | 19.43051 | 18.90701 | 18.15206 | 17.23575 | 16.20988 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3006 ***
INCLUDING SOURCE(S): 3006 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 6.18363 |
| 3765620.00 | 6.70950 |
| 3765600.00 | 7.30810 |
| 3765580.00 | 7.98693 |
| 3765560.00 | 8.76739 |
| 3765540.00 | 9.67031 |

| | |
|---|---|
| 3765520.00 | 10.72160 |
| 3765500.00 | 11.95749 |
| 3765480.00 | 13.40923 |
| 3765460.00 | 15.14318 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3006 ***
INCLUDING SOURCE(S): 3006 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 9.39487 | 382071.00 | 3765565.00 | 9.39487 |
| 382071.00 | 3765565.00 | 9.39487 | 382071.00 | 3765565.00 | 9.39487 |
| 382071.00 | 3765565.00 | 9.39487 | 382071.00 | 3765565.00 | 9.39487 |
| 382071.00 | 3765565.00 | 9.39487 | 382051.00 | 3765530.00 | 11.66961 |
| 382051.00 | 3765530.00 | 11.66961 | 382051.00 | 3765530.00 | 11.66961 |
| 382051.00 | 3765530.00 | 11.66961 | 382051.00 | 3765530.00 | 11.66961 |
| 382051.00 | 3765530.00 | 11.66961 | 382051.00 | 3765530.00 | 11.66961 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3007 ***
INCLUDING SOURCE(S): 3007 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 4.70605 | 4.71941 | 4.71613 | 4.69596 | 4.66110 | 4.61234 | 4.54865 | 4.47344 | 4.38726 |
| 3765620.00 | 5.06792 | 5.08239 | 5.07630 | 5.05267 | 5.00971 | 4.95065 | 4.87571 | 4.78782 | 4.68891 |
| 3765600.00 | 5.47720 | 5.49173 | 5.48321 | 5.45275 | 5.40234 | 5.33056 | 5.24334 | 5.13872 | 5.02193 |
| 3765580.00 | 5.94152 | 5.95724 | 5.94563 | 5.90804 | 5.84540 | 5.75781 | 5.65405 | 5.53215 | 5.39519 |
| 3765560.00 | 6.47008 | 6.48695 | 6.47116 | 6.42267 | 6.34803 | 6.24433 | 6.11644 | 5.97171 | 5.81207 |
| 3765540.00 | 7.07894 | 7.09709 | 7.07584 | 7.01737 | 6.91945 | 6.79346 | 6.64378 | 6.46871 | 6.27740 |
| 3765520.00 | 7.78193 | 7.80122 | 7.77472 | 7.69869 | 7.58252 | 7.42836 | 7.24171 | 7.03121 | 6.80305 |
| 3765500.00 | 8.60466 | 8.62752 | 8.59153 | 8.49517 | 8.35007 | 8.15971 | 7.93154 | 7.67643 | 7.40232 |
| 3765480.00 | 9.56857 | 9.59549 | 9.54618 | 9.42865 | 9.24546 | 9.00806 | 8.72974 | 8.42100 | 8.09186 |

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 3765460.00 |    10.71873    10.75059    10.68636    10.53310    10.30269    10.01056     9.66664     9.28834     8.88240
♀*** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                   ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                   ***      15:31:34
                                                                                  PAGE  80
**MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 3007     ***
                       INCLUDING SOURCE(S):     3007       ,

                        *** NETWORK ID: C1001    ;  NETWORK TYPE: GRIDCART ***

                           ** CONC OF OTHER    IN MICROGRAMS/M**3                   **

  Y-COORD  |                                X-COORD (METERS)
  (METERS) |    382134.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3765640.00 |     4.29180
 3765620.00 |     4.57868
 3765600.00 |     4.89679
 3765580.00 |     5.24636
 3765560.00 |     5.63618
 3765540.00 |     6.07259
 3765520.00 |     6.56307
 3765500.00 |     7.11892
 3765480.00 |     7.74589
 3765460.00 |     8.46706
♀*** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                   ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                   ***      15:31:34
                                                                                  PAGE  81
**MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 3007     ***
                       INCLUDING SOURCE(S):     3007       ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                           ** CONC OF OTHER    IN MICROGRAMS/M**3                   **

    X-COORD (M)  Y-COORD (M)      CONC                X-COORD (M)  Y-COORD (M)      CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     382071.00  3765565.00     6.01585              382071.00  3765565.00     6.01585
     382071.00  3765565.00     6.01585              382071.00  3765565.00     6.01585
     382071.00  3765565.00     6.01585              382071.00  3765565.00     6.01585
     382071.00  3765565.00     6.01585              382051.00  3765530.00     7.12128
     382051.00  3765530.00     7.12128              382051.00  3765530.00     7.12128
     382051.00  3765530.00     7.12128              382051.00  3765530.00     7.12128
     382051.00  3765530.00     7.12128              382051.00  3765530.00     7.12128
♀*** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                   ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                   ***      15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3008 ***
INCLUDING SOURCE(S): 3008 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 3.07599 | 3.05967 | 3.03681 | 3.00762 | 2.97336 | 2.93451 | 2.89066 | 2.84327 | 2.79246 |
| 3765620.00 | 3.25574 | 3.23688 | 3.21022 | 3.17748 | 3.13814 | 3.09375 | 3.04442 | 2.99131 | 2.93510 |
| 3765600.00 | 3.45316 | 3.43081 | 3.40020 | 3.36225 | 3.31808 | 3.26725 | 3.21219 | 3.15195 | 3.08845 |
| 3765580.00 | 3.67018 | 3.64423 | 3.60899 | 3.56553 | 3.51454 | 3.45618 | 3.39389 | 3.32668 | 3.25543 |
| 3765560.00 | 3.90898 | 3.87870 | 3.83794 | 3.78728 | 3.72960 | 3.66385 | 3.59174 | 3.51580 | 3.43635 |
| 3765540.00 | 4.17390 | 4.13846 | 4.09114 | 4.03346 | 3.96491 | 3.88973 | 3.80927 | 3.72242 | 3.63198 |
| 3765520.00 | 4.46756 | 4.42586 | 4.37143 | 4.30376 | 4.22649 | 4.14026 | 4.04659 | 3.94787 | 3.84554 |
| 3765500.00 | 4.79595 | 4.74750 | 4.68372 | 4.60502 | 4.51557 | 4.41627 | 4.30894 | 4.19634 | 4.08015 |
| 3765480.00 | 5.16220 | 5.10548 | 5.03029 | 4.94017 | 4.83614 | 4.72129 | 4.59884 | 4.47093 | 4.33947 |
| 3765460.00 | 5.57547 | 5.50862 | 5.42056 | 5.31450 | 5.19398 | 5.06269 | 4.92220 | 4.77604 | 4.62447 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3008 ***
INCLUDING SOURCE(S): 3008 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 2.73880 |
| 3765620.00 | 2.87539 |
| 3765600.00 | 3.02300 |
| 3765580.00 | 3.18101 |
| 3765560.00 | 3.35228 |
| 3765540.00 | 3.53834 |
| 3765520.00 | 3.74089 |
| 3765500.00 | 3.96273 |
| 3765480.00 | 4.20429 |
| 3765460.00 | 4.47157 |

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3008 ***
INCLUDING SOURCE(S): 3008 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 3.55174 | 382071.00 | 3765565.00 | 3.55174 |
| 382071.00 | 3765565.00 | 3.55174 | 382071.00 | 3765565.00 | 3.55174 |
| 382071.00 | 3765565.00 | 3.55174 | 382071.00 | 3765565.00 | 3.55174 |
| 382071.00 | 3765565.00 | 3.55174 | 382051.00 | 3765530.00 | 4.02399 |
| 382051.00 | 3765530.00 | 4.02399 | 382051.00 | 3765530.00 | 4.02399 |
| 382051.00 | 3765530.00 | 4.02399 | 382051.00 | 3765530.00 | 4.02399 |
| 382051.00 | 3765530.00 | 4.02399 | 382051.00 | 3765530.00 | 4.02399 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3009 ***
INCLUDING SOURCE(S): 3009 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 1.90531 | 1.88991 | 1.87230 | 1.85261 | 1.83136 | 1.80872 | 1.78448 | 1.75922 | 1.73291 |
| 3765620.00 | 1.98660 | 1.96961 | 1.95005 | 1.92864 | 1.90516 | 1.88022 | 1.85381 | 1.82633 | 1.79801 |
| 3765600.00 | 2.07366 | 2.05469 | 2.03314 | 2.00939 | 1.98387 | 1.95636 | 1.92776 | 1.89762 | 1.86661 |
| 3765580.00 | 2.16684 | 2.14585 | 2.12207 | 2.09594 | 2.06768 | 2.03730 | 2.00605 | 1.97344 | 1.93971 |
| 3765560.00 | 2.26653 | 2.24324 | 2.21695 | 2.18788 | 2.15705 | 2.12399 | 2.08924 | 2.05364 | 2.01719 |
| 3765540.00 | 2.37380 | 2.34792 | 2.31880 | 2.28697 | 2.25218 | 2.21584 | 2.17835 | 2.13914 | 2.09909 |
| 3765520.00 | 2.48896 | 2.46013 | 2.42807 | 2.39256 | 2.35477 | 2.31479 | 2.27300 | 2.23008 | 2.18635 |
| 3765500.00 | 2.61333 | 2.58142 | 2.54576 | 2.50641 | 2.46464 | 2.42058 | 2.37466 | 2.32759 | 2.27978 |
| 3765480.00 | 2.74707 | 2.71164 | 2.67185 | 2.62875 | 2.58249 | 2.53384 | 2.48362 | 2.43229 | 2.38025 |
| 3765460.00 | 2.89206 | 2.85260 | 2.80845 | 2.76043 | 2.70942 | 2.65629 | 2.60124 | 2.54509 | 2.48762 |

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**MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 3009     ***
                       INCLUDING SOURCE(S):     3009       ,

                        *** NETWORK ID: C1001    ;  NETWORK TYPE: GRIDCART ***

                           ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

  Y-COORD  |                              X-COORD (METERS)
  (METERS) |    382134.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3765640.00 |     1.70573
 3765620.00 |     1.76857
 3765600.00 |     1.83518
 3765580.00 |     1.90511
 3765560.00 |     1.97932
 3765540.00 |     2.05820
 3765520.00 |     2.14213
 3765500.00 |     2.23186
 3765480.00 |     2.32720
 3765460.00 |     2.42991
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                  ***      11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                   ***      15:31:34
                                                                                   PAGE  87
**MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 3009     ***
                       INCLUDING SOURCE(S):     3009       ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                           ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

    X-COORD (M)  Y-COORD (M)      CONC                X-COORD (M)  Y-COORD (M)      CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     382071.00   3765565.00     2.07325              382071.00   3765565.00     2.07325
     382071.00   3765565.00     2.07325              382071.00   3765565.00     2.07325
     382071.00   3765565.00     2.07325              382071.00   3765565.00     2.07325
     382071.00   3765565.00     2.07325              382051.00   3765530.00     2.27013
     382051.00   3765530.00     2.27013              382051.00   3765530.00     2.27013
     382051.00   3765530.00     2.27013              382051.00   3765530.00     2.27013
     382051.00   3765530.00     2.27013              382051.00   3765530.00     2.27013
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                  ***      11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                   ***      15:31:34
                                                                                   PAGE  88
**MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 3010     ***
```

INCLUDING SOURCE(S): 3010 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 2.53703 | 2.52202 | 2.50271 | 2.47925 | 2.45251 | 2.42280 | 2.38977 | 2.35443 | 2.31678 |
| 3765620.00 | 2.66813 | 2.65113 | 2.62905 | 2.60309 | 2.57285 | 2.53938 | 2.50270 | 2.46356 | 2.42236 |
| 3765600.00 | 2.81060 | 2.79096 | 2.76605 | 2.73648 | 2.70300 | 2.66523 | 2.62481 | 2.58097 | 2.53500 |
| 3765580.00 | 2.96545 | 2.94312 | 2.91495 | 2.88165 | 2.84364 | 2.80094 | 2.75584 | 2.70756 | 2.65660 |
| 3765560.00 | 3.13381 | 3.10832 | 3.07636 | 3.03827 | 2.99593 | 2.94854 | 2.89713 | 2.84333 | 2.78722 |
| 3765540.00 | 3.31816 | 3.28900 | 3.25263 | 3.21000 | 3.16068 | 3.10736 | 3.05083 | 2.99020 | 2.92721 |
| 3765520.00 | 3.51972 | 3.48620 | 3.44517 | 3.39618 | 3.34150 | 3.28141 | 3.21671 | 3.14883 | 3.07857 |
| 3765500.00 | 3.74174 | 3.70364 | 3.65662 | 3.60082 | 3.53874 | 3.47079 | 3.39793 | 3.32175 | 3.24317 |
| 3765480.00 | 3.98546 | 3.94191 | 3.88778 | 3.82515 | 3.75443 | 3.67735 | 3.59571 | 3.51063 | 3.42313 |
| 3765460.00 | 4.25569 | 4.20566 | 4.14377 | 4.07179 | 3.99161 | 3.90526 | 3.81338 | 3.71791 | 3.61877 |



*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3010 ***

INCLUDING SOURCE(S): 3010 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 2.27718 |
| 3765620.00 | 2.37876 |
| 3765600.00 | 2.48772 |
| 3765580.00 | 2.60348 |
| 3765560.00 | 2.72795 |
| 3765540.00 | 2.86201 |
| 3765520.00 | 3.00667 |
| 3765500.00 | 3.16362 |
| 3765480.00 | 3.33292 |
| 3765460.00 | 3.51832 |

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3010 ***
INCLUDING SOURCE(S): 3010 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 2.86869 | 382071.00 | 3765565.00 | 2.86869 |
| 382071.00 | 3765565.00 | 2.86869 | 382071.00 | 3765565.00 | 2.86869 |
| 382071.00 | 3765565.00 | 2.86869 | 382071.00 | 3765565.00 | 2.86869 |
| 382071.00 | 3765565.00 | 2.86869 | 382051.00 | 3765530.00 | 3.20097 |
| 382051.00 | 3765530.00 | 3.20097 | 382051.00 | 3765530.00 | 3.20097 |
| 382051.00 | 3765530.00 | 3.20097 | 382051.00 | 3765530.00 | 3.20097 |
| 382051.00 | 3765530.00 | 3.20097 | 382051.00 | 3765530.00 | 3.20097 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3011 ***
INCLUDING SOURCE(S): 3011 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 \| | 3.92306 | 3.92233 | 3.91021 | 3.88670 | 3.85350 | 3.81124 | 3.75918 | 3.69969 | 3.63305 |
| 3765620.00 \| | 4.19204 | 4.19040 | 4.17491 | 4.14791 | 4.10827 | 4.05834 | 3.99823 | 3.92991 | 3.85461 |
| 3765600.00 \| | 4.49231 | 4.48870 | 4.46990 | 4.43692 | 4.39131 | 4.33214 | 4.26344 | 4.18373 | 4.09643 |
| 3765580.00 \| | 4.82822 | 4.82301 | 4.80016 | 4.76091 | 4.70605 | 4.63569 | 4.55570 | 4.46455 | 4.36406 |
| 3765560.00 \| | 5.20482 | 5.19748 | 5.16952 | 5.12134 | 5.05746 | 4.97596 | 4.87991 | 4.77396 | 4.65905 |
| 3765540.00 \| | 5.63135 | 5.62127 | 5.58698 | 5.53036 | 5.45015 | 5.35371 | 5.24368 | 5.11852 | 4.98379 |
| 3765520.00 \| | 6.11476 | 6.10103 | 6.06006 | 5.98999 | 5.89701 | 5.78233 | 5.64908 | 5.50223 | 5.34517 |
| 3765500.00 \| | 6.66880 | 6.65184 | 6.60086 | 6.51558 | 6.40337 | 6.26612 | 6.10785 | 5.93459 | 5.75052 |
| 3765480.00 \| | 7.30326 | 7.28189 | 7.21785 | 7.11680 | 6.98035 | 6.81491 | 6.62766 | 6.42392 | 6.20875 |
| 3765460.00 \| | 8.04078 | 8.01350 | 7.93457 | 7.80907 | 7.64391 | 7.44727 | 7.22368 | 6.98191 | 6.72444 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3011 ***
INCLUDING SOURCE(S): 3011 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 3.56033 |
| 3765620.00 | 3.77192 |
| 3765600.00 | 4.00396 |
| 3765580.00 | 4.25611 |
| 3765560.00 | 4.53385 |
| 3765540.00 | 4.84079 |
| 3765520.00 | 5.18105 |
| 3765500.00 | 5.56105 |
| 3765480.00 | 5.98325 |
| 3765460.00 | 6.46094 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3011 ***
INCLUDING SOURCE(S): 3011 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 4.81071 | 382071.00 | 3765565.00 | 4.81071 |
| 382071.00 | 3765565.00 | 4.81071 | 382071.00 | 3765565.00 | 4.81071 |
| 382071.00 | 3765565.00 | 4.81071 | 382071.00 | 3765565.00 | 4.81071 |
| 382071.00 | 3765565.00 | 4.81071 | 382051.00 | 3765530.00 | 5.57757 |
| 382051.00 | 3765530.00 | 5.57757 | 382051.00 | 3765530.00 | 5.57757 |
| 382051.00 | 3765530.00 | 5.57757 | 382051.00 | 3765530.00 | 5.57757 |
| 382051.00 | 3765530.00 | 5.57757 | 382051.00 | 3765530.00 | 5.57757 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3012 ***
INCLUDING SOURCE(S): 3012 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 5.14271 | 5.17886 | 5.19534 | 5.19131 | 5.16893 | 5.12871 | 5.06907 | 4.99393 | 4.90380 |
| 3765620.00 | 5.56031 | 5.60160 | 5.61834 | 5.61349 | 5.58425 | 5.53402 | 5.46268 | 5.37355 | 5.26889 |
| 3765600.00 | 6.03571 | 6.08182 | 6.10012 | 6.09104 | 6.05627 | 5.99341 | 5.90930 | 5.80124 | 5.67562 |
| 3765580.00 | 6.57890 | 6.63241 | 6.65251 | 6.63973 | 6.59422 | 6.51529 | 6.41335 | 6.28566 | 6.13604 |
| 3765560.00 | 7.20206 | 7.26451 | 7.28648 | 7.26642 | 7.21125 | 7.11636 | 6.98722 | 6.83287 | 6.65582 |
| 3765540.00 | 7.92623 | 7.99994 | 8.02408 | 7.99940 | 7.92134 | 7.80322 | 7.64999 | 7.45921 | 7.24281 |
| 3765520.00 | 8.77034 | 8.85807 | 8.88719 | 8.85018 | 8.75694 | 8.60873 | 8.41193 | 8.17767 | 7.91447 |
| 3765500.00 | 9.76901 | 9.87801 | 9.91024 | 9.85992 | 9.73937 | 9.55132 | 9.30477 | 9.01428 | 8.69118 |
| 3765480.00 | 10.95303 | 11.08978 | 11.12493 | 11.06382 | 10.90592 | 10.66426 | 10.35607 | 9.99606 | 9.59916 |
| 3765460.00 | 12.38527 | 12.55957 | 12.60264 | 12.51636 | 12.31160 | 12.00675 | 11.61500 | 11.16168 | 10.65842 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3012 ***
INCLUDING SOURCE(S): 3012 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 4.80074 |
| 3765620.00 | 5.14835 |
| 3765600.00 | 5.53724 |
| 3765580.00 | 5.96863 |
| 3765560.00 | 6.45463 |
| 3765540.00 | 7.00480 |
| 3765520.00 | 7.63069 |
| 3765500.00 | 8.34951 |
| 3765480.00 | 9.17201 |
| 3765460.00 | 10.13327 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3012 ***
INCLUDING SOURCE(S): 3012 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 6.85767 | 382071.00 | 3765565.00 | 6.85767 |
| 382071.00 | 3765565.00 | 6.85767 | 382071.00 | 3765565.00 | 6.85767 |
| 382071.00 | 3765565.00 | 6.85767 | 382071.00 | 3765565.00 | 6.85767 |
| 382071.00 | 3765565.00 | 6.85767 | 382051.00 | 3765530.00 | 8.21132 |
| 382051.00 | 3765530.00 | 8.21132 | 382051.00 | 3765530.00 | 8.21132 |
| 382051.00 | 3765530.00 | 8.21132 | 382051.00 | 3765530.00 | 8.21132 |
| 382051.00 | 3765530.00 | 8.21132 | 382051.00 | 3765530.00 | 8.21132 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3013 ***
INCLUDING SOURCE(S): 3013 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 \| | 7.00228 | 7.14174 | 7.24829 | 7.31763 | 7.34939 | 7.34241 | 7.29381 | 7.20827 | 7.08729 |
| 3765620.00 \| | 7.68305 | 7.85059 | 7.97674 | 8.06016 | 8.09426 | 8.08058 | 8.01790 | 7.91065 | 7.76313 |
| 3765600.00 \| | 8.47493 | 8.67710 | 8.82983 | 8.92766 | 8.96807 | 8.94498 | 8.86596 | 8.72793 | 8.54160 |
| 3765580.00 \| | 9.40239 | 9.65125 | 9.83882 | 9.95749 | 10.00113 | 9.96459 | 9.86084 | 9.68734 | 9.45262 |
| 3765560.00 \| | 10.49698 | 10.80735 | 11.04069 | 11.18345 | 11.23598 | 11.18692 | 11.04224 | 10.81764 | 10.52201 |
| 3765540.00 \| | 11.80604 | 12.19963 | 12.49521 | 12.67723 | 12.72653 | 12.65491 | 12.46952 | 12.17035 | 11.78419 |
| 3765520.00 \| | 13.38469 | 13.89245 | 14.27724 | 14.50481 | 14.57027 | 14.46624 | 14.20197 | 13.80317 | 13.29709 |
| 3765500.00 \| | 15.31893 | 15.99235 | 16.50088 | 16.79846 | 16.87484 | 16.72148 | 16.35436 | 15.81242 | 15.13705 |
| 3765480.00 \| | 17.71144 | 18.62469 | 19.31324 | 19.72450 | 19.81395 | 19.58316 | 19.06859 | 18.32274 | 17.40934 |
| 3765460.00 \| | 20.73213 | 22.00633 | 22.97759 | 23.54761 | 23.66202 | 23.32579 | 22.57919 | 21.51919 | 20.23187 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3013 ***
INCLUDING SOURCE(S): 3013 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 6.93509 |
| 3765620.00 | 7.57712 |
| 3765600.00 | 8.31694 |
| 3765580.00 | 9.16736 |
| 3765560.00 | 10.15990 |
| 3765540.00 | 11.32774 |
| 3765520.00 | 12.71336 |
| 3765500.00 | 14.37722 |
| 3765480.00 | 16.37899 |
| 3765460.00 | 18.83506 |

♀*** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3013 ***
INCLUDING SOURCE(S): 3013 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 10.75376 | 382071.00 | 3765565.00 | 10.75376 |
| 382071.00 | 3765565.00 | 10.75376 | 382071.00 | 3765565.00 | 10.75376 |
| 382071.00 | 3765565.00 | 10.75376 | 382071.00 | 3765565.00 | 10.75376 |
| 382071.00 | 3765565.00 | 10.75376 | 382051.00 | 3765530.00 | 13.53179 |
| 382051.00 | 3765530.00 | 13.53179 | 382051.00 | 3765530.00 | 13.53179 |
| 382051.00 | 3765530.00 | 13.53179 | 382051.00 | 3765530.00 | 13.53179 |
| 382051.00 | 3765530.00 | 13.53179 | 382051.00 | 3765530.00 | 13.53179 |

♀*** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3014 ***
INCLUDING SOURCE(S): 3014 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 9.85681 | 10.28417 | 10.66480 | 10.98123 | 11.22290 | 11.37766 | 11.43049 | 11.38510 | 11.24120 |
| 3765620.00 | 10.98652 | 11.52336 | 12.00201 | 12.40689 | 12.70935 | 12.89831 | 12.95836 | 12.89083 | 12.70134 |
| 3765600.00 | 12.32449 | 13.00620 | 13.62209 | 14.14143 | 14.53692 | 14.77217 | 14.84683 | 14.74039 | 14.47419 |
| 3765580.00 | 13.91914 | 14.80312 | 15.61169 | 16.29905 | 16.81643 | 17.11580 | 17.20247 | 17.05142 | 16.67898 |
| 3765560.00 | 15.83117 | 16.99700 | 18.08046 | 19.00439 | 19.71535 | 20.12666 | 20.20773 | 19.97676 | 19.45318 |
| 3765540.00 | 18.14903 | 19.71818 | 21.20733 | 22.50831 | 23.47459 | 24.04378 | 24.16233 | 23.78623 | 22.99800 |
| 3765520.00 | 20.96547 | 23.11942 | 25.23188 | 27.09993 | 28.54772 | 29.37670 | 29.47628 | 28.86897 | 27.66069 |
| 3765500.00 | 24.41196 | 27.44709 | 30.52917 | 33.34802 | 35.57961 | 36.85400 | 36.95616 | 35.92730 | 33.98417 |
| 3765480.00 | 28.59526 | 32.95084 | 37.58941 | 42.09637 | 45.76093 | 47.86663 | 47.98830 | 46.16145 | 42.86404 |
| 3765460.00 | 33.64159 | 40.00297 | 47.26830 | 54.81324 | 61.37507 | 65.34004 | 65.44834 | 61.83286 | 55.64205 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3014 ***
INCLUDING SOURCE(S): 3014 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 11.00746 |
| 3765620.00 | 12.39387 |
| 3765600.00 | 14.07475 |
| 3765580.00 | 16.11854 |
| 3765560.00 | 18.66132 |
| 3765540.00 | 21.87771 |
| 3765520.00 | 26.01835 |
| 3765500.00 | 31.46937 |
| 3765480.00 | 38.70377 |
| 3765460.00 | 48.55978 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3014 ***
INCLUDING SOURCE(S): 3014 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 19.39413 | 382071.00 | 3765565.00 | 19.39413 |
| 382071.00 | 3765565.00 | 19.39413 | 382071.00 | 3765565.00 | 19.39413 |
| 382071.00 | 3765565.00 | 19.39413 | 382071.00 | 3765565.00 | 19.39413 |
| 382071.00 | 3765565.00 | 19.39413 | 382051.00 | 3765530.00 | 26.42202 |
| 382051.00 | 3765530.00 | 26.42202 | 382051.00 | 3765530.00 | 26.42202 |
| 382051.00 | 3765530.00 | 26.42202 | 382051.00 | 3765530.00 | 26.42202 |
| 382051.00 | 3765530.00 | 26.42202 | 382051.00 | 3765530.00 | 26.42202 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3015 ***
INCLUDING SOURCE(S): 3015 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 13.96602 | 15.18240 | 16.42413 | 17.63596 | 18.75987 | 19.71858 | 20.42022 | 20.81094 | 20.84871 |
| 3765620.00 | 15.68110 | 17.25270 | 18.89279 | 20.53890 | 22.08728 | 23.42469 | 24.41303 | 24.95265 | 24.98679 |
| 3765600.00 | 17.66498 | 19.71643 | 21.92143 | 24.19558 | 26.41042 | 28.34838 | 29.81717 | 30.58249 | 30.57049 |
| 3765580.00 | 19.93760 | 22.63958 | 25.65521 | 28.88596 | 32.14059 | 35.07311 | 37.34916 | 38.54300 | 38.44956 |
| 3765560.00 | 22.50851 | 26.07569 | 30.23995 | 34.91514 | 39.90834 | 44.64956 | 48.36276 | 50.32807 | 50.07635 |
| 3765540.00 | 25.31974 | 30.02937 | 35.82147 | 42.76930 | 50.63513 | 58.71930 | 65.54769 | 69.06789 | 68.24732 |
| 3765520.00 | 28.28594 | 34.40044 | 42.40553 | 52.76789 | 65.80198 | 80.67506 | 94.31263 | 101.70373 | 99.24582 |
| 3765500.00 | 31.16405 | 38.89100 | 49.68935 | 65.04562 | 86.88258 | 116.19660 | 148.27226 | 167.49509 | 158.58962 |
| 3765480.00 | 33.68649 | 42.98791 | 56.82886 | 78.49060 | 114.03271 | 173.83919 | 0.00000 | 0.00000 | 0.00000 |
| 3765460.00 | 35.42120 | 45.90866 | 62.29293 | 89.86457 | 141.65220 | 254.63397 | 0.00000 | 0.00000 | 0.00000 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3015 ***
INCLUDING SOURCE(S): 3015 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|

```
 3765640.00 |     20.53573
 3765620.00 |     24.50149
 3765600.00 |     29.82111
 3765580.00 |     37.12471
 3765560.00 |     47.62949
 3765540.00 |     63.44881
 3765520.00 |     88.53685
 3765500.00 |    130.47028
 3765480.00 |    201.71224
 3765460.00 |      0.00000
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                          ***      11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                ***      15:31:34
                                                                                  PAGE 105
 **MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 3015     ***
                       INCLUDING SOURCE(S):     3015       ,

                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF OTHER    IN MICROGRAMS/M**3                  **

    X-COORD (M)  Y-COORD (M)      CONC                X-COORD (M)  Y-COORD (M)      CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     382071.00   3765565.00     44.78524              382071.00   3765565.00     44.78524
     382071.00   3765565.00     44.78524              382071.00   3765565.00     44.78524
     382071.00   3765565.00     44.78524              382071.00   3765565.00     44.78524
     382071.00   3765565.00     44.78524              382051.00   3765530.00     66.79094
     382051.00   3765530.00     66.79094              382051.00   3765530.00     66.79094
     382051.00   3765530.00     66.79094              382051.00   3765530.00     66.79094
     382051.00   3765530.00     66.79094              382051.00   3765530.00     66.79094
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                          ***      11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                ***      15:31:34
                                                                                  PAGE 106
 **MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: 3016     ***
                       INCLUDING SOURCE(S):     3016       ,

                        *** NETWORK ID: C1001    ;  NETWORK TYPE: GRIDCART ***

                         ** CONC OF OTHER    IN MICROGRAMS/M**3                  **

  Y-COORD  |                              X-COORD (METERS)
  (METERS) |   381954.00   381974.00   381994.00   382014.00   382034.00   382054.00   382074.00   382094.00   382114.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3765640.00 |    17.52336    20.16672    23.37089    27.24319    31.82050    37.04565    42.68147    48.04400    52.18838
 3765620.00 |    19.08162    22.30128    26.36290    31.46280    37.88480    45.73937    54.85793    64.23557    71.89287
```

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3765600.00 | 20.58745 | 24.44526 | 29.48212 | 36.14758 | 45.03116 | 56.92982 | 72.17680 | 89.96593 | 106.13760 |
| 3765580.00 | 21.94194 | 26.42293 | 32.47909 | 40.88511 | 52.90865 | 70.64900 | 96.67737 | 132.96767 | 173.38416 |
| 3765560.00 | 23.03050 | 28.05133 | 35.03213 | 45.15399 | 60.46622 | 85.27667 | 128.27723 | 205.12030 | 0.00000 |
| 3765540.00 | 23.71301 | 29.08696 | 36.68926 | 47.97054 | 65.94389 | 97.05319 | 158.16091 | 0.00000 | 0.00000 |
| 3765520.00 | 23.92140 | 29.39309 | 37.14286 | 48.74512 | 67.28461 | 100.05127 | 167.30172 | 0.00000 | 0.00000 |
| 3765500.00 | 23.60922 | 28.88235 | 36.27931 | 47.15692 | 64.08597 | 92.72496 | 146.76253 | 0.00000 | 0.00000 |
| 3765480.00 | 22.84081 | 27.68194 | 34.31935 | 43.70558 | 57.57736 | 79.07658 | 113.81531 | 169.80678 | 245.57164 |
| 3765460.00 | 21.68866 | 25.94260 | 31.58236 | 39.20456 | 49.69955 | 64.32830 | 84.51966 | 110.20009 | 136.11714 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3016 ***
INCLUDING SOURCE(S): 3016 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 54.14300 |
| 3765620.00 | 75.51352 |
| 3765600.00 | 113.96572 |
| 3765580.00 | 194.79116 |
| 3765560.00 | 0.00000 |
| 3765540.00 | 0.00000 |
| 3765520.00 | 0.00000 |
| 3765500.00 | 0.00000 |
| 3765480.00 | 0.00000 |
| 3765460.00 | 148.08509 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3016 ***
INCLUDING SOURCE(S): 3016 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 112.78240 | 382071.00 | 3765565.00 | 112.78240 |
| 382071.00 | 3765565.00 | 112.78240 | 382071.00 | 3765565.00 | 112.78240 |

| | | | | | |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 112.78240 | 382071.00 | 3765565.00 | 112.78240 |
| 382071.00 | 3765565.00 | 112.78240 | 382051.00 | 3765530.00 | 93.60928 |
| 382051.00 | 3765530.00 | 93.60928 | 382051.00 | 3765530.00 | 93.60928 |
| 382051.00 | 3765530.00 | 93.60928 | 382051.00 | 3765530.00 | 93.60928 |
| 382051.00 | 3765530.00 | 93.60928 | 382051.00 | 3765530.00 | 93.60928 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3017 ***
INCLUDING SOURCE(S): 3017 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 17.06493 | 20.12760 | 24.16368 | 29.64566 | 37.33307 | 48.59621 | 66.13809 | 95.32374 | 148.19265 |
| 3765620.00 | 17.37899 | 20.57038 | 24.82042 | 30.63425 | 38.95518 | 51.47489 | 71.75511 | 107.98725 | 182.97771 |
| 3765600.00 | 17.43445 | 20.64988 | 24.92552 | 30.78793 | 39.15400 | 51.81010 | 72.32079 | 109.41478 | 186.95385 |
| 3765580.00 | 17.23137 | 20.35102 | 24.46689 | 30.04905 | 37.90533 | 49.53665 | 67.74501 | 98.65495 | 156.05179 |
| 3765560.00 | 16.79267 | 19.71907 | 23.52227 | 28.58194 | 35.48692 | 45.28659 | 59.79377 | 81.95096 | 116.51752 |
| 3765540.00 | 16.14888 | 18.81000 | 22.19834 | 26.58024 | 32.36244 | 40.13970 | 50.78354 | 65.45350 | 84.88067 |
| 3765520.00 | 15.35835 | 17.71619 | 20.64293 | 24.31997 | 28.96380 | 34.88089 | 42.42960 | 51.83656 | 62.80938 |
| 3765500.00 | 14.46850 | 16.51095 | 18.98428 | 21.99365 | 25.64343 | 30.04982 | 35.30208 | 41.35216 | 47.78563 |
| 3765480.00 | 13.53563 | 15.27741 | 17.33416 | 19.75382 | 22.58392 | 25.84470 | 29.50746 | 33.44370 | 37.34426 |
| 3765460.00 | 12.59276 | 14.06110 | 15.75137 | 17.68310 | 19.86368 | 22.27399 | 24.85690 | 27.48321 | 29.95714 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3017 ***
INCLUDING SOURCE(S): 3017 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 249.39129 |
| 3765620.00 | 0.00000 |
| 3765600.00 | 0.00000 |

| | |
|---|---|
| 3765580.00 | 0.00000 |
| 3765560.00 | 168.34237 |
| 3765540.00 | 107.98991 |
| 3765520.00 | 74.01676 |
| 3765500.00 | 53.71258 |
| 3765480.00 | 40.74880 |
| 3765460.00 | 31.98663 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3017 ***
INCLUDING SOURCE(S): 3017 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 59.16545 | 382071.00 | 3765565.00 | 59.16545 |
| 382071.00 | 3765565.00 | 59.16545 | 382071.00 | 3765565.00 | 59.16545 |
| 382071.00 | 3765565.00 | 59.16545 | 382071.00 | 3765565.00 | 59.16545 |
| 382071.00 | 3765565.00 | 59.16545 | 382051.00 | 3765530.00 | 36.33789 |
| 382051.00 | 3765530.00 | 36.33789 | 382051.00 | 3765530.00 | 36.33789 |
| 382051.00 | 3765530.00 | 36.33789 | 382051.00 | 3765530.00 | 36.33789 |
| 382051.00 | 3765530.00 | 36.33789 | 382051.00 | 3765530.00 | 36.33789 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3018 ***
INCLUDING SOURCE(S): 3018 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 11.98017 | 13.66866 | 15.76534 | 18.41434 | 21.81847 | 26.29417 | 32.36094 | 40.85162 | 53.23562 |
| 3765620.00 | 11.68240 | 13.27177 | 15.22642 | 17.65617 | 20.72988 | 24.67793 | 29.86124 | 36.81410 | 46.33213 |
| 3765600.00 | 11.29545 | 12.76459 | 14.54457 | 16.72247 | 19.41453 | 22.78342 | 27.04652 | 32.50584 | 39.50599 |
| 3765580.00 | 10.84151 | 12.17513 | 13.76604 | 15.67614 | 17.98475 | 20.78962 | 24.21030 | 28.38501 | 33.43122 |
| 3765560.00 | 10.34242 | 11.53609 | 12.93658 | 14.58590 | 16.53027 | 18.82628 | 21.52893 | 24.68867 | 28.30686 |
| 3765540.00 | 9.81440 | 10.87063 | 12.08915 | 13.49474 | 15.11628 | 16.97645 | 19.09575 | 21.47942 | 24.09249 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3765520.00 | 9.27645 | 10.20266 | 11.25270 | 12.44206 | 13.78212 | 15.28230 | 16.94180 | 18.74544 | 20.65100 |
| 3765500.00 | 8.73972 | 9.54574 | 10.44592 | 11.44703 | 12.55123 | 13.75897 | 15.06099 | 16.43563 | 17.84334 |
| 3765480.00 | 8.21682 | 8.91486 | 9.68326 | 10.52247 | 11.43159 | 12.40478 | 13.43034 | 14.48635 | 15.53894 |
| 3765460.00 | 7.71249 | 8.31514 | 8.96915 | 9.67285 | 10.42184 | 11.20820 | 12.01967 | 12.83654 | 13.63415 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3018 ***
INCLUDING SOURCE(S): 3018 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 72.05831 |
| 3765620.00 | 59.51975 |
| 3765600.00 | 48.39179 |
| 3765580.00 | 39.37293 |
| 3765560.00 | 32.31355 |
| 3765540.00 | 26.84014 |
| 3765520.00 | 22.57694 |
| 3765500.00 | 19.22014 |
| 3765480.00 | 16.54444 |
| 3765460.00 | 14.37680 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3018 ***
INCLUDING SOURCE(S): 3018 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 21.71543 | 382071.00 | 3765565.00 | 21.71543 |
| 382071.00 | 3765565.00 | 21.71543 | 382071.00 | 3765565.00 | 21.71543 |
| 382071.00 | 3765565.00 | 21.71543 | 382071.00 | 3765565.00 | 21.71543 |
| 382071.00 | 3765565.00 | 21.71543 | 382051.00 | 3765530.00 | 15.84484 |
| 382051.00 | 3765530.00 | 15.84484 | 382051.00 | 3765530.00 | 15.84484 |
| 382051.00 | 3765530.00 | 15.84484 | 382051.00 | 3765530.00 | 15.84484 |

382051.00 3765530.00 15.84484 382051.00 3765530.00 15.84484

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3019 ***
INCLUDING SOURCE(S): 3019 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 8.01968 | 8.84094 | 9.79538 | 10.91068 | 12.21838 | 13.76085 | 15.59196 | 17.76995 | 20.36420 |
| 3765620.00 | 7.72673 | 8.48001 | 9.34709 | 10.34520 | 11.50012 | 12.83815 | 14.39215 | 16.19509 | 18.27916 |
| 3765600.00 | 7.41458 | 8.10037 | 8.87985 | 9.76627 | 10.77482 | 11.92398 | 13.23059 | 14.71169 | 16.37702 |
| 3765580.00 | 7.09191 | 7.71086 | 8.40646 | 9.18723 | 10.06288 | 11.04293 | 12.13565 | 13.34718 | 14.67600 |
| 3765560.00 | 6.76595 | 7.32127 | 7.93829 | 8.62248 | 9.37787 | 10.21005 | 11.12115 | 12.11118 | 13.17328 |
| 3765540.00 | 6.44055 | 6.93644 | 7.48141 | 8.07794 | 8.72869 | 9.43363 | 10.19292 | 11.00257 | 11.85445 |
| 3765520.00 | 6.12133 | 6.56255 | 7.04177 | 7.56114 | 8.11970 | 8.71693 | 9.35006 | 10.01411 | 10.70068 |
| 3765500.00 | 5.81032 | 6.20138 | 6.62240 | 7.07376 | 7.55337 | 8.05960 | 8.58886 | 9.13568 | 9.69200 |
| 3765480.00 | 5.51139 | 5.85731 | 6.22662 | 6.61782 | 7.02972 | 7.45941 | 7.90298 | 8.35516 | 8.80853 |
| 3765460.00 | 5.22460 | 5.53026 | 5.85369 | 6.19341 | 6.54723 | 6.91223 | 7.28496 | 7.66008 | 8.03194 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3019 ***
INCLUDING SOURCE(S): 3019 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 23.44416 |
| 3765620.00 | 20.66775 |
| 3765600.00 | 18.22562 |
| 3765580.00 | 16.11053 |
| 3765560.00 | 14.29220 |
| 3765540.00 | 12.73332 |
| 3765520.00 | 11.39615 |

| | |
|---|---|
| 3765500.00 | 10.24612 |
| 3765480.00 | 9.25400 |
| 3765460.00 | 8.39200 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3019 ***
INCLUDING SOURCE(S): 3019 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 11.21821 | 382071.00 | 3765565.00 | 11.21821 |
| 382071.00 | 3765565.00 | 11.21821 | 382071.00 | 3765565.00 | 11.21821 |
| 382071.00 | 3765565.00 | 11.21821 | 382071.00 | 3765565.00 | 11.21821 |
| 382071.00 | 3765565.00 | 11.21821 | 382051.00 | 3765530.00 | 8.96754 |
| 382051.00 | 3765530.00 | 8.96754 | 382051.00 | 3765530.00 | 8.96754 |
| 382051.00 | 3765530.00 | 8.96754 | 382051.00 | 3765530.00 | 8.96754 |
| 382051.00 | 3765530.00 | 8.96754 | 382051.00 | 3765530.00 | 8.96754 |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3020 ***
INCLUDING SOURCE(S): 3020 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 | 382054.00 | 382074.00 | 382094.00 | 382114.00 |
|---|---|---|---|---|---|---|---|---|---|
| 3765640.00 | 5.67310 | 6.10808 | 6.59078 | 7.12667 | 7.72274 | 8.38464 | 9.11717 | 9.92870 | 10.82240 |
| 3765620.00 | 5.45266 | 5.84984 | 6.28682 | 6.76752 | 7.29684 | 7.87623 | 8.51020 | 9.20243 | 9.95427 |
| 3765600.00 | 5.23113 | 5.59242 | 5.98645 | 6.41610 | 6.88445 | 7.39068 | 7.93934 | 8.52825 | 9.15800 |
| 3765580.00 | 5.01122 | 5.33874 | 5.69306 | 6.07577 | 6.48928 | 6.93068 | 7.40418 | 7.90708 | 8.43662 |
| 3765560.00 | 4.79503 | 5.09109 | 5.40883 | 5.74922 | 6.11365 | 6.49941 | 6.90666 | 7.33556 | 7.78277 |
| 3765540.00 | 4.58400 | 4.85115 | 5.13572 | 5.43785 | 5.75853 | 6.09480 | 6.44778 | 6.81355 | 7.19040 |
| 3765520.00 | 4.37942 | 4.62008 | 4.87470 | 5.14269 | 5.42531 | 5.71947 | 6.02372 | 6.33689 | 6.65630 |
| 3765500.00 | 4.18209 | 4.39879 | 4.62649 | 4.86446 | 5.11290 | 5.37067 | 5.63443 | 5.90351 | 6.17541 |
| 3765480.00 | 3.99262 | 4.18755 | 4.39103 | 4.60255 | 4.82112 | 5.04687 | 5.27673 | 5.50912 | 5.74214 |
| 3765460.00 | 3.81135 | 3.98669 | 4.16867 | 4.35660 | 4.54970 | 4.74705 | 4.94734 | 5.14882 | 5.34910 |

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3020 ***
INCLUDING SOURCE(S): 3020 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382134.00 |
|---|---|
| 3765640.00 | 11.79938 |
| 3765620.00 | 10.76014 |
| 3765600.00 | 9.82709 |
| 3765580.00 | 8.98798 |
| 3765560.00 | 8.23986 |
| 3765540.00 | 7.57310 |
| 3765520.00 | 6.97833 |
| 3765500.00 | 6.44778 |
| 3765480.00 | 5.97178 |
| 3765460.00 | 5.54556 |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD ( 43800 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3020 ***
INCLUDING SOURCE(S): 3020 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 6.96298 | 382071.00 | 3765565.00 | 6.96298 |
| 382071.00 | 3765565.00 | 6.96298 | 382071.00 | 3765565.00 | 6.96298 |
| 382071.00 | 3765565.00 | 6.96298 | 382071.00 | 3765565.00 | 6.96298 |
| 382071.00 | 3765565.00 | 6.96298 | 382051.00 | 3765530.00 | 5.85541 |
| 382051.00 | 3765530.00 | 5.85541 | 382051.00 | 3765530.00 | 5.85541 |
| 382051.00 | 3765530.00 | 5.85541 | 382051.00 | 3765530.00 | 5.85541 |
| 382051.00 | 3765530.00 | 5.85541 | 382051.00 | 3765530.00 | 5.85541 |

USC STUDENT HOUSING HRA (AERMOD)
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1001 ***
INCLUDING SOURCE(S): 1001 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 60.46295 (09052507) | 68.67176 (09052507) | 79.17696 (06090401) | 91.46042 (06090401) | 104.98394 (06090401) |
| 3765620.0 | 65.85839 (06090401) | 77.40470 (06090401) | 91.71247 (06090401) | 109.20224 (06090401) | 129.91340 (06090401) |
| 3765600.0 | 72.27422 (06090401) | 86.75982 (06090506) | 105.67603 (06090401) | 130.47209 (06090401) | 0.00000 (00000000) |
| 3765580.0 | 78.23770 (06090506) | 95.85050 (06090401) | 120.10038 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765560.0 | 83.11854 (06090401) | 103.60018 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765540.0 | 97.72472 (07042007) | 117.06557 (07042007) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765520.0 | 110.11661 (07042007) | 129.89893 (07042007) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765500.0 | 115.94112 (07042007) | 135.31901 (07042007) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765480.0 | 112.57911 (07042007) | 129.41530 (07042007) | 148.89238 (07042007) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765460.0 | 102.68963 (07042007) | 115.93544 (07042007) | 130.90567 (07042007) | 0.00000 (00000000) | 0.00000 (00000000) |


**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1001 ***
INCLUDING SOURCE(S): 1001 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 118.72741 (06090401) | 130.83404 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765620.0 | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765600.0 | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765580.0 | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765560.0 | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765540.0 | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765520.0 | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765500.0 | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765480.0 | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765460.0 | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1001 ***
INCLUDING SOURCE(S): 1001 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 0.00000 | (00000000) | 382071.00 | 3765565.00 | 0.00000 | (00000000) |
| 382071.00 | 3765565.00 | 0.00000 | (00000000) | 382071.00 | 3765565.00 | 0.00000 | (00000000) |
| 382071.00 | 3765565.00 | 0.00000 | (00000000) | 382071.00 | 3765565.00 | 0.00000 | (00000000) |
| 382071.00 | 3765565.00 | 0.00000 | (00000000) | 382051.00 | 3765530.00 | 0.00000 | (00000000) |
| 382051.00 | 3765530.00 | 0.00000 | (00000000) | 382051.00 | 3765530.00 | 0.00000 | (00000000) |
| 382051.00 | 3765530.00 | 0.00000 | (00000000) | 382051.00 | 3765530.00 | 0.00000 | (00000000) |
| 382051.00 | 3765530.00 | 0.00000 | (00000000) | 382051.00 | 3765530.00 | 0.00000 | (00000000) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1002 ***
INCLUDING SOURCE(S): 1002 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 23.74452 (11013010) | 25.87765 (10100517) | 29.64665 (10100517) | 32.78688 (10100517) | 35.02626 (10100517) |
| 3765620.0 | 25.67954 (06090401) | 28.41665 (10100517) | 32.52305 (10100517) | 35.87939 (10100517) | 38.17282 (10100517) |
| 3765600.0 | 28.58922 (06090401) | 31.34586 (10100517) | 35.83618 (10100517) | 39.42050 (10100517) | 41.75705 (10100517) |
| 3765580.0 | 32.05604 (06090401) | 34.75471 (10100517) | 39.68185 (10100517) | 43.51306 (10100517) | 45.86186 (10100517) |
| 3765560.0 | 36.23190 (06090401) | 38.75307 (10100517) | 44.17707 (10100517) | 48.26381 (10100517) | 50.59469 (10100517) |
| 3765540.0 | 41.33583 (06090401) | 43.49678 (10100517) | 49.48859 (10100517) | 53.84942 (10100517) | 56.08625 (10100517) |
| 3765520.0 | 47.65935 (06090401) | 49.18389 (10100517) | 55.82755 (10100517) | 60.45123 (10100517) | 62.54048 (10100517) |
| 3765500.0 | 55.64110 (06090401) | 57.68966 (06090401) | 63.49124 (10100517) | 68.36675 (10100517) | 70.17728 (10100517) |
| 3765480.0 | 65.89219 (06090401) | 68.89603 (06090401) | 72.86567 (10100517) | 77.96023 (10100517) | 79.31445 (10100517) |
| 3765460.0 | 79.38761 (06090401) | 83.97457 (06090401) | 86.64290 (06090401) | 89.75909 (10100517) | 90.40720 (10100517) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1002 ***
INCLUDING SOURCE(S): 1002 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 36.21917 (07052117) | 36.50682 (07052117) | 35.60872 (07052117) | 33.63798 (07052117) | 30.80235 (07052117) |
| 3765620.0 | 39.31150 (07052117) | 39.34069 (07052117) | 38.05082 (07052117) | 35.60406 (07052117) | 32.25504 (07052117) |
| 3765600.0 | 42.79584 (07052117) | 42.49844 (07052117) | 40.72657 (07052117) | 37.70912 (07052117) | 33.77469 (07052117) |
| 3765580.0 | 46.73757 (07052117) | 46.01880 (07052117) | 43.66667 (07052117) | 39.97595 (07052117) | 35.35029 (07052117) |
| 3765560.0 | 51.23160 (07052117) | 49.96372 (07052117) | 46.89657 (07052117) | 42.41154 (07052117) | 36.99032 (07052117) |
| 3765540.0 | 56.36224 (07052117) | 54.41892 (07052117) | 50.46758 (07052117) | 45.02574 (07052117) | 38.89159 (11111416) |
| 3765520.0 | 62.29545 (07052117) | 59.45772 (07052117) | 54.42610 (07052117) | 47.84920 (07052117) | 44.50837 (11111416) |
| 3765500.0 | 69.18734 (07052117) | 65.22182 (07052117) | 58.85671 (07052117) | 50.94721 (11111416) | 52.91634 (07040816) |
| 3765480.0 | 77.26762 (07052117) | 71.86541 (07052117) | 63.85804 (07052117) | 64.46623 (07040816) | 67.07896 (07040816) |
| 3765460.0 | 86.91372 (07052117) | 79.63953 (07052117) | 80.30982 (07040816) | 82.39039 (07040816) | 83.03939 (07040816) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1002 ***
INCLUDING SOURCE(S): 1002 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 49.22331 | (07052117) | 382071.00 | 3765565.00 | 49.22331 | (07052117) |
| 382071.00 | 3765565.00 | 49.22331 | (07052117) | 382071.00 | 3765565.00 | 49.22331 | (07052117) |
| 382071.00 | 3765565.00 | 49.22331 | (07052117) | 382071.00 | 3765565.00 | 49.22331 | (07052117) |
| 382071.00 | 3765565.00 | 49.22331 | (07052117) | 382051.00 | 3765530.00 | 59.36424 | (07052117) |
| 382051.00 | 3765530.00 | 59.36424 | (07052117) | 382051.00 | 3765530.00 | 59.36424 | (07052117) |
| 382051.00 | 3765530.00 | 59.36424 | (07052117) | 382051.00 | 3765530.00 | 59.36424 | (07052117) |
| 382051.00 | 3765530.00 | 59.36424 | (07052117) | 382051.00 | 3765530.00 | 59.36424 | (07052117) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1003 ***
INCLUDING SOURCE(S): 1003 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 18.08564 (10100517) | 18.69116 (07052117) | 19.03147 (07052117) | 18.94404 (07052117) | 18.44464 (07052117) |
| 3765620.0 | 19.17640 (10100517) | 19.78252 (07052117) | 20.05290 (07052117) | 19.86136 (07052117) | 19.22735 (07052117) |
| 3765600.0 | 20.35821 (10100517) | 20.95741 (07052117) | 21.14443 (07052117) | 20.82909 (07052117) | 20.04473 (07052117) |
| 3765580.0 | 21.64176 (10100517) | 22.22514 (07052117) | 22.31184 (07052117) | 21.85413 (07052117) | 20.89599 (07052117) |
| 3765560.0 | 23.03722 (10100517) | 23.59197 (07052117) | 23.55815 (07052117) | 22.93340 (07052117) | 21.78119 (07052117) |
| 3765540.0 | 24.58211 (07052117) | 25.07057 (07052117) | 24.89266 (07052117) | 24.07785 (07052117) | 22.69817 (07052117) |
| 3765520.0 | 26.28559 (07052117) | 26.66859 (07052117) | 26.32055 (07052117) | 25.28151 (07052117) | 23.65368 (07052117) |
| 3765500.0 | 28.15072 (07052117) | 28.40368 (07052117) | 27.85103 (07052117) | 26.55450 (07052117) | 24.64129 (07052117) |
| 3765480.0 | 30.19037 (07052117) | 30.28127 (07052117) | 29.48513 (07052117) | 27.89529 (07052117) | 25.65904 (07052117) |
| 3765460.0 | 32.43200 (07052117) | 32.32227 (07052117) | 31.23965 (07052117) | 29.30564 (07052117) | 26.70660 (07052117) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1003 ***
INCLUDING SOURCE(S): 1003 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 17.57340 (07052117) | 16.38958 (07052117) | 14.97127 (07052117) | 13.39998 (07052117) | 11.75761 (07052117) |
| 3765620.0 | 18.20393 (07052117) | 16.86258 (07052117) | 15.29115 (07052117) | 13.58112 (07052117) | 11.81903 (07052117) |
| 3765600.0 | 18.85130 (07052117) | 17.33836 (07052117) | 15.60036 (07052117) | 13.74124 (07052117) | 11.85690 (07052117) |
| 3765580.0 | 19.51284 (07052117) | 17.81058 (07052117) | 15.89589 (07052117) | 13.88036 (07052117) | 12.27965 (11050807) |
| 3765560.0 | 20.18983 (07052117) | 18.27715 (07052117) | 16.17155 (07052117) | 13.99302 (07052117) | 13.04859 (07032617) |
| 3765540.0 | 20.87344 (07052117) | 18.73758 (07052117) | 16.42584 (07052117) | 14.07421 (07052117) | 13.83673 (07032617) |
| 3765520.0 | 21.56930 (07052117) | 19.18290 (07052117) | 16.65295 (07052117) | 14.93996 (07032617) | 14.94869 (11111416) |
| 3765500.0 | 22.26863 (07052117) | 19.61343 (07052117) | 16.85129 (07052117) | 15.90147 (11111416) | 16.63404 (11111416) |
| 3765480.0 | 22.96688 (07052117) | 20.02223 (07052117) | 17.28307 (07032617) | 17.82177 (11111416) | 18.40894 (11111416) |
| 3765460.0 | 23.66534 (07052117) | 20.40720 (07052117) | 19.13220 (11111416) | 19.86757 (11111416) | 20.25350 (11111416) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1003 ***
INCLUDING SOURCE(S): 1003 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 18.45641 | (07052117) | 382071.00 | 3765565.00 | 18.45641 | (07052117) |
| 382071.00 | 3765565.00 | 18.45641 | (07052117) | 382071.00 | 3765565.00 | 18.45641 | (07052117) |
| 382071.00 | 3765565.00 | 18.45641 | (07052117) | 382071.00 | 3765565.00 | 18.45641 | (07052117) |
| 382071.00 | 3765565.00 | 18.45641 | (07052117) | 382051.00 | 3765530.00 | 21.53539 | (07052117) |
| 382051.00 | 3765530.00 | 21.53539 | (07052117) | 382051.00 | 3765530.00 | 21.53539 | (07052117) |
| 382051.00 | 3765530.00 | 21.53539 | (07052117) | 382051.00 | 3765530.00 | 21.53539 | (07052117) |
| 382051.00 | 3765530.00 | 21.53539 | (07052117) | 382051.00 | 3765530.00 | 21.53539 | (07052117) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1004 ***
INCLUDING SOURCE(S): 1004 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 11.83207 (07052117) | 11.52188 (07052117) | 11.03900 (07052117) | 10.40856 (07052117) | 9.66163 (07052117) |
| 3765620.0 | 12.24601 (07052117) | 11.87499 (07052117) | 11.32538 (07052117) | 10.62710 (07052117) | 9.81314 (07052117) |
| 3765600.0 | 12.67365 (07052117) | 12.23535 (07052117) | 11.61375 (07052117) | 10.84196 (07052117) | 9.95790 (07052117) |
| 3765580.0 | 13.11456 (07052117) | 12.60285 (07052117) | 11.90325 (07052117) | 11.05324 (07052117) | 10.09430 (07052117) |
| 3765560.0 | 13.56815 (07052117) | 12.97591 (07052117) | 12.19190 (07052117) | 11.25788 (07052117) | 10.22096 (07052117) |
| 3765540.0 | 14.03505 (07052117) | 13.35460 (07052117) | 12.47937 (07052117) | 11.45676 (07052117) | 10.33594 (07052117) |
| 3765520.0 | 14.51388 (07052117) | 13.73692 (07052117) | 12.76378 (07052117) | 11.64587 (07052117) | 10.43958 (07052117) |
| 3765500.0 | 15.00507 (07052117) | 14.12319 (07052117) | 13.04401 (07052117) | 11.82546 (07052117) | 10.52882 (07052117) |
| 3765480.0 | 15.50613 (07052117) | 14.50980 (07052117) | 13.31662 (07052117) | 11.99258 (07052117) | 10.60187 (07052117) |
| 3765460.0 | 16.01772 (07052117) | 14.89668 (07052117) | 13.58173 (07052117) | 12.14515 (07052117) | 10.65736 (07052117) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1004 ***
INCLUDING SOURCE(S): 1004 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 8.83137 (07052117) | 7.95082 (07052117) | 7.05283 (07052117) | 6.67631 (11050807) | 6.62809 (11050807) |
| 3765620.0 | 8.92053 (07052117) | 7.98499 (07052117) | 7.04068 (07052117) | 6.93880 (11050807) | 6.83546 (11050807) |
| 3765600.0 | 9.00015 (07052117) | 8.00841 (07052117) | 7.23765 (11050807) | 7.19122 (11050807) | 7.02805 (11050807) |
| 3765580.0 | 9.06870 (07052117) | 8.01904 (07052117) | 7.54047 (11050807) | 7.43136 (11050807) | 7.20187 (11050807) |
| 3765560.0 | 9.12579 (07052117) | 8.01619 (07052117) | 7.83310 (11050807) | 7.65519 (11050807) | 7.35466 (11050807) |
| 3765540.0 | 9.16841 (07052117) | 8.22807 (11050807) | 8.11252 (11050807) | 7.85867 (11050807) | 7.49070 (07032617) |
| 3765520.0 | 9.19740 (07052117) | 8.56953 (11050807) | 8.37430 (11050807) | 8.03873 (11050807) | 7.80810 (07032617) |
| 3765500.0 | 9.21004 (07052117) | 8.89781 (11050807) | 8.61499 (11050807) | 8.29388 (07032617) | 8.11630 (11090918) |
| 3765480.0 | 9.42190 (11050807) | 9.20768 (11050807) | 8.83005 (11050807) | 8.65448 (07032617) | 8.78149 (11090918) |
| 3765460.0 | 9.81083 (11050807) | 9.49481 (11050807) | 9.22888 (07032617) | 9.12277 (11090918) | 9.45884 (11090918) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1004 ***
INCLUDING SOURCE(S): 1004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 8.18211 | (07052117) | 382071.00 | 3765565.00 | 8.18211 | (07052117) |
| 382071.00 | 3765565.00 | 8.18211 | (07052117) | 382071.00 | 3765565.00 | 8.18211 | (07052117) |
| 382071.00 | 3765565.00 | 8.18211 | (07052117) | 382071.00 | 3765565.00 | 8.18211 | (07052117) |
| 382071.00 | 3765565.00 | 8.18211 | (07052117) | 382051.00 | 3765530.00 | 9.36600 | (07052117) |
| 382051.00 | 3765530.00 | 9.36600 | (07052117) | 382051.00 | 3765530.00 | 9.36600 | (07052117) |
| 382051.00 | 3765530.00 | 9.36600 | (07052117) | 382051.00 | 3765530.00 | 9.36600 | (07052117) |
| 382051.00 | 3765530.00 | 9.36600 | (07052117) | 382051.00 | 3765530.00 | 9.36600 | (07052117) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1005 ***
INCLUDING SOURCE(S): 1005 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 51.72931 (07042007) | 55.03251 (07042007) | 58.27879 (07042007) | 61.33378 (07042007) | 64.80453 (07042007) |
| 3765620.0 | 45.75069 (07042007) | 47.88186 (07042007) | 49.67846 (07042007) | 51.64791 (07042007) | 53.36357 (07042007) |
| 3765600.0 | 38.76265 (07042007) | 39.76440 (07042007) | 40.59064 (07042007) | 41.33541 (07042007) | 44.42451 (06090401) |
| 3765580.0 | 31.38073 (07042007) | 31.62976 (07042007) | 33.02810 (06090401) | 36.62580 (06090401) | 40.73615 (06090401) |
| 3765560.0 | 27.68699 (09042707) | 28.74148 (09052707) | 30.79325 (06090401) | 33.85083 (06090401) | 37.27038 (06090401) |
| 3765540.0 | 25.48730 (09052707) | 26.88508 (09052707) | 28.64674 (06090401) | 31.23261 (06090401) | 34.24195 (06031716) |
| 3765520.0 | 23.67879 (09052707) | 24.61222 (06090401) | 26.61817 (06090401) | 30.49916 (06031716) | 33.99470 (06031716) |
| 3765500.0 | 21.48476 (09052707) | 23.38678 (06031716) | 27.21313 (06031716) | 30.51604 (06031716) | 33.26559 (06031716) |
| 3765480.0 | 20.50782 (06031716) | 23.99857 (06031716) | 27.24831 (06031716) | 30.09313 (06031716) | 32.11637 (06031716) |
| 3765460.0 | 21.17176 (06031716) | 24.29630 (06031716) | 27.07752 (06031716) | 29.27879 (06031716) | 30.77139 (06031716) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1005 ***
INCLUDING SOURCE(S): 1005 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 68.89965 (07042007) | 72.78001 (07042007) | 83.72497 (06090401) | 99.83541 (06090401) | 119.57924 (06090401) |
| 3765620.0 | 55.32132 (07042007) | 63.57114 (06090401) | 73.55956 (06090401) | 85.34185 (06090401) | 98.85832 (06090401) |
| 3765600.0 | 50.15449 (06090401) | 56.80683 (06090401) | 64.45185 (06090401) | 73.05696 (06090401) | 82.40435 (06090401) |
| 3765580.0 | 45.41169 (06090401) | 50.67793 (06090401) | 56.52193 (06090401) | 62.84485 (06090401) | 69.41915 (06090401) |
| 3765560.0 | 41.06962 (06090401) | 45.23745 (06090401) | 49.72300 (06090401) | 54.41737 (06090401) | 59.12398 (06090401) |
| 3765540.0 | 37.69323 (06031716) | 40.76050 (06031716) | 43.93284 (06090401) | 47.46278 (06090401) | 50.90254 (06090401) |
| 3765520.0 | 36.61810 (06031716) | 38.07971 (06031716) | 39.38051 (06031716) | 41.70069 (06090401) | 44.26593 (06090401) |
| 3765500.0 | 35.09351 (06031716) | 35.80413 (06031716) | 36.08911 (09010316) | 36.89778 (06090401) | 38.84210 (06090401) |
| 3765480.0 | 33.21009 (06031716) | 33.63685 (09010316) | 34.15672 (09010316) | 33.86113 (09010316) | 34.36391 (06090401) |
| 3765460.0 | 31.56940 (06031716) | 32.33739 (09010316) | 32.49444 (09010316) | 31.42738 (09010316) | 30.62568 (06090401) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1005 ***
INCLUDING SOURCE(S): 1005 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 45.84476 | (06090401) | 382071.00 | 3765565.00 | 45.84476 | (06090401) |
| 382071.00 | 3765565.00 | 45.84476 | (06090401) | 382071.00 | 3765565.00 | 45.84476 | (06090401) |
| 382071.00 | 3765565.00 | 45.84476 | (06090401) | 382071.00 | 3765565.00 | 45.84476 | (06090401) |
| 382071.00 | 3765565.00 | 45.84476 | (06090401) | 382051.00 | 3765530.00 | 36.63180 | (06031716) |
| 382051.00 | 3765530.00 | 36.63180 | (06031716) | 382051.00 | 3765530.00 | 36.63180 | (06031716) |
| 382051.00 | 3765530.00 | 36.63180 | (06031716) | 382051.00 | 3765530.00 | 36.63180 | (06031716) |
| 382051.00 | 3765530.00 | 36.63180 | (06031716) | 382051.00 | 3765530.00 | 36.63180 | (06031716) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1006 ***
INCLUDING SOURCE(S): 1006 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 12.91720 (09052707) | 13.43123 (06090401) | 14.17170 (06090401) | 14.95424 (06090401) | 17.01396 (06031716) |
| 3765620.0 | 12.18004 (06090401) | 12.81138 (06090401) | 13.47522 (06090401) | 15.32363 (06031716) | 17.17073 (06031716) |
| 3765600.0 | 11.64809 (06090401) | 12.21770 (06090401) | 13.85598 (06031716) | 15.53685 (06031716) | 17.13976 (06031716) |
| 3765580.0 | 11.13743 (06090401) | 12.57578 (06031716) | 14.10980 (06031716) | 15.58665 (06031716) | 16.93592 (06031716) |
| 3765560.0 | 11.45040 (06031716) | 12.85432 (06031716) | 14.21780 (06031716) | 15.48021 (06031716) | 16.57914 (06031716) |
| 3765540.0 | 11.74542 (06031716) | 13.00674 (06031716) | 14.18954 (06031716) | 15.23763 (06031716) | 16.09029 (06031716) |
| 3765520.0 | 11.92845 (06031716) | 13.03668 (06031716) | 14.03521 (06031716) | 14.87111 (06031716) | 15.49647 (06031716) |
| 3765500.0 | 12.00310 (06031716) | 12.95316 (06031716) | 13.76845 (06031716) | 14.40260 (06031716) | 14.81652 (06031716) |
| 3765480.0 | 11.97349 (06031716) | 12.76393 (06031716) | 13.40122 (06031716) | 13.84818 (06031716) | 14.07178 (06031716) |
| 3765460.0 | 11.84882 (06031716) | 12.48252 (06031716) | 12.95157 (06031716) | 13.22568 (06031716) | 13.40220 (09010316) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1006 ***
INCLUDING SOURCE(S): 1006 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 19.05285 (06031716) | 20.94655 (06031716) | 22.58345 (06031716) | 23.84317 (06031716) | 24.61573 (06031716) |
| 3765620.0 | 18.91181 (06031716) | 20.44815 (06031716) | 21.68018 (06031716) | 22.51142 (06031716) | 23.00680 (09010316) |
| 3765600.0 | 18.57951 (06031716) | 19.77326 (06031716) | 20.63039 (06031716) | 21.07963 (06031716) | 21.68034 (09010316) |
| 3765580.0 | 18.08039 (06031716) | 18.95087 (06031716) | 19.47496 (06031716) | 19.91742 (09010316) | 20.31251 (09010316) |
| 3765560.0 | 17.44511 (06031716) | 18.01721 (06031716) | 18.30528 (09010316) | 18.82343 (09010316) | 18.93881 (09010316) |
| 3765540.0 | 16.69582 (06031716) | 17.00712 (06031716) | 17.43542 (09010316) | 17.69647 (09010316) | 17.58153 (09010316) |
| 3765520.0 | 15.86595 (06031716) | 16.15039 (09010316) | 16.51932 (09010316) | 16.56157 (09010316) | 16.25820 (09010316) |
| 3765500.0 | 14.97632 (06031716) | 15.41324 (09010316) | 15.57897 (09010316) | 15.43729 (09010316) | 14.98337 (09010316) |
| 3765480.0 | 14.37490 (09010316) | 14.63842 (09010316) | 14.63019 (09010316) | 14.33798 (09010316) | 13.76395 (09010316) |
| 3765460.0 | 13.74241 (09010316) | 13.84246 (09010316) | 13.68691 (09010316) | 13.27157 (09010316) | 12.61052 (09010316) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1006 ***
INCLUDING SOURCE(S): 1006 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 18.18425 | (06031716) | 382071.00 | 3765565.00 | 18.18425 | (06031716) |
| 382071.00 | 3765565.00 | 18.18425 | (06031716) | 382071.00 | 3765565.00 | 18.18425 | (06031716) |
| 382071.00 | 3765565.00 | 18.18425 | (06031716) | 382071.00 | 3765565.00 | 18.18425 | (06031716) |
| 382071.00 | 3765565.00 | 18.18425 | (06031716) | 382051.00 | 3765530.00 | 16.23431 | (06031716) |
| 382051.00 | 3765530.00 | 16.23431 | (06031716) | 382051.00 | 3765530.00 | 16.23431 | (06031716) |
| 382051.00 | 3765530.00 | 16.23431 | (06031716) | 382051.00 | 3765530.00 | 16.23431 | (06031716) |
| 382051.00 | 3765530.00 | 16.23431 | (06031716) | 382051.00 | 3765530.00 | 16.23431 | (06031716) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1007 ***
INCLUDING SOURCE(S): 1007 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|

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3765640.0 |   10.84746 (06031716)   11.15391 (06031716)   11.30080 (06031716)   11.50235 (09010316)   11.74494 (09010316)
3765620.0 |   10.51430 (06031716)   10.69979 (06031716)   10.78993 (09010316)   11.08232 (09010316)   11.20736 (09010316)
3765600.0 |   10.13185 (06031716)   10.20740 (06031716)   10.44823 (09010316)   10.63110 (09010316)   10.65288 (09010316)
3765580.0 |    9.70965 (06031716)    9.84455 (09010316)   10.07376 (09010316)   10.15844 (09010316)   10.08902 (09010316)
3765560.0 |    9.27014 (09010316)    9.53609 (09010316)    9.67306 (09010316)    9.66998 (09010316)    9.52287 (09010316)
3765540.0 |    9.02003 (09010316)    9.19997 (09010316)    9.25372 (09010316)    9.17453 (09010316)    8.96013 (09010316)
3765520.0 |    8.74041 (09010316)    8.84164 (09010316)    8.82156 (09010316)    8.67593 (09010316)    8.40746 (09010316)
3765500.0 |    8.43722 (09010316)    8.46762 (09010316)    8.38240 (09010316)    8.18069 (09010316)    7.86773 (09010316)
3765480.0 |    8.11487 (09010316)    8.08202 (09010316)    7.94036 (09010316)    7.69237 (09010316)    7.34435 (09010316)
3765460.0 |    7.77881 (09010316)    7.69028 (09010316)    7.50073 (09010316)    7.21455 (09010316)    6.84019 (09010316)
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                  ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                   ***      15:31:34
                                                                                   PAGE 140
**MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  1007     ***
                       INCLUDING SOURCE(S):     1007       ,

                        *** NETWORK ID: C1001    ;  NETWORK TYPE: GRIDCART ***

                           ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

 Y-COORD  |                              X-COORD (METERS)
 (METERS) |     382054.00          382074.00          382094.00          382114.00          382134.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3765640.0 |   11.79999 (09010316)   11.65546 (09010316)   11.31183 (09010316)   10.77822 (09010316)   10.07503 (09010316)
3765620.0 |   11.15318 (09010316)   10.91452 (09010316)   10.49662 (09010316)    9.91359 (09010316)    9.18722 (09010316)
3765600.0 |   10.50501 (09010316)   10.18960 (09010316)    9.71385 (09010316)    9.09617 (09010316)    8.36712 (06090401)
3765580.0 |    9.86218 (09010316)    9.48469 (09010316)    8.96729 (09010316)    8.32929 (09010316)    7.95626 (06090401)
3765560.0 |    9.23173 (09010316)    8.80505 (09010316)    8.25851 (09010316)    7.61217 (09010316)    7.57624 (06090401)
3765540.0 |    8.61668 (09010316)    8.15499 (09010316)    7.59014 (09010316)    7.11494 (06090401)    7.22407 (06090401)
3765520.0 |    8.02311 (09010316)    7.53551 (09010316)    6.96240 (09010316)    6.79787 (06090401)    6.89709 (06090401)
3765500.0 |    7.45263 (09010316)    6.94933 (09010316)    6.40813 (06090401)    6.50299 (06090401)    6.59346 (06090401)
3765480.0 |    6.90747 (09010316)    6.39675 (09010316)    6.14182 (06090401)    6.22864 (06090401)    6.30993 (06090401)
3765460.0 |    6.38985 (09010316)    5.87836 (09010316)    5.89302 (06090401)    5.97189 (06090401)    6.04638 (06090401)
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                  ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                   ***      15:31:34
                                                                                   PAGE 141
**MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  1007     ***
                       INCLUDING SOURCE(S):     1007       ,

                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                           ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

   X-COORD (M)  Y-COORD (M)       CONC     (YYMMDDHH)           X-COORD (M)  Y-COORD (M)       CONC     (YYMMDDHH)
```

| | | | | | |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 9.04336 (09010316) | 382071.00 | 3765565.00 | 9.04336 (09010316) |
| 382071.00 | 3765565.00 | 9.04336 (09010316) | 382071.00 | 3765565.00 | 9.04336 (09010316) |
| 382071.00 | 3765565.00 | 9.04336 (09010316) | 382071.00 | 3765565.00 | 9.04336 (09010316) |
| 382071.00 | 3765565.00 | 9.04336 (09010316) | 382051.00 | 3765530.00 | 8.37911 (09010316) |
| 382051.00 | 3765530.00 | 8.37911 (09010316) | 382051.00 | 3765530.00 | 8.37911 (09010316) |
| 382051.00 | 3765530.00 | 8.37911 (09010316) | 382051.00 | 3765530.00 | 8.37911 (09010316) |
| 382051.00 | 3765530.00 | 8.37911 (09010316) | 382051.00 | 3765530.00 | 8.37911 (09010316) |

*** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
PAGE 142
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1008 ***
INCLUDING SOURCE(S): 1008 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 44.17540 (09052507) | 50.55473 (09052507) | 56.14905 (09052507) | 60.19942 (09052507) | 67.92187 (06090401) |
| 3765620.0 | 46.08467 (09012717) | 51.67055 (06090401) | 59.19026 (06090401) | 68.12599 (06090401) | 78.63685 (06090401) |
| 3765600.0 | 51.24711 (09012717) | 56.32474 (06090401) | 65.56592 (06090401) | 76.99216 (06090506) | 91.09304 (06090401) |
| 3765580.0 | 54.67645 (09012717) | 60.85638 (06090401) | 71.99736 (06090401) | 86.34297 (06090401) | 105.01439 (06090401) |
| 3765560.0 | 55.44687 (09012717) | 64.95315 (06090401) | 78.01210 (06090401) | 95.49794 (06090401) | 119.48078 (06090401) |
| 3765540.0 | 57.21775 (06090401) | 68.22439 (06090401) | 82.96289 (06090401) | 103.34140 (06090401) | 132.66914 (06090401) |
| 3765520.0 | 68.83232 (07042007) | 80.17571 (07042007) | 94.24032 (07042007) | 110.42457 (07042007) | 0.00000 (00000000) |
| 3765500.0 | 79.65870 (07042007) | 92.25797 (07042007) | 107.25420 (07042007) | 123.99151 (07042007) | 0.00000 (00000000) |
| 3765480.0 | 85.61108 (07042007) | 98.29950 (07042007) | 112.52045 (07042007) | 129.78504 (07042007) | 0.00000 (00000000) |
| 3765460.0 | 86.67106 (07042007) | 98.49385 (07042007) | 111.57265 (07042007) | 126.52077 (07042007) | 144.94547 (07042007) |

*** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
PAGE 143
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1008 ***
INCLUDING SOURCE(S): 1008 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| 3765640.0 \| | 76.44925 (06090401) | 85.30778 (06090401) | 93.77232 (06090401) | 100.80452 (06090401) | 105.23576 (06090401) |
| 3765620.0 \| | 90.70129 (06090401) | 103.94576 (06090401) | 117.36015 (06090401) | 129.12573 (06090401) | 0.00000 (00000000) |
| 3765600.0 \| | 108.28512 (06090401) | 128.53860 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765580.0 \| | 129.40200 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765560.0 \| | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765540.0 \| | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765520.0 \| | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765500.0 \| | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765480.0 \| | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765460.0 \| | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
PAGE 144

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1008 ***
INCLUDING SOURCE(S): 1008 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 0.00000 | (00000000) | 382071.00 | 3765565.00 | 0.00000 | (00000000) |
| 382071.00 | 3765565.00 | 0.00000 | (00000000) | 382071.00 | 3765565.00 | 0.00000 | (00000000) |
| 382071.00 | 3765565.00 | 0.00000 | (00000000) | 382071.00 | 3765565.00 | 0.00000 | (00000000) |
| 382071.00 | 3765565.00 | 0.00000 | (00000000) | 382051.00 | 3765530.00 | 0.00000 | (00000000) |
| 382051.00 | 3765530.00 | 0.00000 | (00000000) | 382051.00 | 3765530.00 | 0.00000 | (00000000) |
| 382051.00 | 3765530.00 | 0.00000 | (00000000) | 382051.00 | 3765530.00 | 0.00000 | (00000000) |
| 382051.00 | 3765530.00 | 0.00000 | (00000000) | 382051.00 | 3765530.00 | 0.00000 | (00000000) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1009 ***
INCLUDING SOURCE(S): 1009 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD \| (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 \| | 50.66488 (07042007) | 54.23806 (07042007) | 57.81870 (07042007) | 61.26418 (07042007) | 65.18221 (07042007) |
| 3765620.0 \| | 46.35309 (07042007) | 48.89262 (07042007) | 51.11864 (07042007) | 53.57826 (07042007) | 55.78117 (07042007) |
| 3765600.0 \| | 40.65596 (07042007) | 42.08242 (07042007) | 43.33204 (07042007) | 44.50614 (07042007) | 45.78358 (07042007) |

| | | | | | |
|---|---|---|---|---|---|
| 3765580.0 | 34.09189 (07042007) | 34.71840 (07042007) | 35.19250 (07042007) | 35.58147 (07042007) | 38.54745 (06090401) |
| 3765560.0 | 27.34248 (07042007) | 28.59026 (09042707) | 29.70810 (09042707) | 32.26227 (06090401) | 35.61380 (06090401) |
| 3765540.0 | 25.63668 (09042707) | 26.47811 (09042707) | 27.89089 (09052707) | 30.00138 (06090401) | 32.83621 (06090401) |
| 3765520.0 | 23.42388 (09042707) | 24.65149 (09052707) | 25.67608 (06090401) | 27.85845 (06090401) | 30.72209 (06031716) |
| 3765500.0 | 21.87247 (09052707) | 22.59428 (09052707) | 23.98347 (06090401) | 27.31201 (06031716) | 30.84472 (06031716) |
| 3765480.0 | 19.88454 (09052707) | 20.90580 (06090401) | 24.20612 (06031716) | 27.62995 (06031716) | 30.51815 (06031716) |
| 3765460.0 | 18.41547 (06090401) | 21.45903 (06031716) | 24.66211 (06031716) | 27.54339 (06031716) | 29.92209 (06031716) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1009 ***
INCLUDING SOURCE(S): 1009 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 69.79291 (07042007) | 74.20488 (07042007) | 79.58111 (07042007) | 91.04254 (06090401) | 110.20585 (06090401) |
| 3765620.0 | 58.27744 (07042007) | 60.81301 (07042007) | 68.33009 (06090401) | 79.90186 (06090401) | 93.84573 (06090401) |
| 3765600.0 | 47.01337 (06090401) | 53.43315 (06090401) | 60.99358 (06090401) | 69.81312 (06090401) | 79.90455 (06090401) |
| 3765580.0 | 43.10109 (06090401) | 48.33128 (06090506) | 54.29515 (06090401) | 60.99523 (06090401) | 68.33453 (06090401) |
| 3765560.0 | 39.39751 (06090401) | 43.63800 (06090401) | 48.33351 (06090401) | 53.43760 (06090401) | 58.82892 (06090401) |
| 3765540.0 | 35.96922 (06090401) | 39.39988 (06090401) | 43.10466 (06090401) | 47.01953 (06090401) | 51.03084 (06090401) |
| 3765520.0 | 34.33975 (06031716) | 37.05611 (06031716) | 39.33239 (06031716) | 41.58442 (06090401) | 44.61113 (06090401) |
| 3765500.0 | 33.72374 (06031716) | 35.65551 (06031716) | 36.75575 (06031716) | 37.70617 (09010316) | 39.29347 (06090401) |
| 3765480.0 | 32.66969 (06031716) | 34.10168 (06031716) | 34.77172 (06031716) | 35.70934 (09010316) | 35.23816 (09010316) |
| 3765460.0 | 31.74687 (06031716) | 32.72987 (06031716) | 33.70336 (09010316) | 33.79038 (09010316) | 32.98055 (09010316) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1009 ***
INCLUDING SOURCE(S): 1009 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 44.06553 | (06090401) | 382071.00 | 3765565.00 | 44.06553 | (06090401) |
| 382071.00 | 3765565.00 | 44.06553 | (06090401) | 382071.00 | 3765565.00 | 44.06553 | (06090401) |
| 382071.00 | 3765565.00 | 44.06553 | (06090401) | 382071.00 | 3765565.00 | 44.06553 | (06090401) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 44.06553 | (06090401) | 382051.00 | 3765530.00 | 33.92298 | (06090401) |
| 382051.00 | 3765530.00 | 33.92298 | (06090401) | 382051.00 | 3765530.00 | 33.92298 | (06090401) |
| 382051.00 | 3765530.00 | 33.92298 | (06090401) | 382051.00 | 3765530.00 | 33.92298 | (06090401) |
| 382051.00 | 3765530.00 | 33.92298 | (06090401) | 382051.00 | 3765530.00 | 33.92298 | (06090401) |

♀*** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1010 ***
INCLUDING SOURCE(S): 1010 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 13.05971 (09052707) | 13.38212 (09052707) | 13.91510 (06090401) | 14.69821 (06090401) | 15.53032 (06090401) |
| 3765620.0 | 12.10971 (09052707) | 12.59466 (06090401) | 13.25914 (06090401) | 13.96241 (06090401) | 15.88412 (06031716) |
| 3765600.0 | 11.46323 (06090401) | 12.03347 (06090401) | 12.63274 (06090401) | 14.34390 (06031716) | 16.08122 (06031716) |
| 3765580.0 | 10.97895 (06090401) | 11.49619 (06090401) | 13.00309 (06031716) | 14.58611 (06031716) | 16.10476 (06031716) |
| 3765560.0 | 10.51274 (06090401) | 11.82696 (06031716) | 13.27396 (06031716) | 14.67447 (06031716) | 15.96785 (06031716) |
| 3765540.0 | 10.79083 (06031716) | 12.11745 (06031716) | 13.41273 (06031716) | 14.62284 (06031716) | 15.68597 (06031716) |
| 3765520.0 | 11.09121 (06031716) | 12.29094 (06031716) | 13.42457 (06031716) | 14.43883 (06031716) | 15.28212 (06031716) |
| 3765500.0 | 11.28956 (06031716) | 12.35209 (06031716) | 13.31866 (06031716) | 14.14047 (06031716) | 14.77259 (06031716) |
| 3765480.0 | 11.38627 (06031716) | 12.30493 (06031716) | 13.10366 (06031716) | 13.74107 (06031716) | 14.17716 (06031716) |
| 3765460.0 | 11.38703 (06031716) | 12.15963 (06031716) | 12.79480 (06031716) | 13.25681 (06031716) | 13.51492 (06031716) |

♀*** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
PAGE 149
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1010 ***
INCLUDING SOURCE(S): 1010 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 17.66495 (06031716) | 19.77357 (06031716) | 21.72553 (06031716) | 23.39657 (06031716) | 24.66164 (06031716) |
| 3765620.0 | 17.79517 (06031716) | 19.58722 (06031716) | 21.15911 (06031716) | 22.40431 (06031716) | 23.21651 (06031716) |
| 3765600.0 | 17.72898 (06031716) | 19.20425 (06031716) | 20.41003 (06031716) | 21.26055 (06031716) | 21.68135 (06031716) |
| 3765580.0 | 17.48315 (06031716) | 18.64767 (06031716) | 19.51571 (06031716) | 20.01644 (06031716) | 20.51285 (09010316) |

| | | | | | |
|---|---|---|---|---|---|
| 3765560.0 | 17.08239 (06031716) | 17.94960 (06031716) | 18.50882 (06031716) | 18.85226 (09010316) | 19.32854 (09010316) |
| 3765540.0 | 16.54495 (06031716) | 17.14292 (06031716) | 17.42692 (06031716) | 17.90707 (09010316) | 18.12197 (09010316) |
| 3765520.0 | 15.90167 (06031716) | 16.25163 (06031716) | 16.58657 (09010316) | 16.92193 (09010316) | 16.91466 (09010316) |
| 3765500.0 | 15.17239 (06031716) | 15.36669 (09010316) | 15.79138 (09010316) | 15.91794 (09010316) | 15.72542 (09010316) |
| 3765480.0 | 14.37979 (06031716) | 14.73002 (09010316) | 14.96308 (09010316) | 14.91234 (09010316) | 14.56518 (09010316) |
| 3765460.0 | 13.73601 (09010316) | 14.05182 (09010316) | 14.11740 (09010316) | 13.91599 (09010316) | 13.44871 (09010316) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1010 ***
INCLUDING SOURCE(S): 1010 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 18.01357 | (06031716) | 382071.00 | 3765565.00 | 18.01357 | (06031716) |
| 382071.00 | 3765565.00 | 18.01357 | (06031716) | 382071.00 | 3765565.00 | 18.01357 | (06031716) |
| 382071.00 | 3765565.00 | 18.01357 | (06031716) | 382071.00 | 3765565.00 | 18.01357 | (06031716) |
| 382071.00 | 3765565.00 | 18.01357 | (06031716) | 382051.00 | 3765530.00 | 16.14005 | (06031716) |
| 382051.00 | 3765530.00 | 16.14005 | (06031716) | 382051.00 | 3765530.00 | 16.14005 | (06031716) |
| 382051.00 | 3765530.00 | 16.14005 | (06031716) | 382051.00 | 3765530.00 | 16.14005 | (06031716) |
| 382051.00 | 3765530.00 | 16.14005 | (06031716) | 382051.00 | 3765530.00 | 16.14005 | (06031716) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1011 ***
INCLUDING SOURCE(S): 1011 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 10.52470 (06031716) | 11.00703 (06031716) | 11.34930 (06031716) | 11.52960 (06031716) | 11.69674 (09010316) |
| 3765620.0 | 10.32395 (06031716) | 10.68412 (06031716) | 10.90071 (06031716) | 10.95886 (06031716) | 11.27858 (09010316) |
| 3765600.0 | 10.06315 (06031716) | 10.30843 (06031716) | 10.41114 (06031716) | 10.61810 (09010316) | 10.82797 (09010316) |
| 3765580.0 | 9.75068 (06031716) | 9.89052 (06031716) | 9.99106 (09010316) | 10.24565 (09010316) | 10.35293 (09010316) |
| 3765560.0 | 9.39504 (06031716) | 9.43941 (06031716) | 9.68600 (09010316) | 9.84463 (09010316) | 9.86128 (09010316) |
| 3765540.0 | 9.00543 (06031716) | 9.15057 (09010316) | 9.35153 (09010316) | 9.42415 (09010316) | 9.35962 (09010316) |
| 3765520.0 | 8.63913 (09010316) | 8.87374 (09010316) | 8.99356 (09010316) | 8.98870 (09010316) | 8.85568 (09010316) |

| | | | | | |
|---|---|---|---|---|---|
| 3765500.0 | 8.41349 (09010316) | 8.57214 (09010316) | 8.61824 (09010316) | 8.54548 (09010316) | 8.35345 (09010316) |
| 3765480.0 | 8.16109 (09010316) | 8.25002 (09010316) | 8.23015 (09010316) | 8.09888 (09010316) | 7.85749 (09010316) |
| 3765460.0 | 7.88730 (09010316) | 7.91303 (09010316) | 7.83514 (09010316) | 7.65339 (09010316) | 7.37181 (09010316) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1011 ***
INCLUDING SOURCE(S): 1011 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 11.97216 (09010316) | 12.05445 (09010316) | 11.93245 (09010316) | 11.60320 (09010316) | 11.07555 (09010316) |
| 3765620.0 | 11.43155 (09010316) | 11.39998 (09010316) | 11.17846 (09010316) | 10.77052 (09010316) | 10.18833 (09010316) |
| 3765600.0 | 10.87205 (09010316) | 10.74316 (09010316) | 10.43891 (09010316) | 9.96871 (09010316) | 9.35010 (09010316) |
| 3765580.0 | 10.30156 (09010316) | 10.08979 (09010316) | 9.71998 (09010316) | 9.20392 (09010316) | 8.56091 (09010316) |
| 3765560.0 | 9.72847 (09010316) | 9.44700 (09010316) | 9.02544 (09010316) | 8.47776 (09010316) | 7.82325 (09010316) |
| 3765540.0 | 9.15718 (09010316) | 8.82098 (09010316) | 8.36007 (09010316) | 7.79165 (09010316) | 7.26000 (06090401) |
| 3765520.0 | 8.59531 (09010316) | 8.21444 (09010316) | 7.72598 (09010316) | 7.14738 (09010316) | 6.93338 (06090401) |
| 3765500.0 | 8.04586 (09010316) | 7.63182 (09010316) | 7.12561 (09010316) | 6.54525 (09010316) | 6.62977 (06090401) |
| 3765480.0 | 7.51246 (09010316) | 7.07491 (09010316) | 6.55966 (09010316) | 6.25678 (06090401) | 6.34600 (06090401) |
| 3765460.0 | 6.99867 (09010316) | 6.54572 (09010316) | 6.02844 (09010316) | 6.00026 (06090401) | 6.08201 (06090401) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1011 ***
INCLUDING SOURCE(S): 1011 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 9.65592 | (09010316) | 382071.00 | 3765565.00 | 9.65592 | (09010316) |
| 382071.00 | 3765565.00 | 9.65592 | (09010316) | 382071.00 | 3765565.00 | 9.65592 | (09010316) |
| 382071.00 | 3765565.00 | 9.65592 | (09010316) | 382071.00 | 3765565.00 | 9.65592 | (09010316) |
| 382071.00 | 3765565.00 | 9.65592 | (09010316) | 382051.00 | 3765530.00 | 8.91792 | (09010316) |
| 382051.00 | 3765530.00 | 8.91792 | (09010316) | 382051.00 | 3765530.00 | 8.91792 | (09010316) |
| 382051.00 | 3765530.00 | 8.91792 | (09010316) | 382051.00 | 3765530.00 | 8.91792 | (09010316) |
| 382051.00 | 3765530.00 | 8.91792 | (09010316) | 382051.00 | 3765530.00 | 8.91792 | (09010316) |

**MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1012 ***
INCLUDING SOURCE(S): 1012 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 20.28151 (06090401) | 20.91456 (11060807) | 22.18403 (11013010) | 23.90273 (10100517) | 27.31335 (10100517) |
| 3765620.0 | 22.21282 (06090401) | 22.72130 (06090401) | 23.84673 (11013010) | 26.13716 (10100517) | 29.83549 (10100517) |
| 3765600.0 | 24.44810 (06090401) | 25.07549 (06090401) | 25.71464 (11013010) | 28.69100 (10100517) | 32.71728 (10100517) |
| 3765580.0 | 27.05221 (06090401) | 27.83893 (06090401) | 28.45939 (06090401) | 31.64043 (10100517) | 36.03192 (10100517) |
| 3765560.0 | 30.10752 (06090401) | 31.10697 (06090401) | 31.90175 (06090401) | 35.06209 (10100517) | 39.87273 (10100517) |
| 3765540.0 | 33.72925 (06090401) | 35.01895 (06090401) | 36.05518 (06090401) | 39.08536 (10100517) | 44.35479 (10100517) |
| 3765520.0 | 38.05488 (06090401) | 39.74651 (06090401) | 41.12858 (06090401) | 43.84250 (10100517) | 49.65704 (10100517) |
| 3765500.0 | 43.28121 (06090401) | 45.54957 (06090401) | 47.42747 (06090401) | 49.55382 (10100517) | 55.97718 (10100517) |
| 3765480.0 | 49.64300 (06090401) | 52.74568 (06090401) | 55.35880 (06090401) | 57.26898 (06090401) | 63.60078 (10100517) |
| 3765460.0 | 57.48717 (06090401) | 61.83211 (06090401) | 65.59032 (06090401) | 68.38794 (06090401) | 72.93515 (10100517) |



**MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1012 ***
INCLUDING SOURCE(S): 1012 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 30.17952 (10100517) | 32.25656 (10100517) | 33.40142 (07052117) | 33.79320 (07052117) | 33.12714 (07052117) |
| 3765620.0 | 32.88478 (10100517) | 35.01561 (10100517) | 36.12623 (07052117) | 36.30989 (07052117) | 35.31569 (07052117) |
| 3765600.0 | 35.96176 (10100517) | 38.13630 (10100517) | 39.17899 (07052117) | 39.08984 (07052117) | 37.70491 (07052117) |
| 3765580.0 | 39.48336 (10100517) | 41.67946 (10100517) | 42.61517 (07052117) | 42.18352 (07052117) | 40.30614 (07052117) |
| 3765560.0 | 43.55097 (10100517) | 45.73028 (10100517) | 46.49142 (07052117) | 45.63042 (07052117) | 43.15743 (07052117) |
| 3765540.0 | 48.26323 (10100517) | 50.40532 (10100517) | 50.89830 (07052117) | 49.47954 (07052117) | 46.29232 (07052117) |
| 3765520.0 | 53.80085 (10100517) | 55.82011 (10100517) | 55.93105 (07052117) | 53.81095 (07052117) | 49.75140 (07052117) |
| 3765500.0 | 60.34824 (10100517) | 62.17837 (07052117) | 61.73570 (07052117) | 58.72293 (07052117) | 53.59359 (07052117) |

| | | | | | |
|---|---|---|---|---|---|
| 3765480.0 \| | 68.17168 (10100517) | 69.70127 (07052117) | 68.48601 (07052117) | 64.34475 (07052117) | 57.86798 (07052117) |
| 3765460.0 \| | 77.67225 (10100517) | 78.68925 (10100517) | 76.42282 (07052117) | 70.81197 (07052117) | 62.70103 (07052117) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1012 ***
INCLUDING SOURCE(S): 1012 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 44.44051 | (10100517) | 382071.00 | 3765565.00 | 44.44051 | (10100517) |
| 382071.00 | 3765565.00 | 44.44051 | (10100517) | 382071.00 | 3765565.00 | 44.44051 | (10100517) |
| 382071.00 | 3765565.00 | 44.44051 | (10100517) | 382071.00 | 3765565.00 | 44.44051 | (10100517) |
| 382071.00 | 3765565.00 | 44.44051 | (10100517) | 382051.00 | 3765530.00 | 50.42674 | (10100517) |
| 382051.00 | 3765530.00 | 50.42674 | (10100517) | 382051.00 | 3765530.00 | 50.42674 | (10100517) |
| 382051.00 | 3765530.00 | 50.42674 | (10100517) | 382051.00 | 3765530.00 | 50.42674 | (10100517) |
| 382051.00 | 3765530.00 | 50.42674 | (10100517) | 382051.00 | 3765530.00 | 50.42674 | (10100517) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1013 ***
INCLUDING SOURCE(S): 1013 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD \| (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 \| | 15.08148 (10100517) | 16.26201 (10100517) | 17.14486 (10100517) | 17.72669 (07052117) | 18.08416 (07052117) |
| 3765620.0 \| | 16.04469 (10100517) | 17.26540 (10100517) | 18.15229 (10100517) | 18.73701 (07052117) | 19.03324 (07052117) |
| 3765600.0 \| | 17.09448 (10100517) | 18.35380 (10100517) | 19.24055 (10100517) | 19.82125 (07052117) | 20.04594 (07052117) |
| 3765580.0 \| | 18.24137 (10100517) | 19.53895 (10100517) | 20.41903 (10100517) | 20.99016 (07052117) | 21.12593 (07052117) |
| 3765560.0 \| | 19.49723 (10100517) | 20.83120 (10100517) | 21.69672 (10100517) | 22.24606 (07052117) | 22.27832 (07052117) |
| 3765540.0 \| | 20.87842 (10100517) | 22.24618 (10100517) | 23.09547 (07052117) | 23.60517 (07052117) | 23.50671 (07052117) |
| 3765520.0 \| | 22.39909 (10100517) | 23.79638 (10100517) | 24.65105 (07052117) | 25.06889 (07052117) | 24.82450 (07052117) |
| 3765500.0 \| | 24.08124 (10100517) | 25.50418 (10100517) | 26.34996 (07052117) | 26.65501 (07052117) | 26.23288 (07052117) |
| 3765480.0 \| | 25.94258 (10100517) | 27.38318 (10100517) | 28.20261 (07052117) | 28.37162 (07052117) | 27.73846 (07052117) |
| 3765460.0 \| | 28.01453 (10100517) | 29.46243 (10100517) | 30.23568 (07052117) | 30.23150 (07052117) | 29.35072 (07052117) |

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1013 ***
INCLUDING SOURCE(S): 1013 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 18.04957 (07052117) | 17.62993 (07052117) | 16.86086 (07052117) | 15.79459 (07052117) | 14.49848 (07052117) |
| 3765620.0 | 18.90425 (07052117) | 18.36529 (07052117) | 17.46008 (07052117) | 16.25173 (07052117) | 14.81474 (07052117) |
| 3765600.0 | 19.80716 (07052117) | 19.13402 (07052117) | 18.07540 (07052117) | 16.70849 (07052117) | 15.12171 (07052117) |
| 3765580.0 | 20.75966 (07052117) | 19.93287 (07052117) | 18.70619 (07052117) | 17.16675 (07052117) | 15.41372 (07052117) |
| 3765560.0 | 21.76761 (07052117) | 20.76317 (07052117) | 19.34794 (07052117) | 17.62136 (07052117) | 15.69084 (07052117) |
| 3765540.0 | 22.82692 (07052117) | 21.62841 (07052117) | 20.00155 (07052117) | 18.06739 (07052117) | 15.94965 (07052117) |
| 3765520.0 | 23.94919 (07052117) | 22.52294 (07052117) | 20.66284 (07052117) | 18.50404 (07052117) | 16.18631 (07052117) |
| 3765500.0 | 25.13150 (07052117) | 23.45171 (07052117) | 21.33259 (07052117) | 18.92909 (07052117) | 16.39814 (07052117) |
| 3765480.0 | 26.37587 (07052117) | 24.41171 (07052117) | 22.00753 (07052117) | 19.33993 (07052117) | 16.57737 (07052117) |
| 3765460.0 | 27.69153 (07052117) | 25.40567 (07052117) | 22.68539 (07052117) | 19.72748 (07052117) | 17.25743 (07032617) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1013 ***
INCLUDING SOURCE(S): 1013 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 20.72537 | (07052117) | 382071.00 | 3765565.00 | 20.72537 | (07052117) |
| 382071.00 | 3765565.00 | 20.72537 | (07052117) | 382071.00 | 3765565.00 | 20.72537 | (07052117) |
| 382071.00 | 3765565.00 | 20.72537 | (07052117) | 382071.00 | 3765565.00 | 20.72537 | (07052117) |
| 382071.00 | 3765565.00 | 20.72537 | (07052117) | 382051.00 | 3765530.00 | 23.53180 | (07052117) |
| 382051.00 | 3765530.00 | 23.53180 | (07052117) | 382051.00 | 3765530.00 | 23.53180 | (07052117) |
| 382051.00 | 3765530.00 | 23.53180 | (07052117) | 382051.00 | 3765530.00 | 23.53180 | (07052117) |
| 382051.00 | 3765530.00 | 23.53180 | (07052117) | 382051.00 | 3765530.00 | 23.53180 | (07052117) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1014 ***
INCLUDING SOURCE(S): 1014 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 11.09522 (07052117) | 11.31110 (07052117) | 11.34370 (07052117) | 11.19396 (07052117) | 10.87237 (07052117) |
| 3765620.0 | 11.58104 (07052117) | 11.76991 (07052117) | 11.76280 (07052117) | 11.56402 (07052117) | 11.18521 (07052117) |
| 3765600.0 | 12.09258 (07052117) | 12.24964 (07052117) | 12.19813 (07052117) | 11.94410 (07052117) | 11.50364 (07052117) |
| 3765580.0 | 12.63095 (07052117) | 12.75162 (07052117) | 12.65011 (07052117) | 12.33541 (07052117) | 11.82665 (07052117) |
| 3765560.0 | 13.19724 (07052117) | 13.27590 (07052117) | 13.11811 (07052117) | 12.73574 (07052117) | 12.15352 (07052117) |
| 3765540.0 | 13.79392 (07052117) | 13.82430 (07052117) | 13.60331 (07052117) | 13.14730 (07052117) | 12.48280 (07052117) |
| 3765520.0 | 14.42171 (07052117) | 14.39669 (07052117) | 14.10536 (07052117) | 13.56690 (07052117) | 12.81578 (07052117) |
| 3765500.0 | 15.08335 (07052117) | 14.99555 (07052117) | 14.62486 (07052117) | 13.99615 (07052117) | 13.14962 (07052117) |
| 3765480.0 | 15.77891 (07052117) | 15.61942 (07052117) | 15.15990 (07052117) | 14.43304 (07052117) | 13.48295 (07052117) |
| 3765460.0 | 16.51190 (07052117) | 16.27074 (07052117) | 15.71265 (07052117) | 14.87650 (07052117) | 13.81479 (07052117) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1014 ***
INCLUDING SOURCE(S): 1014 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 10.39638 (07052117) | 9.78881 (07052117) | 9.07841 (07052117) | 8.29497 (07052117) | 7.46896 (07052117) |
| 3765620.0 | 10.64776 (07052117) | 9.97807 (07052117) | 9.20748 (07052117) | 8.36873 (07052117) | 7.49353 (07052117) |
| 3765600.0 | 10.89980 (07052117) | 10.16426 (07052117) | 9.32978 (07052117) | 8.43272 (07052117) | 7.50784 (07052117) |
| 3765580.0 | 11.15119 (07052117) | 10.34506 (07052117) | 9.44426 (07052117) | 8.48706 (07052117) | 7.50998 (07052117) |
| 3765560.0 | 11.40194 (07052117) | 10.51967 (07052117) | 9.54884 (07052117) | 8.52992 (07052117) | 7.50009 (07052117) |
| 3765540.0 | 11.64882 (07052117) | 10.68787 (07052117) | 9.64315 (07052117) | 8.55970 (07052117) | 7.75665 (11050807) |
| 3765520.0 | 11.89327 (07052117) | 10.84667 (07052117) | 9.72536 (07052117) | 8.57610 (07052117) | 8.07677 (11050807) |
| 3765500.0 | 12.13219 (07052117) | 10.99618 (07052117) | 9.79505 (07052117) | 8.57842 (07052117) | 8.38546 (11050807) |
| 3765480.0 | 12.36391 (07052117) | 11.13419 (07052117) | 9.85076 (07052117) | 8.85050 (11050807) | 8.67757 (11050807) |
| 3765460.0 | 12.58841 (07052117) | 11.26000 (07052117) | 9.89131 (07052117) | 9.21419 (11050807) | 8.95024 (11050807) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1014 ***
INCLUDING SOURCE(S): 1014 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 10.61310 | (07052117) | 382071.00 | 3765565.00 | 10.61310 | (07052117) |
| 382071.00 | 3765565.00 | 10.61310 | (07052117) | 382071.00 | 3765565.00 | 10.61310 | (07052117) |
| 382071.00 | 3765565.00 | 10.61310 | (07052117) | 382071.00 | 3765565.00 | 10.61310 | (07052117) |
| 382071.00 | 3765565.00 | 10.61310 | (07052117) | 382051.00 | 3765530.00 | 11.91204 | (07052117) |
| 382051.00 | 3765530.00 | 11.91204 | (07052117) | 382051.00 | 3765530.00 | 11.91204 | (07052117) |
| 382051.00 | 3765530.00 | 11.91204 | (07052117) | 382051.00 | 3765530.00 | 11.91204 | (07052117) |
| 382051.00 | 3765530.00 | 11.91204 | (07052117) | 382051.00 | 3765530.00 | 11.91204 | (07052117) |





**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3001 ***
INCLUDING SOURCE(S): 3001 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 85.62078 (07042007) | 95.63556 (07042007) | 106.10368 (07042007) | 116.34255 (07042007) | 128.31049 (07042007) |
| 3765620.0 | 80.50385 (07042007) | 87.59070 (07042007) | 93.67801 (07042007) | 100.41072 (07042007) | 105.87843 (07042007) |
| 3765600.0 | 69.91806 (07042007) | 73.38308 (07042007) | 76.09215 (07042007) | 78.23620 (07042007) | 80.19321 (07042007) |
| 3765580.0 | 55.91774 (07042007) | 56.76390 (07042007) | 56.92481 (07042007) | 58.67489 (09052707) | 64.86459 (09052707) |
| 3765560.0 | 43.45984 (09042707) | 46.88880 (09042707) | 49.98354 (09052707) | 53.97517 (09052707) | 57.18706 (09052707) |
| 3765540.0 | 40.59132 (09042707) | 42.98179 (09052707) | 45.98023 (09052707) | 47.81569 (09052707) | 51.71630 (06031716) |
| 3765520.0 | 36.90269 (09052707) | 39.04834 (09052707) | 40.26480 (09052707) | 44.45245 (06031716) | 52.28969 (06031716) |
| 3765500.0 | 33.41608 (09052707) | 34.17049 (09052707) | 38.31639 (06031716) | 45.46865 (06031716) | 51.36722 (06031716) |
| 3765480.0 | 28.95433 (09052707) | 32.62705 (06031716) | 39.26471 (06031716) | 45.20081 (06031716) | 49.20563 (06031716) |
| 3765460.0 | 27.90374 (06031716) | 33.90382 (06031716) | 39.47307 (06031716) | 43.83186 (06031716) | 46.45389 (06031716) |





**MODELOPTs: RegDFAULT CONC ELEV URBAN

USC STUDENT HOUSING HRA (AERMOD)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3001 ***
INCLUDING SOURCE(S): 3001 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 142.83851 (07042007) | 156.15896 (07042007) | 172.98476 (07042007) | 216.08637 (06090401) | 297.92608 (06090401) |
| 3765620.0 | 111.72783 (07042007) | 116.75188 (07042007) | 136.83303 (06090401) | 172.86706 (06090506) | 218.80378 (06090401) |
| 3765600.0 | 80.86180 (07042007) | 95.41216 (06090401) | 114.61668 (06090401) | 137.83294 (06090401) | 164.08135 (06090401) |
| 3765580.0 | 70.87662 (06090401) | 82.40333 (06090401) | 95.86940 (06090401) | 110.95206 (06090401) | 126.53095 (06090401) |
| 3765560.0 | 62.55246 (06090401) | 71.90027 (06031716) | 81.96569 (06031716) | 90.60680 (06090401) | 100.28053 (06090401) |
| 3765540.0 | 59.63243 (06031716) | 66.84176 (06031716) | 72.62926 (06031716) | 75.84518 (09010316) | 81.41178 (06090401) |
| 3765520.0 | 57.93775 (06031716) | 60.74660 (06031716) | 63.62448 (09010316) | 65.06532 (09010316) | 67.46062 (06090401) |
| 3765500.0 | 54.85604 (06031716) | 55.29008 (06031716) | 56.16688 (09010316) | 55.49497 (09010316) | 56.87309 (06090401) |
| 3765480.0 | 50.78684 (06031716) | 51.23699 (09010316) | 50.67002 (09010316) | 47.93387 (09010316) | 48.64576 (06090401) |
| 3765460.0 | 47.58772 (09010316) | 48.30453 (09010316) | 46.82790 (09010316) | 42.54082 (10050907) | 42.27735 (10050907) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3001 ***
INCLUDING SOURCE(S): 3001 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 72.31052 | (06090401) | 382071.00 | 3765565.00 | 72.31052 | (06090401) |
| 382071.00 | 3765565.00 | 72.31052 | (06090401) | 382071.00 | 3765565.00 | 72.31052 | (06090401) |
| 382071.00 | 3765565.00 | 72.31052 | (06090401) | 382071.00 | 3765565.00 | 72.31052 | (06090401) |
| 382071.00 | 3765565.00 | 72.31052 | (06090401) | 382051.00 | 3765530.00 | 57.66272 | (06031716) |
| 382051.00 | 3765530.00 | 57.66272 | (06031716) | 382051.00 | 3765530.00 | 57.66272 | (06031716) |
| 382051.00 | 3765530.00 | 57.66272 | (06031716) | 382051.00 | 3765530.00 | 57.66272 | (06031716) |
| 382051.00 | 3765530.00 | 57.66272 | (06031716) | 382051.00 | 3765530.00 | 57.66272 | (06031716) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3002 ***
INCLUDING SOURCE(S): 3002 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 70.72026 (09121516) | 82.04035 (09121516) | 95.65612 (09121516) | 111.73920 (09121516) | 143.69312 (06090401) |
| 3765620.0 | 78.77921 (07042007) | 94.30768 (07042007) | 113.22758 (07042007) | 138.28405 (07042007) | 169.56417 (07042007) |
| 3765600.0 | 101.74361 (07042007) | 120.29824 (07042007) | 142.09261 (07042007) | 168.45943 (07042007) | 203.82943 (07042007) |
| 3765580.0 | 116.23827 (07042007) | 134.99773 (07042007) | 155.88727 (07042007) | 179.93617 (07042007) | 207.45367 (07042007) |
| 3765560.0 | 117.08422 (07042007) | 132.17320 (07042007) | 147.70997 (07042007) | 162.10217 (07042007) | 181.53017 (07042007) |
| 3765540.0 | 106.08072 (07042007) | 115.62420 (07042007) | 124.40795 (07042007) | 132.67865 (07042007) | 137.06415 (07042007) |
| 3765520.0 | 85.95079 (07042007) | 89.77610 (07042007) | 92.77895 (07042007) | 93.89726 (07042007) | 102.67677 (06090401) |
| 3765500.0 | 63.38473 (07042007) | 66.64557 (09042707) | 73.53134 (09052707) | 79.84454 (09052707) | 90.10899 (06031716) |
| 3765480.0 | 54.50341 (09042707) | 60.05457 (09052707) | 64.52850 (09052707) | 73.46243 (06031716) | 88.34073 (06031716) |
| 3765460.0 | 49.38774 (09052707) | 52.62971 (09052707) | 59.89506 (06031716) | 73.40725 (06031716) | 84.12672 (06031716) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3002 ***
INCLUDING SOURCE(S): 3002 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 195.26130 (06090401) | 281.01310 (06090401) | 434.80910 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765620.0 | 213.37690 (07042007) | 323.19351 (06090401) | 556.63103 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765600.0 | 243.01737 (07042007) | 329.73124 (06090401) | 578.29810 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765580.0 | 231.34222 (07042007) | 296.07138 (06090401) | 475.07537 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765560.0 | 198.64422 (07042007) | 243.38420 (06090401) | 346.23589 (06090401) | 495.67518 (06090401) | 0.00000 (00000000) |
| 3765540.0 | 149.88196 (06090401) | 192.52856 (06090401) | 248.10273 (06090401) | 310.93737 (06090401) | 358.69215 (06090401) |
| 3765520.0 | 124.62391 (06090401) | 151.51750 (06090401) | 182.12291 (06090401) | 211.70229 (06090401) | 231.29828 (06090401) |
| 3765500.0 | 105.87155 (06031716) | 120.49796 (06090401) | 138.15371 (06090401) | 153.61212 (06090401) | 163.09713 (06090401) |
| 3765480.0 | 97.71342 (06031716) | 100.70845 (09010316) | 108.09705 (06090401) | 116.88147 (06090401) | 122.02219 (06090401) |
| 3765460.0 | 90.55700 (06031716) | 93.14217 (09010316) | 90.06721 (09010316) | 92.20545 (06090401) | 95.23464 (06090401) |

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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3002 ***

INCLUDING SOURCE(S): 3002 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 243.65947 | (06090401) | 382071.00 | 3765565.00 | 243.65947 | (06090401) |
| 382071.00 | 3765565.00 | 243.65947 | (06090401) | 382071.00 | 3765565.00 | 243.65947 | (06090401) |
| 382071.00 | 3765565.00 | 243.65947 | (06090401) | 382071.00 | 3765565.00 | 243.65947 | (06090401) |
| 382071.00 | 3765565.00 | 243.65947 | (06090401) | 382051.00 | 3765530.00 | 132.40352 | (06090401) |
| 382051.00 | 3765530.00 | 132.40352 | (06090401) | 382051.00 | 3765530.00 | 132.40352 | (06090401) |
| 382051.00 | 3765530.00 | 132.40352 | (06090401) | 382051.00 | 3765530.00 | 132.40352 | (06090401) |
| 382051.00 | 3765530.00 | 132.40352 | (06090401) | 382051.00 | 3765530.00 | 132.40352 | (06090401) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3003 ***
INCLUDING SOURCE(S): 3003 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 73.70597 (09052507) | 86.59842 (09052507) | 95.80623 (09052507) | 98.47988 (09052507) | 95.65356 (06090401) |
| 3765620.0 | 71.03458 (09052507) | 89.35470 (09052507) | 105.14500 (09052507) | 117.30020 (09052507) | 120.12538 (09052507) |
| 3765600.0 | 84.17235 (09012717) | 91.85104 (09012717) | 108.95097 (09052507) | 130.22213 (09052507) | 146.83856 (09052507) |
| 3765580.0 | 93.39464 (09012717) | 107.30074 (09012717) | 120.48824 (09012717) | 139.34673 (06090401) | 179.50727 (06090401) |
| 3765560.0 | 93.53386 (09012717) | 112.58084 (09012717) | 133.56876 (09012717) | 160.98630 (06090401) | 219.39854 (06090401) |
| 3765540.0 | 96.84829 (09121516) | 115.58159 (09121516) | 138.91900 (09121516) | 178.81281 (06090401) | 256.45430 (06090401) |
| 3765520.0 | 124.13119 (07042007) | 152.31607 (07042007) | 190.56022 (07042007) | 238.20075 (07042007) | 306.68410 (07042007) |
| 3765500.0 | 150.69528 (07042007) | 183.34639 (07042007) | 224.96321 (07042007) | 273.41832 (07042007) | 340.80178 (07042007) |
| 3765480.0 | 155.17141 (07042007) | 184.11481 (07042007) | 216.66797 (07042007) | 257.26690 (07042007) | 303.78880 (07042007) |
| 3765460.0 | 140.05694 (07042007) | 159.72621 (07042007) | 179.39148 (07042007) | 199.27731 (07042007) | 219.86455 (07042007) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3003 ***
INCLUDING SOURCE(S): 3003 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 107.46191 (06090401) | 118.01485 (06090401) | 125.82940 (10100517) | 144.82340 (10100517) | 149.86442 (10100517) |
| 3765620.0 | 136.08760 (06090401) | 154.37367 (06090401) | 167.98323 (06090401) | 180.30300 (10100517) | 183.21441 (07052117) |
| 3765600.0 | 176.64300 (06090401) | 210.70389 (06090401) | 238.68490 (06090401) | 249.10112 (06090401) | 236.50550 (06090401) |
| 3765580.0 | 234.31284 (06090401) | 302.98961 (06090401) | 369.68295 (06090506) | 397.47852 (06090401) | 363.79866 (06090506) |
| 3765560.0 | 312.50395 (06090401) | 459.99399 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 634.10415 (07040816) |
| 3765540.0 | 400.71604 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765520.0 | 455.22039 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765500.0 | 431.72587 (07042007) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765480.0 | 361.04092 (07042007) | 548.19370 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765460.0 | 262.79944 (06090401) | 355.38543 (06090401) | 454.66154 (06090401) | 499.41576 (06090401) | 446.21381 (06090401) |

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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3003 ***
INCLUDING SOURCE(S): 3003 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 391.82354 | (06090401) | 382071.00 | 3765565.00 | 391.82354 | (06090401) |
| 382071.00 | 3765565.00 | 391.82354 | (06090401) | 382071.00 | 3765565.00 | 391.82354 | (06090401) |
| 382071.00 | 3765565.00 | 391.82354 | (06090401) | 382071.00 | 3765565.00 | 391.82354 | (06090401) |
| 382071.00 | 3765565.00 | 391.82354 | (06090401) | 382051.00 | 3765530.00 | 402.12589 | (06090401) |
| 382051.00 | 3765530.00 | 402.12589 | (06090401) | 382051.00 | 3765530.00 | 402.12589 | (06090401) |
| 382051.00 | 3765530.00 | 402.12589 | (06090401) | 382051.00 | 3765530.00 | 402.12589 | (06090401) |
| 382051.00 | 3765530.00 | 402.12589 | (06090401) | 382051.00 | 3765530.00 | 402.12589 | (06090401) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3004 ***
INCLUDING SOURCE(S): 3004 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 40.11463 (11091107) | 43.34312 (11091107) | 45.09800 (06090401) | 47.34585 (06090401) | 49.53751 (11013010) |
| 3765620.0 | 44.99391 (09052507) | 48.55110 (06090401) | 51.99184 (06090401) | 55.10149 (06090401) | 57.62138 (06090401) |
| 3765600.0 | 54.73962 (09052507) | 55.84131 (06090401) | 60.58293 (06090401) | 64.97583 (06090401) | 68.64659 (06090401) |
| 3765580.0 | 64.89608 (09052507) | 64.83614 (09052507) | 71.42166 (06090401) | 77.83379 (06090401) | 83.34821 (06090401) |
| 3765560.0 | 74.52119 (09052507) | 78.53415 (09052507) | 85.21338 (06090401) | 94.84840 (06090401) | 103.55817 (06090401) |
| 3765540.0 | 82.25994 (09052507) | 91.85689 (09052507) | 102.90981 (06090401) | 117.97730 (06090401) | 132.30257 (06090401) |
| 3765520.0 | 87.46549 (06090401) | 104.60874 (06090401) | 125.52560 (06090401) | 149.77285 (06090401) | 175.18258 (06090401) |
| 3765500.0 | 99.26378 (06090401) | 122.70617 (06090401) | 153.80486 (06090401) | 193.92582 (06090401) | 241.77796 (06090401) |
| 3765480.0 | 110.86771 (06090506) | 141.83109 (06090401) | 186.82879 (06090401) | 253.29412 (06090401) | 348.48753 (06090401) |
| 3765460.0 | 120.66815 (06090401) | 159.16419 (06090401) | 220.27701 (06090401) | 324.14892 (06090401) | 513.73814 (06090401) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3004 ***
INCLUDING SOURCE(S): 3004 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 56.65108 (10100517) | 67.21738 (10100517) | 74.16586 (10100517) | 76.58022 (07052117) | 74.51718 (07052117) |
| 3765620.0 | 65.23795 (10100517) | 77.52586 (10100517) | 85.09081 (10100517) | 86.92478 (07052117) | 83.11875 (07052117) |
| 3765600.0 | 75.98435 (10100517) | 90.43866 (10100517) | 98.59674 (10100517) | 99.33785 (07052117) | 93.08940 (07052117) |
| 3765580.0 | 89.67838 (10100517) | 106.84209 (10100517) | 115.52889 (10100517) | 114.47141 (07052117) | 104.61241 (07052117) |
| 3765560.0 | 109.92178 (06090401) | 128.40060 (10100517) | 137.32255 (10100517) | 133.46794 (07052117) | 118.26085 (07052117) |
| 3765540.0 | 143.43305 (06090401) | 158.07319 (10100517) | 166.62329 (10100517) | 157.84068 (07052117) | 134.64026 (07052117) |
| 3765520.0 | 196.54868 (06090401) | 206.78521 (06090401) | 207.75588 (07052117) | 190.10714 (07052117) | 195.49139 (07040816) |
| 3765500.0 | 287.82579 (06090401) | 312.29040 (06090401) | 300.02723 (06090506) | 287.45957 (07040816) | 281.83944 (07040816) |
| 3765480.0 | 463.50417 (06090401) | 538.74601 (06090401) | 501.42271 (06090401) | 440.10104 (07040816) | 379.36532 (07040816) |
| 3765460.0 | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 658.04464 (07040816) | 468.57973 (07040816) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3004 ***
INCLUDING SOURCE(S): 3004 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 120.05144 | (10100517) | 382071.00 | 3765565.00 | 120.05144 | (10100517) |
| 382071.00 | 3765565.00 | 120.05144 | (10100517) | 382071.00 | 3765565.00 | 120.05144 | (10100517) |
| 382071.00 | 3765565.00 | 120.05144 | (10100517) | 382071.00 | 3765565.00 | 120.05144 | (10100517) |
| 382071.00 | 3765565.00 | 120.05144 | (10100517) | 382051.00 | 3765530.00 | 164.81729 | (06090401) |
| 382051.00 | 3765530.00 | 164.81729 | (06090401) | 382051.00 | 3765530.00 | 164.81729 | (06090401) |
| 382051.00 | 3765530.00 | 164.81729 | (06090401) | 382051.00 | 3765530.00 | 164.81729 | (06090401) |
| 382051.00 | 3765530.00 | 164.81729 | (06090401) | 382051.00 | 3765530.00 | 164.81729 | (06090401) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3005 ***
INCLUDING SOURCE(S): 3005 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 \| | 27.07796 (11051408) | 29.39588 (11060807) | 31.26367 (11013010) | 34.11944 (11013010) | 37.97711 (10100517) |
| 3765620.0 \| | 29.73911 (11051408) | 31.74002 (11060807) | 34.08885 (11013010) | 37.50959 (11013010) | 42.31033 (10100517) |
| 3765600.0 \| | 32.88918 (06031715) | 34.34586 (11060807) | 37.32424 (11013010) | 41.45005 (11013010) | 47.43584 (10100517) |
| 3765580.0 \| | 36.88526 (06090401) | 38.42018 (06090401) | 41.05166 (11013010) | 46.07513 (11013010) | 53.55761 (10100517) |
| 3765560.0 \| | 41.87959 (06090401) | 43.92276 (06090401) | 45.58388 (06090401) | 51.53329 (11013010) | 60.95566 (10100517) |
| 3765540.0 \| | 47.96985 (06090401) | 50.74829 (06090401) | 53.04832 (06090401) | 58.09752 (11013010) | 70.00382 (10100517) |
| 3765520.0 \| | 55.46391 (06090506) | 59.32920 (06090401) | 62.61539 (06090401) | 66.90845 (10100517) | 81.28811 (10100517) |
| 3765500.0 \| | 64.80119 (06090401) | 70.33590 (06090401) | 75.17581 (06090401) | 78.73639 (06090401) | 95.55864 (10100517) |
| 3765480.0 \| | 76.50697 (06090401) | 84.64957 (06090401) | 92.04690 (06090401) | 97.73931 (06090401) | 114.03386 (10100517) |
| 3765460.0 \| | 91.30898 (06090401) | 103.65533 (06090401) | 115.51987 (06090401) | 125.08486 (06090401) | 139.04007 (10100517) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3005 ***
INCLUDING SOURCE(S): 3005 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD | X-COORD (METERS)

| (METERS) | 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 43.06259 (10100517) | 46.39696 (10100517) | 47.87358 (07052117) | 47.35450 (07052117) | 44.69399 (07052117) |
| 3765620.0 | 47.89844 (10100517) | 51.34980 (10100517) | 52.64284 (07052117) | 51.48403 (07052117) | 47.90745 (07052117) |
| 3765600.0 | 53.59874 (10100517) | 57.13926 (10100517) | 58.11385 (07052117) | 56.09367 (07052117) | 51.38012 (07052117) |
| 3765580.0 | 60.37768 (10100517) | 63.94035 (10100517) | 64.42371 (07052117) | 61.26711 (07052117) | 55.09144 (07052117) |
| 3765560.0 | 68.54649 (10100517) | 72.02465 (07052117) | 71.71812 (07052117) | 67.05875 (07052117) | 59.04506 (07052117) |
| 3765540.0 | 78.46275 (10100517) | 81.78937 (07052117) | 80.21366 (07052117) | 73.52012 (07052117) | 63.20702 (07052117) |
| 3765520.0 | 90.73305 (10100517) | 93.54759 (07052117) | 90.13700 (07052117) | 80.72888 (07052117) | 67.51031 (07052117) |
| 3765500.0 | 106.08524 (10100517) | 107.90255 (07052117) | 101.81076 (07052117) | 88.74562 (07052117) | 76.90528 (11111416) |
| 3765480.0 | 125.67491 (10100517) | 125.89644 (07052117) | 115.76268 (07052117) | 97.65282 (07052117) | 92.38906 (11111416) |
| 3765460.0 | 151.86820 (10100517) | 149.20669 (07052117) | 132.87978 (07052117) | 118.43844 (07040816) | 128.94503 (07040816) |

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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3005 ***
INCLUDING SOURCE(S): 3005 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 69.61167 | (10100517) | 382071.00 | 3765565.00 | 69.61167 | (10100517) |
| 382071.00 | 3765565.00 | 69.61167 | (10100517) | 382071.00 | 3765565.00 | 69.61167 | (10100517) |
| 382071.00 | 3765565.00 | 69.61167 | (10100517) | 382071.00 | 3765565.00 | 69.61167 | (10100517) |
| 382071.00 | 3765565.00 | 69.61167 | (10100517) | 382051.00 | 3765530.00 | 83.26751 | (10100517) |
| 382051.00 | 3765530.00 | 83.26751 | (10100517) | 382051.00 | 3765530.00 | 83.26751 | (10100517) |
| 382051.00 | 3765530.00 | 83.26751 | (10100517) | 382051.00 | 3765530.00 | 83.26751 | (10100517) |
| 382051.00 | 3765530.00 | 83.26751 | (10100517) | 382051.00 | 3765530.00 | 83.26751 | (10100517) |

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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3006 ***
INCLUDING SOURCE(S): 3006 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD | X-COORD (METERS) | | | | |
|---|---|---|---|---|---|
| (METERS) | 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |

| | | | | | |
|---|---|---|---|---|---|
| 3765640.0 | 22.85525 (11013010) | 24.08497 (11013010) | 26.07949 (10100517) | 29.46101 (10100517) | 31.98021 (10100517) |
| 3765620.0 | 24.60856 (11013010) | 26.05145 (11013010) | 28.50185 (10100517) | 32.16042 (10100517) | 34.79194 (10100517) |
| 3765600.0 | 26.57191 (11013010) | 28.27222 (11013010) | 31.26454 (10100517) | 35.22541 (10100517) | 37.96770 (10100517) |
| 3765580.0 | 28.78224 (11013010) | 30.79755 (11013010) | 34.43762 (10100517) | 38.73593 (10100517) | 41.57048 (10100517) |
| 3765560.0 | 31.29003 (11013010) | 33.69398 (11013010) | 38.11178 (10100517) | 42.78411 (10100517) | 45.69727 (10100517) |
| 3765540.0 | 34.15234 (11013010) | 37.04076 (11013010) | 42.40791 (10100517) | 47.50850 (10100517) | 50.45241 (10100517) |
| 3765520.0 | 37.43675 (11013010) | 40.93405 (11013010) | 47.47406 (10100517) | 53.04650 (10100517) | 55.99266 (10100517) |
| 3765500.0 | 41.23090 (11013010) | 45.50450 (11013010) | 53.51404 (10100517) | 59.62064 (10100517) | 62.54112 (07052117) |
| 3765480.0 | 45.63727 (11013010) | 51.10330 (10100517) | 60.78129 (10100517) | 67.49326 (10100517) | 70.29810 (07052117) |
| 3765460.0 | 51.41396 (06090401) | 58.45256 (10100517) | 69.66307 (10100517) | 77.02813 (10100517) | 79.52247 (07052117) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3006 ***
INCLUDING SOURCE(S): 3006 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 33.42122 (07052117) | 34.02012 (07052117) | 33.34823 (07052117) | 31.51460 (07052117) | 28.74577 (07052117) |
| 3765620.0 | 36.22004 (07052117) | 36.59431 (07052117) | 35.54167 (07052117) | 33.22658 (07052117) | 29.93386 (07052117) |
| 3765600.0 | 39.35361 (07052117) | 39.43271 (07052117) | 37.90413 (07052117) | 35.00905 (07052117) | 31.11906 (07052117) |
| 3765580.0 | 42.88030 (07052117) | 42.56942 (07052117) | 40.45869 (07052117) | 36.87325 (07052117) | 32.27959 (07052117) |
| 3765560.0 | 46.87510 (07052117) | 46.04574 (07052117) | 43.20954 (07052117) | 38.80442 (07052117) | 33.40324 (07052117) |
| 3765540.0 | 51.40052 (07052117) | 49.91531 (07052117) | 46.17252 (07052117) | 40.77903 (07052117) | 34.45908 (07052117) |
| 3765520.0 | 56.57882 (07052117) | 54.21072 (07052117) | 49.34547 (07052117) | 42.77683 (07052117) | 35.40663 (07052117) |
| 3765500.0 | 62.51231 (07052117) | 59.00105 (07052117) | 52.73491 (07052117) | 44.76306 (07052117) | 39.70604 (11111416) |
| 3765480.0 | 69.34068 (07052117) | 64.33399 (07052117) | 56.32395 (07052117) | 46.68658 (07052117) | 46.49529 (11111416) |
| 3765460.0 | 77.26008 (07052117) | 70.27682 (07052117) | 60.08039 (07052117) | 53.04745 (11111416) | 53.90529 (11111416) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3006 ***
INCLUDING SOURCE(S): 3006 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 45.37968 (07052117) | 382071.00 | 3765565.00 | 45.37968 (07052117) |
| 382071.00 | 3765565.00 | 45.37968 (07052117) | 382071.00 | 3765565.00 | 45.37968 (07052117) |
| 382071.00 | 3765565.00 | 45.37968 (07052117) | 382071.00 | 3765565.00 | 45.37968 (07052117) |
| 382071.00 | 3765565.00 | 45.37968 (07052117) | 382051.00 | 3765530.00 | 53.94999 (07052117) |
| 382051.00 | 3765530.00 | 53.94999 (07052117) | 382051.00 | 3765530.00 | 53.94999 (07052117) |
| 382051.00 | 3765530.00 | 53.94999 (07052117) | 382051.00 | 3765530.00 | 53.94999 (07052117) |
| 382051.00 | 3765530.00 | 53.94999 (07052117) | 382051.00 | 3765530.00 | 53.94999 (07052117) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
PAGE 181
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3007 ***
INCLUDING SOURCE(S): 3007 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 18.93298 (10100517) | 21.32540 (10100517) | 23.24968 (10100517) | 24.54947 (10100517) | 25.34511 (07052117) |
| 3765620.0 | 20.43017 (10100517) | 22.98982 (10100517) | 25.00210 (10100517) | 26.30159 (10100517) | 27.06520 (07052117) |
| 3765600.0 | 22.10407 (10100517) | 24.84503 (10100517) | 26.94802 (10100517) | 28.22867 (10100517) | 28.94117 (07052117) |
| 3765580.0 | 23.98172 (10100517) | 26.92292 (10100517) | 29.11640 (10100517) | 30.40148 (07052117) | 30.98721 (07052117) |
| 3765560.0 | 26.09516 (10100517) | 29.25522 (10100517) | 31.53587 (10100517) | 32.81645 (07052117) | 33.22098 (07052117) |
| 3765540.0 | 28.48962 (10100517) | 31.88950 (10100517) | 34.25117 (10100517) | 35.50375 (07052117) | 35.65782 (07052117) |
| 3765520.0 | 31.21102 (10100517) | 34.87238 (10100517) | 37.30678 (10100517) | 38.48749 (07052117) | 38.33660 (07052117) |
| 3765500.0 | 34.32825 (10100517) | 38.27842 (10100517) | 40.76352 (10100517) | 41.84070 (07052117) | 41.28595 (07052117) |
| 3765480.0 | 37.92152 (10100517) | 42.18851 (10100517) | 44.69416 (10100517) | 45.61498 (07052117) | 44.53979 (07052117) |
| 3765460.0 | 42.11090 (10100517) | 46.72802 (10100517) | 49.21907 (10100517) | 49.87966 (07052117) | 48.13936 (07052117) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
PAGE 182
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3007 ***
INCLUDING SOURCE(S): 3007 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 25.47828 (07052117) | 24.83817 (07052117) | 23.50521 (07052117) | 21.60866 (07052117) | 19.31428 (07052117) |

| | | | | | |
|---|---|---|---|---|---|
| 3765620.0 | 27.02731 (07052117) | 26.14482 (07052117) | 24.52354 (07052117) | 22.32488 (07052117) | 19.73917 (07052117) |
| 3765600.0 | 28.69270 (07052117) | 27.52608 (07052117) | 25.57029 (07052117) | 23.02813 (07052117) | 20.12806 (07052117) |
| 3765580.0 | 30.48013 (07052117) | 28.97489 (07052117) | 26.64000 (07052117) | 23.71526 (07052117) | 20.46423 (07052117) |
| 3765560.0 | 32.40387 (07052117) | 30.49177 (07052117) | 27.71890 (07052117) | 24.37011 (07052117) | 20.74108 (07052117) |
| 3765540.0 | 34.45784 (07052117) | 32.08007 (07052117) | 28.80138 (07052117) | 24.97505 (07052117) | 20.94502 (07052117) |
| 3765520.0 | 36.66725 (07052117) | 33.72295 (07052117) | 29.86983 (07052117) | 25.51817 (07052117) | 22.52749 (07032617) |
| 3765500.0 | 39.03869 (07052117) | 35.42969 (07052117) | 30.91613 (07052117) | 25.98337 (07052117) | 24.42614 (07032617) |
| 3765480.0 | 41.58235 (07052117) | 37.19025 (07052117) | 31.92427 (07052117) | 27.13080 (07032617) | 27.14335 (11111416) |
| 3765460.0 | 44.31880 (07052117) | 38.99641 (07052117) | 32.86957 (07052117) | 29.66520 (11111416) | 31.06485 (11111416) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3007 ***
INCLUDING SOURCE(S): 3007 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 30.43918 | (07052117) | 382071.00 | 3765565.00 | 30.43918 | (07052117) |
| 382071.00 | 3765565.00 | 30.43918 | (07052117) | 382071.00 | 3765565.00 | 30.43918 | (07052117) |
| 382071.00 | 3765565.00 | 30.43918 | (07052117) | 382071.00 | 3765565.00 | 30.43918 | (07052117) |
| 382071.00 | 3765565.00 | 30.43918 | (07052117) | 382051.00 | 3765530.00 | 35.83937 | (07052117) |
| 382051.00 | 3765530.00 | 35.83937 | (07052117) | 382051.00 | 3765530.00 | 35.83937 | (07052117) |
| 382051.00 | 3765530.00 | 35.83937 | (07052117) | 382051.00 | 3765530.00 | 35.83937 | (07052117) |
| 382051.00 | 3765530.00 | 35.83937 | (07052117) | 382051.00 | 3765530.00 | 35.83937 | (07052117) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3008 ***
INCLUDING SOURCE(S): 3008 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 16.02200 (10100517) | 16.53829 (07052117) | 16.80046 (07052117) | 16.70438 (07052117) | 16.26417 (07052117) |
| 3765620.0 | 16.91658 (10100517) | 17.43194 (07052117) | 17.63319 (07052117) | 17.44949 (07052117) | 16.89802 (07052117) |
| 3765600.0 | 17.87870 (10100517) | 18.38545 (07052117) | 18.51497 (07052117) | 18.22837 (07052117) | 17.55360 (07052117) |
| 3765580.0 | 18.91384 (10100517) | 19.40592 (07052117) | 19.44988 (07052117) | 19.04566 (07052117) | 18.22956 (07052117) |

| | | | | | |
|---|---|---|---|---|---|
| 3765560.0 | 20.05791 (07052117) | 20.49778 (07052117) | 20.44042 (07052117) | 19.89961 (07052117) | 18.92661 (07052117) |
| 3765540.0 | 21.30281 (07052117) | 21.66931 (07052117) | 21.49241 (07052117) | 20.79749 (07052117) | 19.64257 (07052117) |
| 3765520.0 | 22.64908 (07052117) | 22.92479 (07052117) | 22.60842 (07052117) | 21.73376 (07052117) | 20.38145 (07052117) |
| 3765500.0 | 24.10975 (07052117) | 24.27554 (07052117) | 23.79367 (07052117) | 22.71448 (07052117) | 21.13734 (07052117) |
| 3765480.0 | 25.69228 (07052117) | 25.72365 (07052117) | 25.04722 (07052117) | 23.73695 (07052117) | 21.90743 (07052117) |
| 3765460.0 | 27.41411 (07052117) | 27.28196 (07052117) | 26.37905 (07052117) | 24.80057 (07052117) | 22.68983 (07052117) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3008 ***
INCLUDING SOURCE(S): 3008 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 15.51321 (07052117) | 14.50005 (07052117) | 13.28818 (07052117) | 11.94410 (07052117) | 10.53487 (07052117) |
| 3765620.0 | 16.02221 (07052117) | 14.88016 (07052117) | 13.54291 (07052117) | 12.08477 (07052117) | 10.57651 (07052117) |
| 3765600.0 | 16.53950 (07052117) | 15.25805 (07052117) | 13.78547 (07052117) | 12.20569 (07052117) | 10.59692 (07052117) |
| 3765580.0 | 17.06232 (07052117) | 15.62834 (07052117) | 14.01316 (07052117) | 12.30663 (07052117) | 10.92308 (11050807) |
| 3765560.0 | 17.59209 (07052117) | 15.98955 (07052117) | 14.22113 (07052117) | 12.38323 (07052117) | 11.37776 (11050807) |
| 3765540.0 | 18.12198 (07052117) | 16.34148 (07052117) | 14.40852 (07052117) | 12.43170 (07052117) | 11.80331 (11050807) |
| 3765520.0 | 18.65538 (07052117) | 16.67675 (07052117) | 14.57050 (07052117) | 12.73652 (11050807) | 12.52551 (07032617) |
| 3765500.0 | 19.18481 (07052117) | 16.99482 (07052117) | 14.70526 (07052117) | 13.42359 (07032617) | 13.24557 (07032617) |
| 3765480.0 | 19.70577 (07052117) | 17.28960 (07052117) | 14.80840 (07052117) | 14.30731 (07032617) | 14.09083 (11111416) |
| 3765460.0 | 20.21774 (07052117) | 17.55832 (07052117) | 15.42730 (07032617) | 15.16899 (07032617) | 15.67178 (11111416) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3008 ***
INCLUDING SOURCE(S): 3008 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 16.14791 | (07052117) | 382071.00 | 3765565.00 | 16.14791 | (07052117) |
| 382071.00 | 3765565.00 | 16.14791 | (07052117) | 382071.00 | 3765565.00 | 16.14791 | (07052117) |
| 382071.00 | 3765565.00 | 16.14791 | (07052117) | 382071.00 | 3765565.00 | 16.14791 | (07052117) |
| 382071.00 | 3765565.00 | 16.14791 | (07052117) | 382051.00 | 3765530.00 | 18.65041 | (07052117) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 382051.00 | 3765530.00 | 18.65041 | (07052117) | 382051.00 | 3765530.00 | 18.65041 | (07052117) |
| 382051.00 | 3765530.00 | 18.65041 | (07052117) | 382051.00 | 3765530.00 | 18.65041 | (07052117) |
| 382051.00 | 3765530.00 | 18.65041 | (07052117) | 382051.00 | 3765530.00 | 18.65041 | (07052117) |


**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3009 ***
INCLUDING SOURCE(S): 3009 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 11.30990 (07052117) | 11.13032 (07052117) | 10.77818 (07052117) | 10.27256 (07052117) | 9.63933 (07052117) |
| 3765620.0 | 11.72219 (07052117) | 11.49102 (07052117) | 11.07985 (07052117) | 10.51213 (07052117) | 9.81554 (07052117) |
| 3765600.0 | 12.14978 (07052117) | 11.86112 (07052117) | 11.38587 (07052117) | 10.75040 (07052117) | 9.98711 (07052117) |
| 3765580.0 | 12.59255 (07052117) | 12.24071 (07052117) | 11.69559 (07052117) | 10.98756 (07052117) | 10.15250 (07052117) |
| 3765560.0 | 13.05021 (07052117) | 12.62856 (07052117) | 12.00730 (07052117) | 11.22078 (07052117) | 10.31042 (07052117) |
| 3765540.0 | 13.52363 (07052117) | 13.02494 (07052117) | 12.32083 (07052117) | 11.45096 (07052117) | 10.45897 (07052117) |
| 3765520.0 | 14.01184 (07052117) | 13.42824 (07052117) | 12.63456 (07052117) | 11.67436 (07052117) | 10.59847 (07052117) |
| 3765500.0 | 14.51558 (07052117) | 13.83900 (07052117) | 12.94759 (07052117) | 11.89122 (07052117) | 10.72586 (07052117) |
| 3765480.0 | 15.03288 (07052117) | 14.25407 (07052117) | 13.25676 (07052117) | 12.09873 (07052117) | 10.83932 (07052117) |
| 3765460.0 | 15.56473 (07052117) | 14.67364 (07052117) | 13.56229 (07052117) | 12.29484 (07052117) | 10.93736 (07052117) |


**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3009 ***
INCLUDING SOURCE(S): 3009 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 8.90767 (07052117) | 8.10801 (07052117) | 7.27192 (07052117) | 6.42802 (07052117) | 6.32545 (11050807) |
| 3765620.0 | 9.02311 (07052117) | 8.16812 (07052117) | 7.28379 (07052117) | 6.55323 (11050807) | 6.57119 (11050807) |
| 3765600.0 | 9.13071 (07052117) | 8.21866 (07052117) | 7.28470 (07052117) | 6.84146 (11050807) | 6.80793 (11050807) |
| 3765580.0 | 9.22894 (07052117) | 8.25756 (07052117) | 7.27381 (07052117) | 7.12400 (11050807) | 7.03184 (11050807) |
| 3765560.0 | 9.31738 (07052117) | 8.28400 (07052117) | 7.42653 (11050807) | 7.39715 (11050807) | 7.24058 (11050807) |

| | | | | | |
|---|---|---|---|---|---|
| 3765540.0 | 9.39302 (07052117) | 8.29763 (07052117) | 7.75295 (11050807) | 7.65705 (11050807) | 7.43082 (11050807) |
| 3765520.0 | 9.45656 (07052117) | 8.29606 (07052117) | 8.07003 (11050807) | 7.90060 (11050807) | 7.59904 (11050807) |
| 3765500.0 | 9.50519 (07052117) | 8.47431 (11050807) | 8.37450 (11050807) | 8.12423 (11050807) | 7.74197 (11050807) |
| 3765480.0 | 9.53729 (07052117) | 8.84630 (11050807) | 8.66194 (11050807) | 8.32409 (11050807) | 8.05988 (07032617) |
| 3765460.0 | 9.55254 (07052117) | 9.20588 (11050807) | 8.92784 (11050807) | 8.56382 (07032617) | 8.38069 (07032617) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3009 ***
INCLUDING SOURCE(S): 3009 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 8.43262 | (07052117) | 382071.00 | 3765565.00 | 8.43262 | (07052117) |
| 382071.00 | 3765565.00 | 8.43262 | (07052117) | 382071.00 | 3765565.00 | 8.43262 | (07052117) |
| 382071.00 | 3765565.00 | 8.43262 | (07052117) | 382071.00 | 3765565.00 | 8.43262 | (07052117) |
| 382071.00 | 3765565.00 | 8.43262 | (07052117) | 382051.00 | 3765530.00 | 9.59443 | (07052117) |
| 382051.00 | 3765530.00 | 9.59443 | (07052117) | 382051.00 | 3765530.00 | 9.59443 | (07052117) |
| 382051.00 | 3765530.00 | 9.59443 | (07052117) | 382051.00 | 3765530.00 | 9.59443 | (07052117) |
| 382051.00 | 3765530.00 | 9.59443 | (07052117) | 382051.00 | 3765530.00 | 9.59443 | (07052117) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3010 ***
INCLUDING SOURCE(S): 3010 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 13.64124 (07052117) | 13.96826 (07052117) | 14.03798 (07052117) | 13.85054 (07052117) | 13.42137 (07052117) |
| 3765620.0 | 14.32594 (07052117) | 14.61920 (07052117) | 14.63460 (07052117) | 14.37752 (07052117) | 13.86540 (07052117) |
| 3765600.0 | 15.05390 (07052117) | 15.30605 (07052117) | 15.25963 (07052117) | 14.92285 (07052117) | 14.32039 (07052117) |
| 3765580.0 | 15.82768 (07052117) | 16.03159 (07052117) | 15.91427 (07052117) | 15.48875 (07052117) | 14.78496 (07052117) |
| 3765560.0 | 16.64986 (07052117) | 16.79659 (07052117) | 16.59803 (07052117) | 16.07209 (07052117) | 15.25812 (07052117) |
| 3765540.0 | 17.52538 (07052117) | 17.60475 (07052117) | 17.31338 (07052117) | 16.67676 (07052117) | 15.73773 (07052117) |
| 3765520.0 | 18.45682 (07052117) | 18.45686 (07052117) | 18.06037 (07052117) | 17.29796 (07052117) | 16.22604 (07052117) |
| 3765500.0 | 19.45188 (07052117) | 19.35979 (07052117) | 18.84208 (07052117) | 17.93950 (07052117) | 16.71901 (07052117) |

| | | | | | |
|---|---|---|---|---|---|
| 3765480.0 | 20.51296 (07052117) | 20.31320 (07052117) | 19.65727 (07052117) | 18.59996 (07052117) | 17.21585 (07052117) |
| 3765460.0 | 21.64841 (07052117) | 21.32311 (07052117) | 20.51090 (07052117) | 19.27832 (07052117) | 17.71546 (07052117) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3010 ***
INCLUDING SOURCE(S): 3010 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 12.77704 (07052117) | 11.95261 (07052117) | 10.99196 (07052117) | 9.94009 (07052117) | 8.84215 (07052117) |
| 3765620.0 | 13.13130 (07052117) | 12.21613 (07052117) | 11.16815 (07052117) | 10.03702 (07052117) | 8.86987 (07052117) |
| 3765600.0 | 13.48835 (07052117) | 12.47628 (07052117) | 11.33499 (07052117) | 10.11995 (07052117) | 8.88290 (07052117) |
| 3765580.0 | 13.84621 (07052117) | 12.72943 (07052117) | 11.49081 (07052117) | 10.18897 (07052117) | 8.99275 (11050807) |
| 3765560.0 | 14.20497 (07052117) | 12.97434 (07052117) | 11.63239 (07052117) | 10.24128 (07052117) | 9.36646 (11050807) |
| 3765540.0 | 14.55957 (07052117) | 13.21057 (07052117) | 11.75905 (07052117) | 10.27442 (07052117) | 9.72350 (11050807) |
| 3765520.0 | 14.91230 (07052117) | 13.43344 (07052117) | 11.86792 (07052117) | 10.35254 (11050807) | 10.05821 (11050807) |
| 3765500.0 | 15.25836 (07052117) | 13.64307 (07052117) | 11.95834 (07052117) | 10.77928 (11050807) | 10.43502 (07032617) |
| 3765480.0 | 15.59600 (07052117) | 13.83635 (07052117) | 12.02805 (07052117) | 11.18360 (11050807) | 11.00215 (07032617) |
| 3765460.0 | 15.92557 (07052117) | 14.01252 (07052117) | 12.07548 (07052117) | 11.78071 (07032617) | 11.54666 (07032617) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3010 ***
INCLUDING SOURCE(S): 3010 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 13.10345 | (07052117) | 382071.00 | 3765565.00 | 13.10345 | (07052117) |
| 382071.00 | 3765565.00 | 13.10345 | (07052117) | 382071.00 | 3765565.00 | 13.10345 | (07052117) |
| 382071.00 | 3765565.00 | 13.10345 | (07052117) | 382071.00 | 3765565.00 | 13.10345 | (07052117) |
| 382071.00 | 3765565.00 | 13.10345 | (07052117) | 382051.00 | 3765530.00 | 14.93527 | (07052117) |
| 382051.00 | 3765530.00 | 14.93527 | (07052117) | 382051.00 | 3765530.00 | 14.93527 | (07052117) |
| 382051.00 | 3765530.00 | 14.93527 | (07052117) | 382051.00 | 3765530.00 | 14.93527 | (07052117) |
| 382051.00 | 3765530.00 | 14.93527 | (07052117) | 382051.00 | 3765530.00 | 14.93527 | (07052117) |

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3011 ***
INCLUDING SOURCE(S): 3011 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 17.79989 (10100517) | 19.46290 (10100517) | 20.67845 (10100517) | 21.45156 (07052117) | 21.83551 (07052117) |
| 3765620.0 | 19.07613 (10100517) | 20.81655 (10100517) | 22.04594 (10100517) | 22.82434 (07052117) | 23.10571 (07052117) |
| 3765600.0 | 20.48660 (10100517) | 22.30559 (10100517) | 23.54252 (10100517) | 24.31140 (07052117) | 24.46927 (07052117) |
| 3765580.0 | 22.04928 (10100517) | 23.94983 (10100517) | 25.18448 (10100517) | 25.92986 (07052117) | 25.93169 (07052117) |
| 3765560.0 | 23.78500 (10100517) | 25.76761 (10100517) | 26.98653 (10100517) | 27.68548 (07052117) | 27.50009 (07052117) |
| 3765540.0 | 25.72325 (10100517) | 27.78731 (10100517) | 29.01198 (07052117) | 29.60358 (07052117) | 29.17907 (07052117) |
| 3765520.0 | 27.89228 (10100517) | 30.03452 (10100517) | 31.26559 (07052117) | 31.68880 (07052117) | 30.98624 (07052117) |
| 3765500.0 | 30.33383 (10100517) | 32.55097 (10100517) | 33.76084 (07052117) | 33.96895 (07052117) | 32.92117 (07052117) |
| 3765480.0 | 33.08631 (10100517) | 35.36795 (10100517) | 36.52040 (07052117) | 36.45775 (07052117) | 34.98937 (07052117) |
| 3765460.0 | 36.21187 (10100517) | 38.54221 (10100517) | 39.60211 (07052117) | 39.18126 (07052117) | 37.20124 (07052117) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3011 ***
INCLUDING SOURCE(S): 3011 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 21.61892 (07052117) | 20.83032 (07052117) | 19.54778 (07052117) | 17.87733 (07052117) | 15.94458 (07052117) |
| 3765620.0 | 22.72882 (07052117) | 21.73945 (07052117) | 20.23397 (07052117) | 18.33983 (07052117) | 16.19769 (07052117) |
| 3765600.0 | 23.90267 (07052117) | 22.68410 (07052117) | 20.92593 (07052117) | 18.78256 (07052117) | 16.41836 (07052117) |
| 3765580.0 | 25.14081 (07052117) | 23.65678 (07052117) | 21.61850 (07052117) | 19.20304 (07052117) | 16.59532 (07052117) |
| 3765560.0 | 26.44902 (07052117) | 24.65530 (07052117) | 22.30101 (07052117) | 19.59002 (07052117) | 16.72469 (07052117) |
| 3765540.0 | 27.81857 (07052117) | 25.67918 (07052117) | 22.96865 (07052117) | 19.93172 (07052117) | 16.79794 (07052117) |
| 3765520.0 | 29.26095 (07052117) | 26.71428 (07052117) | 23.60873 (07052117) | 20.22061 (07052117) | 18.01607 (07032617) |
| 3765500.0 | 30.76606 (07052117) | 27.75882 (07052117) | 24.21345 (07052117) | 20.44647 (07052117) | 19.48702 (07032617) |
| 3765480.0 | 32.32829 (07052117) | 28.79804 (07052117) | 24.76801 (07052117) | 21.25582 (07032617) | 20.93493 (07032617) |

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3765460.0 |    33.95000 (07052117)    29.82221 (07052117)    25.25688 (07052117)    23.12544 (07032617)    22.89868 (11111416)
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                  ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                   ***      15:31:34
                                                                                  PAGE 195
**MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  3011     ***
                       INCLUDING SOURCE(S):     3011       ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                           ** CONC OF OTHER    IN MICROGRAMS/M**3                  **

    X-COORD (M)  Y-COORD (M)       CONC     (YYMMDDHH)          X-COORD (M)  Y-COORD (M)       CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     382071.00  3765565.00     24.70177  (07052117)          382071.00  3765565.00     24.70177  (07052117)
     382071.00  3765565.00     24.70177  (07052117)          382071.00  3765565.00     24.70177  (07052117)
     382071.00  3765565.00     24.70177  (07052117)          382071.00  3765565.00     24.70177  (07052117)
     382071.00  3765565.00     24.70177  (07052117)          382051.00  3765530.00     28.81647  (07052117)
     382051.00  3765530.00     28.81647  (07052117)          382051.00  3765530.00     28.81647  (07052117)
     382051.00  3765530.00     28.81647  (07052117)          382051.00  3765530.00     28.81647  (07052117)
     382051.00  3765530.00     28.81647  (07052117)          382051.00  3765530.00     28.81647  (07052117)
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                  ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                   ***      15:31:34
                                                                                  PAGE 196
**MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                    *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  3012     ***
                       INCLUDING SOURCE(S):     3012       ,

                        *** NETWORK ID: C1001    ;  NETWORK TYPE: GRIDCART ***

                           ** CONC OF OTHER    IN MICROGRAMS/M**3                  **

 Y-COORD  |                                X-COORD (METERS)
 (METERS) |     381954.00          381974.00          381994.00          382014.00          382034.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3765640.0 |    19.41351 (11013010)    20.48896 (10100517)    23.17610 (10100517)    25.32099 (10100517)    26.74291 (10100517)
3765620.0 |    20.82058 (11013010)    22.18552 (10100517)    25.07179 (10100517)    27.32622 (10100517)    28.74150 (10100517)
3765600.0 |    22.39043 (11013010)    24.09116 (10100517)    27.19876 (10100517)    29.56013 (10100517)    30.95555 (10100517)
3765580.0 |    24.14824 (11013010)    26.24366 (10100517)    29.59577 (10100517)    32.06669 (10100517)    33.46584 (07052117)
3765560.0 |    26.12367 (11013010)    28.68193 (10100517)    32.30333 (10100517)    34.87639 (10100517)    36.26076 (07052117)
3765540.0 |    28.35677 (11013010)    31.46397 (10100517)    35.38295 (10100517)    38.05818 (10100517)    39.38078 (07052117)
3765520.0 |    30.89443 (11013010)    34.65343 (10100517)    38.90444 (10100517)    41.65728 (10100517)    42.90539 (07052117)
3765500.0 |    33.80898 (11013010)    38.35723 (10100517)    42.97638 (10100517)    45.78910 (10100517)    46.88777 (07052117)
3765480.0 |    37.17043 (11013010)    42.67555 (10100517)    47.70493 (10100517)    50.55415 (10100517)    51.40647 (07052117)
3765460.0 |    41.08588 (11013010)    47.77267 (10100517)    53.26847 (10100517)    56.08933 (07052117)    56.56397 (07052117)
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                  ***      11/02/16
*** AERMET - VERSION  14134 ***   ***                                                   ***      15:31:34
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3012 ***
INCLUDING SOURCE(S): 3012 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 27.57901 (07052117) | 27.61899 (07052117) | 26.77996 (07052117) | 25.16182 (07052117) | 22.93022 (07052117) |
| 3765620.0 | 29.52740 (07052117) | 29.35994 (07052117) | 28.22848 (07052117) | 26.26983 (07052117) | 23.68221 (07052117) |
| 3765600.0 | 31.65970 (07052117) | 31.23918 (07052117) | 29.75712 (07052117) | 27.39981 (07052117) | 24.41781 (07052117) |
| 3765580.0 | 33.99304 (07052117) | 33.25703 (07052117) | 31.36580 (07052117) | 28.55184 (07052117) | 25.11645 (07052117) |
| 3765560.0 | 36.55729 (07052117) | 35.42441 (07052117) | 33.04429 (07052117) | 29.70902 (07052117) | 25.77040 (07052117) |
| 3765540.0 | 39.36696 (07052117) | 37.76157 (07052117) | 34.79464 (07052117) | 30.85196 (07052117) | 26.36184 (07052117) |
| 3765520.0 | 42.48769 (07052117) | 40.27611 (07052117) | 36.61380 (07052117) | 31.97407 (07052117) | 26.87080 (07052117) |
| 3765500.0 | 45.94419 (07052117) | 42.99462 (07052117) | 38.50265 (07052117) | 33.06035 (07052117) | 27.98218 (07032617) |
| 3765480.0 | 49.77781 (07052117) | 45.92011 (07052117) | 40.44428 (07052117) | 34.08549 (07052117) | 30.76462 (11111416) |
| 3765460.0 | 54.05752 (07052117) | 49.06944 (07052117) | 42.41731 (07052117) | 34.99853 (07052117) | 35.73260 (11111416) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3012 ***
INCLUDING SOURCE(S): 3012 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 35.10768 | (07052117) | 382071.00 | 3765565.00 | 35.10768 | (07052117) |
| 382071.00 | 3765565.00 | 35.10768 | (07052117) | 382071.00 | 3765565.00 | 35.10768 | (07052117) |
| 382071.00 | 3765565.00 | 35.10768 | (07052117) | 382071.00 | 3765565.00 | 35.10768 | (07052117) |
| 382071.00 | 3765565.00 | 35.10768 | (07052117) | 382051.00 | 3765530.00 | 41.02718 | (07052117) |
| 382051.00 | 3765530.00 | 41.02718 | (07052117) | 382051.00 | 3765530.00 | 41.02718 | (07052117) |
| 382051.00 | 3765530.00 | 41.02718 | (07052117) | 382051.00 | 3765530.00 | 41.02718 | (07052117) |
| 382051.00 | 3765530.00 | 41.02718 | (07052117) | 382051.00 | 3765530.00 | 41.02718 | (07052117) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3013 ***
INCLUDING SOURCE(S): 3013 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 23.44852 (11060807) | 24.53403 (11013010) | 26.11134 (11013010) | 28.23384 (10100517) | 32.00673 (10100517) |
| 3765620.0 | 25.18272 (11060807) | 26.47902 (11013010) | 28.33317 (11013010) | 30.97889 (10100517) | 35.07529 (10100517) |
| 3765600.0 | 27.09715 (11060807) | 28.66656 (11013010) | 30.85924 (11013010) | 34.12892 (10100517) | 38.59126 (10100517) |
| 3765580.0 | 29.22219 (11060807) | 31.14674 (11013010) | 33.75739 (11013010) | 37.78639 (10100517) | 42.65684 (10100517) |
| 3765560.0 | 31.58482 (11060807) | 33.97226 (11013010) | 37.10253 (11013010) | 42.05555 (10100517) | 47.39539 (10100517) |
| 3765540.0 | 34.22101 (11060807) | 37.21132 (11013010) | 40.99512 (11013010) | 47.10557 (10100517) | 52.96007 (10100517) |
| 3765520.0 | 37.59305 (06090401) | 40.94356 (11013010) | 45.55884 (11013010) | 53.11674 (10100517) | 59.58350 (10100517) |
| 3765500.0 | 42.92684 (06090401) | 45.27658 (11013010) | 50.95781 (11013010) | 60.37930 (10100517) | 67.52991 (10100517) |
| 3765480.0 | 49.51527 (06090401) | 51.63908 (06090401) | 57.59348 (10100517) | 69.25468 (10100517) | 77.17493 (10100517) |
| 3765460.0 | 57.80155 (06090401) | 60.82043 (06090401) | 66.55378 (10100517) | 80.26045 (10100517) | 89.04455 (10100517) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3013 ***
INCLUDING SOURCE(S): 3013 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 34.77981 (10100517) | 36.30599 (07052117) | 36.82072 (07052117) | 35.88233 (07052117) | 33.64402 (07052117) |
| 3765620.0 | 37.97694 (10100517) | 39.48232 (07052117) | 39.71435 (07052117) | 38.31383 (07052117) | 35.49677 (07052117) |
| 3765600.0 | 41.61180 (10100517) | 43.07065 (07052117) | 42.92563 (07052117) | 40.94260 (07052117) | 37.43887 (07052117) |
| 3765580.0 | 45.78134 (10100517) | 47.13037 (07052117) | 46.49814 (07052117) | 43.79396 (07052117) | 39.45064 (07052117) |
| 3765560.0 | 50.60871 (10100517) | 51.74834 (07052117) | 50.46969 (07052117) | 46.87138 (07052117) | 41.52509 (07052117) |
| 3765540.0 | 56.21503 (10100517) | 57.03960 (07052117) | 54.90254 (07052117) | 50.17346 (07052117) | 43.63593 (07052117) |
| 3765520.0 | 62.81333 (10100517) | 63.11004 (07052117) | 59.84736 (07052117) | 53.70765 (07052117) | 45.74291 (07052117) |
| 3765500.0 | 70.70505 (07052117) | 70.13439 (07052117) | 65.38062 (07052117) | 57.46714 (07052117) | 47.79399 (07052117) |
| 3765480.0 | 80.12010 (07052117) | 78.29162 (07052117) | 71.56571 (07052117) | 61.42710 (07052117) | 53.35029 (11111416) |
| 3765460.0 | 91.47615 (07052117) | 87.82962 (07052117) | 78.46648 (07052117) | 65.50067 (07052117) | 63.30659 (11111416) |

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3013 ***
INCLUDING SOURCE(S): 3013 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 50.48950 | (07052117) | 382071.00 | 3765565.00 | 50.48950 | (07052117) |
| 382071.00 | 3765565.00 | 50.48950 | (07052117) | 382071.00 | 3765565.00 | 50.48950 | (07052117) |
| 382071.00 | 3765565.00 | 50.48950 | (07052117) | 382071.00 | 3765565.00 | 50.48950 | (07052117) |
| 382071.00 | 3765565.00 | 50.48950 | (07052117) | 382051.00 | 3765530.00 | 59.09414 | (10100517) |
| 382051.00 | 3765530.00 | 59.09414 | (10100517) | 382051.00 | 3765530.00 | 59.09414 | (10100517) |
| 382051.00 | 3765530.00 | 59.09414 | (10100517) | 382051.00 | 3765530.00 | 59.09414 | (10100517) |
| 382051.00 | 3765530.00 | 59.09414 | (10100517) | 382051.00 | 3765530.00 | 59.09414 | (10100517) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3014 ***
INCLUDING SOURCE(S): 3014 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 \| | 29.70273 (11091107) | 29.81135 (11051408) | 31.94755 (11060807) | 34.41866 (11013010) | 37.63533 (11013010) |
| 3765620.0 \| | 33.25374 (11091107) | 32.86124 (06031715) | 34.61953 (11060807) | 37.72095 (11013010) | 41.60992 (11013010) |
| 3765600.0 \| | 37.06273 (11091107) | 36.84888 (06031715) | 38.28290 (06090401) | 41.52647 (11013010) | 46.27645 (11013010) |
| 3765580.0 \| | 41.06457 (11091107) | 41.80394 (06090401) | 43.77511 (06090401) | 45.94997 (11013010) | 51.79804 (11013010) |
| 3765560.0 \| | 45.14550 (11091107) | 47.89624 (06090401) | 50.57764 (06090401) | 52.76041 (06090401) | 58.72322 (10100517) |
| 3765540.0 \| | 51.36573 (06090401) | 55.41987 (06090401) | 59.15742 (06090401) | 62.28445 (06090401) | 67.92689 (10100517) |
| 3765520.0 \| | 59.17812 (06090401) | 64.79555 (06090401) | 70.15706 (06090401) | 74.74471 (06090401) | 79.57511 (10100517) |
| 3765500.0 \| | 71.79569 (09052507) | 76.64129 (06090401) | 84.54632 (06090401) | 91.58616 (06090401) | 96.85595 (06090401) |
| 3765480.0 \| | 84.86739 (09052507) | 91.64564 (06090401) | 103.65581 (06090401) | 115.02175 (06090401) | 123.88953 (06090401) |
| 3765460.0 \| | 96.33496 (09052507) | 110.71989 (06090401) | 129.60275 (06090401) | 148.83159 (06090401) | 165.00062 (06090401) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3014 ***

INCLUDING SOURCE(S): 3014 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 42.74428 (10100517) | 48.15652 (10100517) | 51.38851 (10100517) | 52.49963 (07052117) | 51.10775 (07052117) |
| 3765620.0 | 47.90167 (10100517) | 53.85119 (10100517) | 57.11834 (10100517) | 57.88675 (07052117) | 55.60739 (07052117) |
| 3765600.0 | 54.06226 (10100517) | 60.63113 (10100517) | 63.85568 (07052117) | 64.06664 (07052117) | 60.63335 (07052117) |
| 3765580.0 | 61.50046 (10100517) | 68.76284 (10100517) | 71.93173 (07052117) | 71.21810 (07052117) | 66.21494 (07052117) |
| 3765560.0 | 70.62336 (10100517) | 78.63871 (10100517) | 81.54363 (07052117) | 79.50874 (07052117) | 72.42830 (07052117) |
| 3765540.0 | 81.92319 (10100517) | 90.82344 (10100517) | 93.11283 (07052117) | 89.13514 (07052117) | 79.31681 (07052117) |
| 3765520.0 | 96.24494 (10100517) | 106.00603 (10100517) | 107.14092 (07052117) | 100.37602 (07052117) | 86.89761 (07052117) |
| 3765500.0 | 114.74601 (10100517) | 125.36097 (10100517) | 124.64527 (07052117) | 113.69251 (07052117) | 95.19714 (07052117) |
| 3765480.0 | 139.68879 (10100517) | 151.05803 (10100517) | 147.15988 (07052117) | 129.89037 (07052117) | 116.92727 (07040816) |
| 3765460.0 | 174.99645 (10100517) | 186.68469 (10100517) | 177.00151 (07052117) | 157.09131 (07040816) | 169.25828 (07040816) |



*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3014 ***
INCLUDING SOURCE(S): 3014 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 75.10941 | (10100517) | 382071.00 | 3765565.00 | 75.10941 | (10100517) |
| 382071.00 | 3765565.00 | 75.10941 | (10100517) | 382071.00 | 3765565.00 | 75.10941 | (10100517) |
| 382071.00 | 3765565.00 | 75.10941 | (10100517) | 382071.00 | 3765565.00 | 75.10941 | (10100517) |
| 382071.00 | 3765565.00 | 75.10941 | (10100517) | 382051.00 | 3765530.00 | 86.66105 | (10100517) |
| 382051.00 | 3765530.00 | 86.66105 | (10100517) | 382051.00 | 3765530.00 | 86.66105 | (10100517) |
| 382051.00 | 3765530.00 | 86.66105 | (10100517) | 382051.00 | 3765530.00 | 86.66105 | (10100517) |
| 382051.00 | 3765530.00 | 86.66105 | (10100517) | 382051.00 | 3765530.00 | 86.66105 | (10100517) |



*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3015 ***
INCLUDING SOURCE(S): 3015 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 44.25919 (09052507) | 43.24565 (06090401) | 46.48516 (06090401) | 49.56649 (06090401) | 52.31770 (06090401) |
| 3765620.0 | 52.17089 (09052507) | 51.24864 (09052507) | 53.34502 (06090401) | 57.57233 (06090401) | 61.42735 (06090401) |
| 3765600.0 | 59.83300 (09052507) | 61.54092 (09052507) | 61.72057 (06090401) | 67.62474 (06090401) | 73.20829 (06090506) |
| 3765580.0 | 66.72836 (09052507) | 71.74618 (09052507) | 73.95918 (09052507) | 80.43244 (06090506) | 88.74815 (06090401) |
| 3765560.0 | 71.11605 (09052507) | 80.62868 (09052507) | 87.98285 (09052507) | 96.82866 (06090401) | 109.69272 (06090401) |
| 3765540.0 | 73.06225 (09052507) | 86.56938 (09052507) | 100.46097 (09052507) | 117.97497 (06090401) | 138.44475 (06090401) |
| 3765520.0 | 79.57702 (06090401) | 96.02381 (06090401) | 117.37652 (06090401) | 144.73401 (06090401) | 178.63998 (06090401) |
| 3765500.0 | 87.38458 (06090401) | 108.11543 (06090401) | 136.84375 (06090401) | 177.25992 (06090401) | 233.99372 (06090401) |
| 3765480.0 | 94.08632 (06090401) | 119.03956 (06090401) | 155.77910 (06090506) | 212.58264 (06090401) | 304.65633 (06090401) |
| 3765460.0 | 100.89054 (07042007) | 126.83774 (06090506) | 170.17981 (06090506) | 242.30301 (06090401) | 375.84062 (06090401) |

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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3015 ***
INCLUDING SOURCE(S): 3015 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 54.53557 (06090401) | 62.73714 (10100517) | 74.32647 (10100517) | 81.49210 (10100517) | 83.34392 (07052117) |
| 3765620.0 | 64.59766 (06090401) | 72.79308 (10100517) | 86.35015 (10100517) | 94.08776 (10100517) | 94.98181 (07052117) |
| 3765600.0 | 77.90817 (06090401) | 85.54934 (10100517) | 101.55912 (10100517) | 109.75809 (10100517) | 109.04739 (07052117) |
| 3765580.0 | 96.01739 (06090401) | 102.08904 (10100517) | 121.28485 (10100517) | 129.70979 (10100517) | 126.43112 (07052117) |
| 3765560.0 | 121.60162 (06090401) | 130.48357 (06090401) | 147.94932 (10100517) | 156.14783 (10100517) | 148.56101 (07052117) |
| 3765540.0 | 159.02675 (06090401) | 175.67862 (06090401) | 185.68278 (10100517) | 192.55140 (07052117) | 177.45793 (07052117) |
| 3765520.0 | 216.75419 (06090401) | 250.88424 (06090401) | 267.50823 (06090506) | 257.54466 (06090401) | 244.85401 (07040816) |
| 3765500.0 | 309.27735 (06090401) | 390.69268 (06090401) | 436.75783 (06090401) | 408.96948 (06090506) | 381.95878 (07040816) |
| 3765480.0 | 458.15088 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 554.20637 (07040816) |
| 3765460.0 | 664.08310 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3015 ***
INCLUDING SOURCE(S): 3015 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 121.14886 | (06090401) | 382071.00 | 3765565.00 | 121.14886 | (06090401) |
| 382071.00 | 3765565.00 | 121.14886 | (06090401) | 382071.00 | 3765565.00 | 121.14886 | (06090401) |
| 382071.00 | 3765565.00 | 121.14886 | (06090401) | 382071.00 | 3765565.00 | 121.14886 | (06090401) |
| 382071.00 | 3765565.00 | 121.14886 | (06090401) | 382051.00 | 3765530.00 | 180.51453 | (06090401) |
| 382051.00 | 3765530.00 | 180.51453 | (06090401) | 382051.00 | 3765530.00 | 180.51453 | (06090401) |
| 382051.00 | 3765530.00 | 180.51453 | (06090401) | 382051.00 | 3765530.00 | 180.51453 | (06090401) |
| 382051.00 | 3765530.00 | 180.51453 | (06090401) | 382051.00 | 3765530.00 | 180.51453 | (06090401) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3016 ***
INCLUDING SOURCE(S): 3016 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 59.14226 (09012717) | 72.68116 (09052507) | 87.26098 (09052507) | 98.34671 (09052507) | 105.10919 (09052507) |
| 3765620.0 | 69.92126 (09012717) | 75.78606 (09012717) | 86.53927 (09052507) | 105.91274 (09052507) | 120.34247 (09052507) |
| 3765600.0 | 77.64452 (09012717) | 87.37819 (09012717) | 96.25562 (09012717) | 104.77762 (09052507) | 131.14328 (09052507) |
| 3765580.0 | 79.46527 (09012717) | 93.35670 (09012717) | 108.04640 (09012717) | 123.44814 (09012717) | 146.24660 (06090401) |
| 3765560.0 | 77.18736 (09121516) | 89.73529 (09121516) | 108.26449 (09012717) | 128.55745 (09012717) | 166.37125 (06090401) |
| 3765540.0 | 83.78387 (07042007) | 101.39524 (07042007) | 124.07217 (07042007) | 154.18681 (07042007) | 190.63876 (07042007) |
| 3765520.0 | 111.87353 (07042007) | 134.50438 (07042007) | 163.73970 (07042007) | 198.15913 (07042007) | 244.75222 (07042007) |
| 3765500.0 | 130.30076 (07042007) | 155.00424 (07042007) | 184.78211 (07042007) | 217.53979 (07042007) | 260.35565 (07042007) |
| 3765480.0 | 131.08489 (07042007) | 152.13127 (07042007) | 174.55942 (07042007) | 200.82415 (07042007) | 228.94395 (07042007) |
| 3765460.0 | 117.21936 (07042007) | 131.07583 (07042007) | 144.22598 (07042007) | 156.54314 (07042007) | 168.26897 (07042007) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3016 ***
INCLUDING SOURCE(S): 3016 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 106.07526 (09052507) | 117.07073 (06090401) | 130.22435 (06090401) | 139.80419 (06090401) | 157.43697 (10100517) |
| 3765620.0 | 128.95957 (09052507) | 149.42545 (06090401) | 172.76745 (06090401) | 191.06919 (06090401) | 198.82642 (10100517) |
| 3765600.0 | 156.09248 (06090506) | 195.21907 (06090401) | 239.82714 (06090506) | 279.33077 (06090401) | 295.86776 (06090401) |
| 3765580.0 | 192.39777 (06090401) | 259.22032 (06090401) | 350.88394 (06090401) | 451.22788 (06090401) | 500.38300 (06090401) |
| 3765560.0 | 231.16721 (06090401) | 340.97777 (06090401) | 535.82417 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765540.0 | 261.84814 (06090401) | 418.68127 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765520.0 | 305.46854 (07042007) | 442.48470 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765500.0 | 313.39733 (07042007) | 390.83620 (06090401) | 0.00000 (00000000) | 0.00000 (00000000) | 0.00000 (00000000) |
| 3765480.0 | 260.51151 (07042007) | 306.60965 (06090401) | 450.89561 (06090401) | 644.23874 (06090401) | 0.00000 (00000000) |
| 3765460.0 | 179.30130 (07042007) | 230.91470 (06090401) | 298.93637 (06090401) | 366.41639 (06090401) | 397.04551 (06090401) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3016 ***
INCLUDING SOURCE(S): 3016 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 301.45536 | (06090401) | 382071.00 | 3765565.00 | 301.45536 | (06090401) |
| 382071.00 | 3765565.00 | 301.45536 | (06090401) | 382071.00 | 3765565.00 | 301.45536 | (06090401) |
| 382071.00 | 3765565.00 | 301.45536 | (06090401) | 382071.00 | 3765565.00 | 301.45536 | (06090401) |
| 382071.00 | 3765565.00 | 301.45536 | (06090401) | 382051.00 | 3765530.00 | 265.31005 | (07042007) |
| 382051.00 | 3765530.00 | 265.31005 | (07042007) | 382051.00 | 3765530.00 | 265.31005 | (07042007) |
| 382051.00 | 3765530.00 | 265.31005 | (07042007) | 382051.00 | 3765530.00 | 265.31005 | (07042007) |
| 382051.00 | 3765530.00 | 265.31005 | (07042007) | 382051.00 | 3765530.00 | 265.31005 | (07042007) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3017 ***
INCLUDING SOURCE(S): 3017 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

Y-COORD | X-COORD (METERS)

| (METERS) | 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 59.87516 (09121516) | 68.71786 (09121516) | 79.23197 (09121516) | 91.61088 (09121516) | 107.34915 (09121516) |
| 3765620.0 | 64.95711 (07042007) | 76.62591 (07042007) | 90.70790 (07042007) | 108.80249 (07042007) | 130.83306 (07042007) |
| 3765600.0 | 83.99735 (07042007) | 98.15490 (07042007) | 114.70235 (07042007) | 134.45775 (07042007) | 159.90015 (07042007) |
| 3765580.0 | 97.17823 (07042007) | 111.89642 (07042007) | 128.32390 (07042007) | 147.15674 (07042007) | 168.32938 (07042007) |
| 3765560.0 | 100.30411 (07042007) | 112.78358 (07042007) | 125.81483 (07042007) | 138.31166 (07042007) | 154.43053 (07042007) |
| 3765540.0 | 93.91649 (07042007) | 102.51963 (07042007) | 110.72053 (07042007) | 118.74183 (07042007) | 123.67088 (07042007) |
| 3765520.0 | 79.34972 (07042007) | 83.51984 (07042007) | 87.18225 (07042007) | 89.22360 (07042007) | 90.69115 (07042007) |
| 3765500.0 | 61.43403 (07042007) | 62.16976 (07042007) | 64.54476 (09042707) | 70.14329 (09052707) | 76.83694 (09052707) |
| 3765480.0 | 49.54078 (09042707) | 53.80225 (09042707) | 58.30193 (09052707) | 62.94755 (09052707) | 68.27969 (06031716) |
| 3765460.0 | 44.64653 (09042707) | 48.70118 (09052707) | 51.79967 (09052707) | 56.22687 (06031716) | 69.62655 (06031716) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3017 ***
INCLUDING SOURCE(S): 3017 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 134.58269 (06090401) | 180.99645 (06090401) | 257.09217 (06090401) | 392.23621 (06090401) | 648.48535 (06090401) |
| 3765620.0 | 160.37923 (07042007) | 199.34914 (07042007) | 289.62058 (06090506) | 481.29813 (06090401) | 0.00000 (00000000) |
| 3765600.0 | 188.39914 (07042007) | 231.66479 (07042007) | 293.04499 (06090401) | 491.71298 (06090401) | 0.00000 (00000000) |
| 3765580.0 | 188.06316 (07042007) | 221.49006 (07042007) | 265.20235 (06090401) | 412.90249 (06090401) | 0.00000 (00000000) |
| 3765560.0 | 169.18664 (07042007) | 182.97645 (07042007) | 221.79665 (06090401) | 311.49693 (06090401) | 444.33675 (06090401) |
| 3765540.0 | 129.59027 (07042007) | 139.93287 (06090401) | 178.67316 (06090401) | 229.63002 (06090401) | 289.68479 (06090401) |
| 3765520.0 | 97.26432 (06090401) | 117.64889 (06090401) | 142.77243 (06090401) | 171.91493 (06090401) | 201.46591 (06090401) |
| 3765500.0 | 84.18523 (06090401) | 98.54149 (06090401) | 114.88705 (06090401) | 132.16062 (06090401) | 148.02608 (06090401) |
| 3765480.0 | 82.75504 (06031716) | 93.79364 (06031716) | 99.75151 (06031716) | 104.35764 (06090401) | 113.55218 (06090401) |
| 3765460.0 | 81.56396 (06031716) | 89.19185 (06031716) | 93.57423 (09010316) | 91.13850 (09010316) | 90.06733 (06090401) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3017 ***
INCLUDING SOURCE(S): 3017 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 193.37893 | (07042007) | 382071.00 | 3765565.00 | 193.37893 | (07042007) |
| 382071.00 | 3765565.00 | 193.37893 | (07042007) | 382071.00 | 3765565.00 | 193.37893 | (07042007) |
| 382071.00 | 3765565.00 | 193.37893 | (07042007) | 382071.00 | 3765565.00 | 193.37893 | (07042007) |
| 382071.00 | 3765565.00 | 193.37893 | (07042007) | 382051.00 | 3765530.00 | 109.48712 | (07042007) |
| 382051.00 | 3765530.00 | 109.48712 | (07042007) | 382051.00 | 3765530.00 | 109.48712 | (07042007) |
| 382051.00 | 3765530.00 | 109.48712 | (07042007) | 382051.00 | 3765530.00 | 109.48712 | (07042007) |
| 382051.00 | 3765530.00 | 109.48712 | (07042007) | 382051.00 | 3765530.00 | 109.48712 | (07042007) |

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**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3018 ***
INCLUDING SOURCE(S): 3018 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 72.32382 (07042007) | 80.96002 (07042007) | 90.24156 (07042007) | 99.75193 (07042007) | 111.02014 (07042007) |
| 3765620.0 | 72.04616 (07042007) | 79.02853 (07042007) | 85.48664 (07042007) | 92.83580 (07042007) | 99.50044 (07042007) |
| 3765600.0 | 66.62005 (07042007) | 70.94169 (07042007) | 74.79124 (07042007) | 78.35006 (07042007) | 82.07867 (07042007) |
| 3765580.0 | 57.02915 (07042007) | 59.09150 (07042007) | 60.57669 (07042007) | 61.60628 (07042007) | 62.10956 (07042007) |
| 3765560.0 | 45.24197 (07042007) | 45.46792 (07042007) | 45.22128 (09042707) | 47.95080 (09042707) | 52.60863 (09052707) |
| 3765540.0 | 37.20239 (09042707) | 40.13355 (09042707) | 42.23429 (09042707) | 45.20838 (09052707) | 47.68139 (09052707) |
| 3765520.0 | 35.11394 (09042707) | 36.54202 (09042707) | 38.99077 (09052707) | 40.86488 (09052707) | 41.81974 (09052707) |
| 3765500.0 | 31.62765 (09042707) | 33.76254 (09052707) | 35.23687 (09052707) | 35.60616 (09052707) | 40.91547 (06031716) |
| 3765480.0 | 29.09416 (09052707) | 30.16846 (09052707) | 30.38958 (09052707) | 35.37907 (06031716) | 41.81227 (06031716) |
| 3765460.0 | 25.92642 (09052707) | 26.05838 (09052707) | 30.55669 (06031716) | 36.52617 (06031716) | 41.85414 (06031716) |

♀*** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
PAGE 215
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3018 ***
INCLUDING SOURCE(S): 3018 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

| | | | | | |
|---|---|---|---|---|---|
| 3765640.0 \| | 124.86129 (07042007) | 138.42087 (07042007) | 155.27607 (07042007) | 174.18396 (07042007) | 200.14246 (07042007) |
| 3765620.0 \| | 107.00013 (07042007) | 114.23228 (07042007) | 122.60141 (07042007) | 132.93601 (07042007) | 162.97139 (06090401) |
| 3765600.0 \| | 84.63459 (07042007) | 87.92619 (07042007) | 90.69896 (06090401) | 109.65986 (06090401) | 133.54348 (06090401) |
| 3765580.0 \| | 61.79612 (07042007) | 68.46853 (09052707) | 79.54948 (06090401) | 93.33050 (06090401) | 109.45976 (06090401) |
| 3765560.0 \| | 56.88648 (09052707) | 60.75195 (06090401) | 69.48179 (06090401) | 79.46673 (06031716) | 90.43698 (06090401) |
| 3765540.0 \| | 49.29148 (09052707) | 55.39748 (06031716) | 64.19124 (06031716) | 72.64407 (06031716) | 77.78410 (06031716) |
| 3765520.0 \| | 47.24955 (06031716) | 54.15837 (06031716) | 60.01303 (06031716) | 64.96025 (06031716) | 67.77341 (09010316) |
| 3765500.0 \| | 47.76151 (06031716) | 52.72337 (06031716) | 55.63845 (06031716) | 57.34209 (09010316) | 58.89688 (09010316) |
| 3765480.0 \| | 46.99252 (06031716) | 50.59347 (06031716) | 52.29195 (06031716) | 53.69709 (09010316) | 52.08942 (09010316) |
| 3765460.0 \| | 46.15698 (06031716) | 48.58792 (06031716) | 50.18822 (09010316) | 50.04616 (09010316) | 47.51493 (09010316) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
PAGE 216
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3018 ***
INCLUDING SOURCE(S): 3018 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 61.75099 | (09052707) | 382071.00 | 3765565.00 | 61.75099 | (09052707) |
| 382071.00 | 3765565.00 | 61.75099 | (09052707) | 382071.00 | 3765565.00 | 61.75099 | (09052707) |
| 382071.00 | 3765565.00 | 61.75099 | (09052707) | 382071.00 | 3765565.00 | 61.75099 | (09052707) |
| 382071.00 | 3765565.00 | 61.75099 | (09052707) | 382051.00 | 3765530.00 | 45.32809 | (09052707) |
| 382051.00 | 3765530.00 | 45.32809 | (09052707) | 382051.00 | 3765530.00 | 45.32809 | (09052707) |
| 382051.00 | 3765530.00 | 45.32809 | (09052707) | 382051.00 | 3765530.00 | 45.32809 | (09052707) |
| 382051.00 | 3765530.00 | 45.32809 | (09052707) | 382051.00 | 3765530.00 | 45.32809 | (09052707) |

♀ *** AERMOD - VERSION 15181 *** *** USC Student Housing HRA *** 11/02/16
*** AERMET - VERSION 14134 *** *** *** 15:31:34
PAGE 217
**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3019 ***
INCLUDING SOURCE(S): 3019 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD \| (METERS) \| | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 \| | 45.06296 (07042007) | 46.62510 (07042007) | 47.84350 (07042007) | 48.63479 (07042007) | 49.22827 (07042007) |

| | | | | | |
|---|---|---|---|---|---|
| 3765620.0 | 36.82298 (07042007) | 37.12136 (07042007) | 37.02385 (07042007) | 37.69157 (09042707) | 40.41411 (09042707) |
| 3765600.0 | 28.69871 (09042707) | 31.38989 (09042707) | 33.69184 (09042707) | 35.54080 (09042707) | 37.01878 (09042707) |
| 3765580.0 | 28.52184 (09042707) | 30.30199 (09042707) | 31.54291 (09042707) | 32.45412 (09052707) | 34.52667 (09052707) |
| 3765560.0 | 26.95261 (09042707) | 27.79713 (09042707) | 28.54626 (09052707) | 29.94552 (09052707) | 30.92038 (09052707) |
| 3765540.0 | 24.47438 (09042707) | 25.24600 (09052707) | 26.30940 (09052707) | 26.85597 (09052707) | 26.64608 (09052707) |
| 3765520.0 | 22.31642 (09052707) | 23.08906 (09052707) | 23.43082 (09052707) | 23.17418 (09052707) | 27.12933 (06031716) |
| 3765500.0 | 20.35636 (09052707) | 20.53641 (09052707) | 20.34452 (07042217) | 23.89545 (06031716) | 28.24145 (06031716) |
| 3765480.0 | 17.99973 (09052707) | 17.93483 (07042217) | 21.04029 (06031716) | 25.05756 (06031716) | 28.74847 (06031716) |
| 3765460.0 | 15.87367 (07042217) | 18.56842 (06031716) | 22.19453 (06031716) | 25.69798 (06031716) | 28.79066 (06031716) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3019 ***
INCLUDING SOURCE(S): 3019 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 49.53940 (07042007) | 50.45287 (09042707) | 56.04457 (09052707) | 61.79176 (09052707) | 66.09178 (09052707) |
| 3765620.0 | 42.80442 (09042707) | 46.76062 (09052707) | 50.47628 (09052707) | 53.31981 (09052707) | 61.13437 (06031716) |
| 3765600.0 | 39.86648 (09052707) | 42.33192 (09052707) | 43.56453 (09052707) | 49.81344 (06031716) | 59.40174 (06031716) |
| 3765580.0 | 35.74532 (09052707) | 36.51811 (09052707) | 42.01053 (06031716) | 49.13971 (06031716) | 54.81197 (06031716) |
| 3765560.0 | 31.06703 (09052707) | 35.58743 (06031716) | 41.65948 (06031716) | 47.21099 (06031716) | 50.09873 (06031716) |
| 3765540.0 | 30.80641 (06031716) | 36.21058 (06031716) | 40.59502 (06031716) | 43.96528 (06031716) | 45.57335 (06031716) |
| 3765520.0 | 31.80371 (06031716) | 35.73460 (06031716) | 38.74834 (06031716) | 40.65506 (06031716) | 41.60428 (09010316) |
| 3765500.0 | 32.10398 (06031716) | 35.03400 (06031716) | 36.94313 (06031716) | 37.70714 (06031716) | 39.01894 (09010316) |
| 3765480.0 | 31.75731 (06031716) | 33.93386 (06031716) | 35.11310 (06031716) | 36.00438 (09010316) | 36.07896 (09010316) |
| 3765460.0 | 31.28957 (06031716) | 32.80680 (06031716) | 33.52814 (09010316) | 34.25925 (09010316) | 33.74501 (09010316) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3019 ***
INCLUDING SOURCE(S): 3019 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 34.51734 | (06031716) | 382071.00 | 3765565.00 | 34.51734 | (06031716) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 34.51734 | (06031716) | 382071.00 | 3765565.00 | 34.51734 | (06031716) |
| 382071.00 | 3765565.00 | 34.51734 | (06031716) | 382071.00 | 3765565.00 | 34.51734 | (06031716) |
| 382071.00 | 3765565.00 | 34.51734 | (06031716) | 382051.00 | 3765530.00 | 30.55744 | (06031716) |
| 382051.00 | 3765530.00 | 30.55744 | (06031716) | 382051.00 | 3765530.00 | 30.55744 | (06031716) |
| 382051.00 | 3765530.00 | 30.55744 | (06031716) | 382051.00 | 3765530.00 | 30.55744 | (06031716) |
| 382051.00 | 3765530.00 | 30.55744 | (06031716) | 382051.00 | 3765530.00 | 30.55744 | (06031716) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3020 ***
INCLUDING SOURCE(S): 3020 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 381954.00 | 381974.00 | 381994.00 | 382014.00 | 382034.00 |
|---|---|---|---|---|---|
| 3765640.0 | 20.92009 (09042707) | 22.20713 (09042707) | 23.15011 (09042707) | 23.77316 (09042707) | 25.66541 (09052707) |
| 3765620.0 | 20.37558 (09042707) | 21.16667 (09042707) | 21.44585 (09042707) | 22.75403 (09052707) | 24.14808 (09052707) |
| 3765600.0 | 19.29049 (09042707) | 19.51209 (09042707) | 20.42500 (09052707) | 21.29008 (09052707) | 22.03128 (09052707) |
| 3765580.0 | 17.70650 (09052707) | 18.53930 (09052707) | 19.07506 (09052707) | 19.36945 (09052707) | 19.55009 (09052707) |
| 3765560.0 | 16.74557 (09052707) | 17.17036 (09052707) | 17.29481 (09052707) | 17.18009 (09052707) | 17.83479 (06031716) |
| 3765540.0 | 15.48215 (09052707) | 15.55498 (09052707) | 15.34938 (09052707) | 15.83405 (06031716) | 18.64939 (06031716) |
| 3765520.0 | 13.95412 (09052707) | 13.83919 (07042217) | 14.30500 (06031716) | 16.61751 (06031716) | 19.15215 (06031716) |
| 3765500.0 | 12.53863 (07042217) | 12.91817 (06031716) | 15.20596 (06031716) | 17.29597 (06031716) | 19.35333 (06031716) |
| 3765480.0 | 11.62611 (06090401) | 13.73528 (06031716) | 15.81146 (06031716) | 17.74767 (06031716) | 19.29918 (06031716) |
| 3765460.0 | 12.38703 (06031716) | 14.39542 (06031716) | 16.30465 (06031716) | 17.96642 (06031716) | 19.29924 (06031716) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3020 ***
INCLUDING SOURCE(S): 3020 ,

*** NETWORK ID: C1001 ; NETWORK TYPE: GRIDCART ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) 382054.00 | 382074.00 | 382094.00 | 382114.00 | 382134.00 |
|---|---|---|---|---|---|
| 3765640.0 | 27.55228 (09052707) | 29.09940 (09052707) | 30.14016 (09052707) | 31.01302 (06090401) | 37.06154 (06031716) |
| 3765620.0 | 25.22921 (09052707) | 25.87612 (09052707) | 26.61158 (06031716) | 31.71691 (06031716) | 36.73690 (06031716) |

| | | | | | |
|---|---|---|---|---|---|
| 3765600.0 \| | 22.40648 (09052707) | 23.10060 (06031716) | 27.43355 (06031716) | 31.74081 (06031716) | 35.67134 (06031716) |
| 3765580.0 \| | 20.22463 (06031716) | 23.94923 (06031716) | 27.68205 (06031716) | 31.15258 (06031716) | 34.03387 (06031716) |
| 3765560.0 \| | 21.06622 (06031716) | 24.33152 (06031716) | 27.41833 (06031716) | 30.06748 (06031716) | 31.99764 (06031716) |
| 3765540.0 \| | 21.52515 (06031716) | 24.28485 (06031716) | 26.71939 (06031716) | 28.60228 (06031716) | 29.70911 (06031716) |
| 3765520.0 \| | 21.62632 (06031716) | 23.86044 (06031716) | 25.66934 (06031716) | 26.86569 (06031716) | 27.41882 (09010316) |
| 3765500.0 \| | 21.40395 (06031716) | 23.12386 (06031716) | 24.35685 (06031716) | 24.95925 (06031716) | 25.66951 (09010316) |
| 3765480.0 \| | 20.90298 (06031716) | 22.13957 (06031716) | 22.86164 (06031716) | 23.35306 (09010316) | 23.85374 (09010316) |
| 3765460.0 \| | 20.32145 (06031716) | 20.96982 (06031716) | 21.25285 (06031716) | 21.93856 (09010316) | 22.02779 (09010316) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 3020 ***
INCLUDING SOURCE(S): 3020 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 382071.00 | 3765565.00 | 23.77352 | (06031716) | 382071.00 | 3765565.00 | 23.77352 | (06031716) |
| 382071.00 | 3765565.00 | 23.77352 | (06031716) | 382071.00 | 3765565.00 | 23.77352 | (06031716) |
| 382071.00 | 3765565.00 | 23.77352 | (06031716) | 382071.00 | 3765565.00 | 23.77352 | (06031716) |
| 382071.00 | 3765565.00 | 23.77352 | (06031716) | 382051.00 | 3765530.00 | 21.22357 | (06031716) |
| 382051.00 | 3765530.00 | 21.22357 | (06031716) | 382051.00 | 3765530.00 | 21.22357 | (06031716) |
| 382051.00 | 3765530.00 | 21.22357 | (06031716) | 382051.00 | 3765530.00 | 21.22357 | (06031716) |
| 382051.00 | 3765530.00 | 21.22357 | (06031716) | 382051.00 | 3765530.00 | 21.22357 | (06031716) |



**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE SUMMARY OF MAXIMUM PERIOD ( 43800 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| GROUP ID | | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) | NETWORK OF TYPE | GRID-ID |
|---|---|---|---|---|---|
| 1001 | 1ST HIGHEST VALUE IS | 50.49865 | AT ( 382074.00, 3765640.00, 55.70, 55.70, 0.00) | GC | C1001 |
| | 2ND HIGHEST VALUE IS | 48.63070 | AT ( 382034.00, 3765620.00, 56.10, 56.10, 0.00) | GC | C1001 |
| | 3RD HIGHEST VALUE IS | 48.37861 | AT ( 382014.00, 3765600.00, 56.40, 56.40, 0.00) | GC | C1001 |
| | 4TH HIGHEST VALUE IS | 46.64033 | AT ( 381994.00, 3765480.00, 57.30, 57.30, 0.00) | GC | C1001 |
| | 5TH HIGHEST VALUE IS | 44.98181 | AT ( 382054.00, 3765640.00, 56.00, 56.00, 0.00) | GC | C1001 |
| | 6TH HIGHEST VALUE IS | 44.16563 | AT ( 381994.00, 3765580.00, 56.90, 56.90, 0.00) | GC | C1001 |
| | 7TH HIGHEST VALUE IS | 41.56310 | AT ( 381994.00, 3765460.00, 57.50, 57.50, 0.00) | GC | C1001 |

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      8TH HIGHEST VALUE IS     40.22304 AT (  382014.00,  3765620.00,    56.50,    56.50,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS     39.62407 AT (  381974.00,  3765520.00,    57.40,    57.40,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS     39.22107 AT (  381974.00,  3765540.00,    57.40,    57.40,    0.00)  GC  C1001

1002     1ST HIGHEST VALUE IS     33.26869 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS     32.86383 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS     32.65908 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS     31.48831 AT (  381974.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS     31.24284 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS     29.37446 AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS     29.25190 AT (  382074.00,  3765460.00,    56.50,    56.50,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS     26.94611 AT (  382094.00,  3765460.00,    56.40,    56.40,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS     26.71284 AT (  382014.00,  3765480.00,    57.00,    57.00,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS     26.41386 AT (  381994.00,  3765480.00,    57.30,    57.30,    0.00)  GC  C1001

1003     1ST HIGHEST VALUE IS      7.21497 AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS      7.12020 AT (  381974.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS      6.98982 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS      6.82966 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS      6.64607 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS      6.59712 AT (  381954.00,  3765480.00,    57.70,    57.70,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS      6.51877 AT (  381974.00,  3765480.00,    57.60,    57.60,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS      6.44563 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS      6.41015 AT (  381994.00,  3765480.00,    57.30,    57.30,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS      6.27726 AT (  382014.00,  3765480.00,    57.00,    57.00,    0.00)  GC  C1001

1004     1ST HIGHEST VALUE IS      3.16413 AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS      3.11439 AT (  381974.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS      3.05947 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS      3.00041 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS      2.99816 AT (  381954.00,  3765480.00,    57.70,    57.70,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS      2.95368 AT (  381974.00,  3765480.00,    57.60,    57.60,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS      2.93827 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS      2.90440 AT (  381994.00,  3765480.00,    57.30,    57.30,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS      2.87409 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS      2.85155 AT (  382014.00,  3765480.00,    57.00,    57.00,    0.00)  GC  C1001
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                   ***       11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                   ***       15:31:34
                                                                                      PAGE 224
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                          *** THE SUMMARY OF MAXIMUM PERIOD ( 43800 HRS) RESULTS ***


                         ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

                                                                    NETWORK
GROUP ID                 AVERAGE CONC            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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1005    1ST HIGHEST VALUE IS    43.15349 AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS    35.83373 AT (  382114.00,  3765640.00,    55.30,    55.30,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS    35.45219 AT (  382134.00,  3765620.00,    55.00,    55.00,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS    30.47317 AT (  382114.00,  3765620.00,    55.20,    55.20,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS    29.89326 AT (  382094.00,  3765640.00,    55.50,    55.50,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS    29.36889 AT (  382134.00,  3765600.00,    55.00,    55.00,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS    26.16904 AT (  382094.00,  3765620.00,    55.30,    55.30,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS    25.96159 AT (  382114.00,  3765600.00,    55.00,    55.00,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS    25.16888 AT (  382074.00,  3765640.00,    55.70,    55.70,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS    24.60631 AT (  382134.00,  3765580.00,    54.80,    54.80,    0.00)  GC  C1001

1006    1ST HIGHEST VALUE IS     7.01774 AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS     6.68351 AT (  382114.00,  3765640.00,    55.30,    55.30,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS     6.48625 AT (  382134.00,  3765620.00,    55.00,    55.00,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS     6.35314 AT (  382094.00,  3765640.00,    55.50,    55.50,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS     6.20423 AT (  382114.00,  3765620.00,    55.20,    55.20,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS     6.03047 AT (  382074.00,  3765640.00,    55.70,    55.70,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS     6.01087 AT (  382134.00,  3765600.00,    55.00,    55.00,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS     5.92092 AT (  382094.00,  3765620.00,    55.30,    55.30,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS     5.76807 AT (  382114.00,  3765600.00,    55.00,    55.00,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS     5.71989 AT (  382054.00,  3765640.00,    56.00,    56.00,    0.00)  GC  C1001

1007    1ST HIGHEST VALUE IS     3.13514 AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS     3.07479 AT (  382114.00,  3765640.00,    55.30,    55.30,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS     3.01127 AT (  382094.00,  3765640.00,    55.50,    55.50,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS     2.96970 AT (  382134.00,  3765620.00,    55.00,    55.00,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS     2.94517 AT (  382074.00,  3765640.00,    55.70,    55.70,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS     2.91620 AT (  382114.00,  3765620.00,    55.20,    55.20,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS     2.87750 AT (  382054.00,  3765640.00,    56.00,    56.00,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS     2.85920 AT (  382094.00,  3765620.00,    55.30,    55.30,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS     2.81771 AT (  382134.00,  3765600.00,    55.00,    55.00,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS     2.80776 AT (  382034.00,  3765640.00,    56.20,    56.20,    0.00)  GC  C1001

1008    1ST HIGHEST VALUE IS    49.85242 AT (  382114.00,  3765620.00,    55.20,    55.20,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS    48.79293 AT (  382034.00,  3765540.00,    56.00,    56.00,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS    48.12409 AT (  382074.00,  3765600.00,    55.50,    55.50,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS    47.93964 AT (  382054.00,  3765580.00,    55.60,    55.60,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS    46.93262 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS    44.36318 AT (  382094.00,  3765620.00,    55.30,    55.30,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS    43.91911 AT (  382034.00,  3765560.00,    56.10,    56.10,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS    40.52771 AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS    39.88933 AT (  382054.00,  3765600.00,    55.70,    55.70,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS    39.69692 AT (  382014.00,  3765500.00,    56.80,    56.80,    0.00)  GC  C1001
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                   ***       11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                          ***       15:31:34
                                                                                          PAGE 225
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43800 HRS) RESULTS ***
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** CONC OF OTHER IN MICROGRAMS/M**3 **

| GROUP ID | | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) | NETWORK OF TYPE | GRID-ID |
|---|---|---|---|---|---|
| 1009 | 1ST HIGHEST VALUE IS | 39.68198 | AT ( 382134.00, 3765640.00, 55.10, 55.10, 0.00) | GC | C1001 |
| | 2ND HIGHEST VALUE IS | 33.61073 | AT ( 382134.00, 3765620.00, 55.00, 55.00, 0.00) | GC | C1001 |
| | 3RD HIGHEST VALUE IS | 32.58899 | AT ( 382114.00, 3765640.00, 55.30, 55.30, 0.00) | GC | C1001 |
| | 4TH HIGHEST VALUE IS | 28.49253 | AT ( 382114.00, 3765620.00, 55.20, 55.20, 0.00) | GC | C1001 |
| | 5TH HIGHEST VALUE IS | 28.46970 | AT ( 382134.00, 3765600.00, 55.00, 55.00, 0.00) | GC | C1001 |
| | 6TH HIGHEST VALUE IS | 27.09186 | AT ( 382094.00, 3765640.00, 55.50, 55.50, 0.00) | GC | C1001 |
| | 7TH HIGHEST VALUE IS | 24.79419 | AT ( 382114.00, 3765600.00, 55.00, 55.00, 0.00) | GC | C1001 |
| | 8TH HIGHEST VALUE IS | 24.27308 | AT ( 382094.00, 3765620.00, 55.30, 55.30, 0.00) | GC | C1001 |
| | 9TH HIGHEST VALUE IS | 24.23007 | AT ( 382134.00, 3765580.00, 54.80, 54.80, 0.00) | GC | C1001 |
| | 10TH HIGHEST VALUE IS | 22.80477 | AT ( 382074.00, 3765640.00, 55.70, 55.70, 0.00) | GC | C1001 |
| 1010 | 1ST HIGHEST VALUE IS | 6.98276 | AT ( 382134.00, 3765640.00, 55.10, 55.10, 0.00) | GC | C1001 |
| | 2ND HIGHEST VALUE IS | 6.63113 | AT ( 382114.00, 3765640.00, 55.30, 55.30, 0.00) | GC | C1001 |
| | 3RD HIGHEST VALUE IS | 6.46793 | AT ( 382134.00, 3765620.00, 55.00, 55.00, 0.00) | GC | C1001 |
| | 4TH HIGHEST VALUE IS | 6.28755 | AT ( 382094.00, 3765640.00, 55.50, 55.50, 0.00) | GC | C1001 |
| | 5TH HIGHEST VALUE IS | 6.16970 | AT ( 382114.00, 3765620.00, 55.20, 55.20, 0.00) | GC | C1001 |
| | 6TH HIGHEST VALUE IS | 6.00489 | AT ( 382134.00, 3765600.00, 55.00, 55.00, 0.00) | GC | C1001 |
| | 7TH HIGHEST VALUE IS | 5.95526 | AT ( 382074.00, 3765640.00, 55.70, 55.70, 0.00) | GC | C1001 |
| | 8TH HIGHEST VALUE IS | 5.87361 | AT ( 382094.00, 3765620.00, 55.30, 55.30, 0.00) | GC | C1001 |
| | 9TH HIGHEST VALUE IS | 5.74726 | AT ( 382114.00, 3765600.00, 55.00, 55.00, 0.00) | GC | C1001 |
| | 10TH HIGHEST VALUE IS | 5.63804 | AT ( 382054.00, 3765640.00, 56.00, 56.00, 0.00) | GC | C1001 |
| 1011 | 1ST HIGHEST VALUE IS | 3.14828 | AT ( 382134.00, 3765640.00, 55.10, 55.10, 0.00) | GC | C1001 |
| | 2ND HIGHEST VALUE IS | 3.08195 | AT ( 382114.00, 3765640.00, 55.30, 55.30, 0.00) | GC | C1001 |
| | 3RD HIGHEST VALUE IS | 3.01293 | AT ( 382094.00, 3765640.00, 55.50, 55.50, 0.00) | GC | C1001 |
| | 4TH HIGHEST VALUE IS | 2.98383 | AT ( 382134.00, 3765620.00, 55.00, 55.00, 0.00) | GC | C1001 |
| | 5TH HIGHEST VALUE IS | 2.94180 | AT ( 382074.00, 3765640.00, 55.70, 55.70, 0.00) | GC | C1001 |
| | 6TH HIGHEST VALUE IS | 2.92495 | AT ( 382114.00, 3765620.00, 55.20, 55.20, 0.00) | GC | C1001 |
| | 7TH HIGHEST VALUE IS | 2.86957 | AT ( 382054.00, 3765640.00, 56.00, 56.00, 0.00) | GC | C1001 |
| | 8TH HIGHEST VALUE IS | 2.86297 | AT ( 382094.00, 3765620.00, 55.30, 55.30, 0.00) | GC | C1001 |
| | 9TH HIGHEST VALUE IS | 2.83248 | AT ( 382134.00, 3765600.00, 55.00, 55.00, 0.00) | GC | C1001 |
| | 10TH HIGHEST VALUE IS | 2.79946 | AT ( 382074.00, 3765620.00, 55.50, 55.50, 0.00) | GC | C1001 |
| 1012 | 1ST HIGHEST VALUE IS | 26.36532 | AT ( 382054.00, 3765460.00, 56.70, 56.70, 0.00) | GC | C1001 |
| | 2ND HIGHEST VALUE IS | 26.12663 | AT ( 382034.00, 3765460.00, 56.90, 56.90, 0.00) | GC | C1001 |
| | 3RD HIGHEST VALUE IS | 26.01430 | AT ( 382074.00, 3765460.00, 56.50, 56.50, 0.00) | GC | C1001 |
| | 4TH HIGHEST VALUE IS | 25.31299 | AT ( 382014.00, 3765460.00, 57.20, 57.20, 0.00) | GC | C1001 |
| | 5TH HIGHEST VALUE IS | 25.14945 | AT ( 382094.00, 3765460.00, 56.40, 56.40, 0.00) | GC | C1001 |
| | 6TH HIGHEST VALUE IS | 24.03660 | AT ( 381994.00, 3765460.00, 57.50, 57.50, 0.00) | GC | C1001 |
| | 7TH HIGHEST VALUE IS | 23.87136 | AT ( 382114.00, 3765460.00, 56.20, 56.20, 0.00) | GC | C1001 |
| | 8TH HIGHEST VALUE IS | 22.43319 | AT ( 381974.00, 3765460.00, 57.70, 57.70, 0.00) | GC | C1001 |
| | 9TH HIGHEST VALUE IS | 22.34173 | AT ( 382134.00, 3765460.00, 56.10, 56.10, 0.00) | GC | C1001 |
| | 10TH HIGHEST VALUE IS | 21.73011 | AT ( 382054.00, 3765480.00, 56.20, 56.20, 0.00) | GC | C1001 |

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE SUMMARY OF MAXIMUM PERIOD ( 43800 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

| GROUP ID | | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) | NETWORK OF TYPE | GRID-ID |
|---|---|---|---|---|---|
| 1013 | 1ST HIGHEST VALUE IS | 6.65968 | AT ( 381954.00, 3765460.00, 57.70, 57.70, 0.00) | GC | C1001 |
| | 2ND HIGHEST VALUE IS | 6.64086 | AT ( 381974.00, 3765460.00, 57.70, 57.70, 0.00) | GC | C1001 |
| | 3RD HIGHEST VALUE IS | 6.58782 | AT ( 381994.00, 3765460.00, 57.50, 57.50, 0.00) | GC | C1001 |
| | 4TH HIGHEST VALUE IS | 6.50363 | AT ( 382014.00, 3765460.00, 57.20, 57.20, 0.00) | GC | C1001 |
| | 5TH HIGHEST VALUE IS | 6.39232 | AT ( 382034.00, 3765460.00, 56.90, 56.90, 0.00) | GC | C1001 |
| | 6TH HIGHEST VALUE IS | 6.25870 | AT ( 382054.00, 3765460.00, 56.70, 56.70, 0.00) | GC | C1001 |
| | 7TH HIGHEST VALUE IS | 6.10784 | AT ( 381954.00, 3765480.00, 57.70, 57.70, 0.00) | GC | C1001 |
| | 8TH HIGHEST VALUE IS | 6.10489 | AT ( 382074.00, 3765460.00, 56.50, 56.50, 0.00) | GC | C1001 |
| | 9TH HIGHEST VALUE IS | 6.09254 | AT ( 381974.00, 3765480.00, 57.60, 57.60, 0.00) | GC | C1001 |
| | 10TH HIGHEST VALUE IS | 6.04840 | AT ( 381994.00, 3765480.00, 57.30, 57.30, 0.00) | GC | C1001 |
| 1014 | 1ST HIGHEST VALUE IS | 3.02758 | AT ( 381954.00, 3765460.00, 57.70, 57.70, 0.00) | GC | C1001 |
| | 2ND HIGHEST VALUE IS | 2.99757 | AT ( 381974.00, 3765460.00, 57.70, 57.70, 0.00) | GC | C1001 |
| | 3RD HIGHEST VALUE IS | 2.96157 | AT ( 381994.00, 3765460.00, 57.50, 57.50, 0.00) | GC | C1001 |
| | 4TH HIGHEST VALUE IS | 2.92039 | AT ( 382014.00, 3765460.00, 57.20, 57.20, 0.00) | GC | C1001 |
| | 5TH HIGHEST VALUE IS | 2.87490 | AT ( 382034.00, 3765460.00, 56.90, 56.90, 0.00) | GC | C1001 |
| | 6TH HIGHEST VALUE IS | 2.86923 | AT ( 381954.00, 3765480.00, 57.70, 57.70, 0.00) | GC | C1001 |
| | 7TH HIGHEST VALUE IS | 2.84244 | AT ( 381974.00, 3765480.00, 57.60, 57.60, 0.00) | GC | C1001 |
| | 8TH HIGHEST VALUE IS | 2.82604 | AT ( 382054.00, 3765460.00, 56.70, 56.70, 0.00) | GC | C1001 |
| | 9TH HIGHEST VALUE IS | 2.81020 | AT ( 381994.00, 3765480.00, 57.30, 57.30, 0.00) | GC | C1001 |
| | 10TH HIGHEST VALUE IS | 2.77400 | AT ( 382074.00, 3765460.00, 56.50, 56.50, 0.00) | GC | C1001 |
| 3001 | 1ST HIGHEST VALUE IS | 111.24548 | AT ( 382134.00, 3765640.00, 55.10, 55.10, 0.00) | GC | C1001 |
| | 2ND HIGHEST VALUE IS | 80.71755 | AT ( 382134.00, 3765620.00, 55.00, 55.00, 0.00) | GC | C1001 |
| | 3RD HIGHEST VALUE IS | 79.75235 | AT ( 382114.00, 3765640.00, 55.30, 55.30, 0.00) | GC | C1001 |
| | 4TH HIGHEST VALUE IS | 63.23893 | AT ( 382114.00, 3765620.00, 55.20, 55.20, 0.00) | GC | C1001 |
| | 5TH HIGHEST VALUE IS | 59.83191 | AT ( 382134.00, 3765600.00, 55.00, 55.00, 0.00) | GC | C1001 |
| | 6TH HIGHEST VALUE IS | 58.85678 | AT ( 382094.00, 3765640.00, 55.50, 55.50, 0.00) | GC | C1001 |
| | 7TH HIGHEST VALUE IS | 49.97297 | AT ( 382114.00, 3765600.00, 55.00, 55.00, 0.00) | GC | C1001 |
| | 8TH HIGHEST VALUE IS | 49.66493 | AT ( 382094.00, 3765620.00, 55.30, 55.30, 0.00) | GC | C1001 |
| | 9TH HIGHEST VALUE IS | 45.66283 | AT ( 382134.00, 3765580.00, 54.80, 54.80, 0.00) | GC | C1001 |
| | 10TH HIGHEST VALUE IS | 44.89956 | AT ( 382074.00, 3765640.00, 55.70, 55.70, 0.00) | GC | C1001 |
| 3002 | 1ST HIGHEST VALUE IS | 220.97617 | AT ( 382094.00, 3765600.00, 55.20, 55.20, 0.00) | GC | C1001 |
| | 2ND HIGHEST VALUE IS | 212.65746 | AT ( 382094.00, 3765620.00, 55.30, 55.30, 0.00) | GC | C1001 |
| | 3RD HIGHEST VALUE IS | 188.48260 | AT ( 382114.00, 3765560.00, 55.00, 55.00, 0.00) | GC | C1001 |

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      4TH HIGHEST VALUE IS    180.39229 AT (  382094.00,  3765580.00,    55.20,    55.20,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS    165.06798 AT (  382094.00,  3765640.00,    55.50,    55.50,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS    134.65375 AT (  382134.00,  3765540.00,    54.70,    54.70,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS    130.00896 AT (  382094.00,  3765560.00,    55.10,    55.10,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS    123.53775 AT (  382074.00,  3765600.00,    55.50,    55.50,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS    121.04616 AT (  382074.00,  3765620.00,    55.50,    55.50,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS    116.20405 AT (  382114.00,  3765540.00,    54.90,    54.90,    0.00)  GC  C1001
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                  ***      11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                      ***      15:31:34
                                                                                    PAGE 227
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                          *** THE SUMMARY OF MAXIMUM PERIOD ( 43800 HRS) RESULTS ***


                         ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

                                                                    NETWORK
GROUP ID                 AVERAGE CONC            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3003     1ST HIGHEST VALUE IS    248.31619 AT (  382134.00,  3765560.00,    54.70,    54.70,    0.00)  GC  C1001
       2ND HIGHEST VALUE IS    207.65748 AT (  382074.00,  3765480.00,    55.90,    55.90,    0.00)  GC  C1001
       3RD HIGHEST VALUE IS    187.95282 AT (  382114.00,  3765460.00,    56.20,    56.20,    0.00)  GC  C1001
       4TH HIGHEST VALUE IS    175.58481 AT (  382074.00,  3765560.00,    55.30,    55.30,    0.00)  GC  C1001
       5TH HIGHEST VALUE IS    171.83140 AT (  382054.00,  3765520.00,    55.80,    55.80,    0.00)  GC  C1001
       6TH HIGHEST VALUE IS    170.04625 AT (  382094.00,  3765460.00,    56.40,    56.40,    0.00)  GC  C1001
       7TH HIGHEST VALUE IS    168.96577 AT (  382134.00,  3765460.00,    56.10,    56.10,    0.00)  GC  C1001
       8TH HIGHEST VALUE IS    161.45962 AT (  382054.00,  3765500.00,    56.00,    56.00,    0.00)  GC  C1001
       9TH HIGHEST VALUE IS    154.39521 AT (  382114.00,  3765580.00,    55.00,    55.00,    0.00)  GC  C1001
      10TH HIGHEST VALUE IS    151.49861 AT (  382051.00,  3765530.00,    55.69,    55.69,    0.00)  DC

3004     1ST HIGHEST VALUE IS    243.38434 AT (  382114.00,  3765460.00,    56.20,    56.20,    0.00)  GC  C1001
       2ND HIGHEST VALUE IS    207.13055 AT (  382074.00,  3765480.00,    55.90,    55.90,    0.00)  GC  C1001
       3RD HIGHEST VALUE IS    195.69383 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
       4TH HIGHEST VALUE IS    194.44334 AT (  382094.00,  3765480.00,    55.70,    55.70,    0.00)  GC  C1001
       5TH HIGHEST VALUE IS    176.55352 AT (  382054.00,  3765480.00,    56.20,    56.20,    0.00)  GC  C1001
       6TH HIGHEST VALUE IS    153.30163 AT (  382114.00,  3765480.00,    55.60,    55.60,    0.00)  GC  C1001
       7TH HIGHEST VALUE IS    151.75516 AT (  382134.00,  3765460.00,    56.10,    56.10,    0.00)  GC  C1001
       8TH HIGHEST VALUE IS    131.40184 AT (  382034.00,  3765480.00,    56.60,    56.60,    0.00)  GC  C1001
       9TH HIGHEST VALUE IS    121.60488 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
      10TH HIGHEST VALUE IS    119.10658 AT (  382074.00,  3765500.00,    55.60,    55.60,    0.00)  GC  C1001

3005     1ST HIGHEST VALUE IS     49.09032 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
       2ND HIGHEST VALUE IS     48.69490 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
       3RD HIGHEST VALUE IS     47.38192 AT (  382074.00,  3765460.00,    56.50,    56.50,    0.00)  GC  C1001
       4TH HIGHEST VALUE IS     46.26512 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
       5TH HIGHEST VALUE IS     44.07283 AT (  382094.00,  3765460.00,    56.40,    56.40,    0.00)  GC  C1001
       6TH HIGHEST VALUE IS     42.31341 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
       7TH HIGHEST VALUE IS     39.81414 AT (  382114.00,  3765460.00,    56.20,    56.20,    0.00)  GC  C1001
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      8TH HIGHEST VALUE IS     37.62329 AT (  382054.00,  3765480.00,    56.20,    56.20,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS     37.60483 AT (  381974.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS     37.38194 AT (  382034.00,  3765480.00,    56.60,    56.60,    0.00)  GC  C1001

3006     1ST HIGHEST VALUE IS     19.67694 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS     19.61010 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS     19.43051 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS     19.22670 AT (  381974.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS     18.90701 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS     18.55736 AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS     18.15206 AT (  382074.00,  3765460.00,    56.50,    56.50,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS     17.23575 AT (  382094.00,  3765460.00,    56.40,    56.40,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS     16.77091 AT (  382014.00,  3765480.00,    57.00,    57.00,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS     16.71014 AT (  381994.00,  3765480.00,    57.30,    57.30,    0.00)  GC  C1001
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                  ***      11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                   ***      15:31:34
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 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43800 HRS) RESULTS ***


                  ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

                                                                   NETWORK
GROUP ID                 AVERAGE CONC            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3007     1ST HIGHEST VALUE IS     10.75059 AT (  381974.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS     10.71873 AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS     10.68636 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS     10.53310 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS     10.30269 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS     10.01056 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS      9.66664 AT (  382074.00,  3765460.00,    56.50,    56.50,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS      9.59549 AT (  381974.00,  3765480.00,    57.60,    57.60,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS      9.56857 AT (  381954.00,  3765480.00,    57.70,    57.70,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS      9.54618 AT (  381994.00,  3765480.00,    57.30,    57.30,    0.00)  GC  C1001

3008     1ST HIGHEST VALUE IS      5.57547 AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS      5.50862 AT (  381974.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS      5.42056 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS      5.31450 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS      5.19398 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS      5.16220 AT (  381954.00,  3765480.00,    57.70,    57.70,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS      5.10548 AT (  381974.00,  3765480.00,    57.60,    57.60,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS      5.06269 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS      5.03029 AT (  381994.00,  3765480.00,    57.30,    57.30,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS      4.94017 AT (  382014.00,  3765480.00,    57.00,    57.00,    0.00)  GC  C1001
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3009     1ST HIGHEST VALUE IS      2.89206 AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
       2ND HIGHEST VALUE IS      2.85260 AT (  381974.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
       3RD HIGHEST VALUE IS      2.80845 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
       4TH HIGHEST VALUE IS      2.76043 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
       5TH HIGHEST VALUE IS      2.74707 AT (  381954.00,  3765480.00,    57.70,    57.70,    0.00)  GC  C1001
       6TH HIGHEST VALUE IS      2.71164 AT (  381974.00,  3765480.00,    57.60,    57.60,    0.00)  GC  C1001
       7TH HIGHEST VALUE IS      2.70942 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
       8TH HIGHEST VALUE IS      2.67185 AT (  381994.00,  3765480.00,    57.30,    57.30,    0.00)  GC  C1001
       9TH HIGHEST VALUE IS      2.65629 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
      10TH HIGHEST VALUE IS      2.62875 AT (  382014.00,  3765480.00,    57.00,    57.00,    0.00)  GC  C1001

3010     1ST HIGHEST VALUE IS      4.25569 AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
       2ND HIGHEST VALUE IS      4.20566 AT (  381974.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
       3RD HIGHEST VALUE IS      4.14377 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
       4TH HIGHEST VALUE IS      4.07179 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
       5TH HIGHEST VALUE IS      3.99161 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
       6TH HIGHEST VALUE IS      3.98546 AT (  381954.00,  3765480.00,    57.70,    57.70,    0.00)  GC  C1001
       7TH HIGHEST VALUE IS      3.94191 AT (  381974.00,  3765480.00,    57.60,    57.60,    0.00)  GC  C1001
       8TH HIGHEST VALUE IS      3.90526 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
       9TH HIGHEST VALUE IS      3.88778 AT (  381994.00,  3765480.00,    57.30,    57.30,    0.00)  GC  C1001
      10TH HIGHEST VALUE IS      3.82515 AT (  382014.00,  3765480.00,    57.00,    57.00,    0.00)  GC  C1001
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                   ***       11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                      ***       15:31:34
                                                                                    PAGE 229
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                          *** THE SUMMARY OF MAXIMUM PERIOD ( 43800 HRS) RESULTS ***


                        ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

                                                                    NETWORK
GROUP ID                AVERAGE CONC            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3011     1ST HIGHEST VALUE IS      8.04078 AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
       2ND HIGHEST VALUE IS      8.01350 AT (  381974.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
       3RD HIGHEST VALUE IS      7.93457 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
       4TH HIGHEST VALUE IS      7.80907 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
       5TH HIGHEST VALUE IS      7.64391 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
       6TH HIGHEST VALUE IS      7.44727 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
       7TH HIGHEST VALUE IS      7.30326 AT (  381954.00,  3765480.00,    57.70,    57.70,    0.00)  GC  C1001
       8TH HIGHEST VALUE IS      7.28189 AT (  381974.00,  3765480.00,    57.60,    57.60,    0.00)  GC  C1001
       9TH HIGHEST VALUE IS      7.22368 AT (  382074.00,  3765460.00,    56.50,    56.50,    0.00)  GC  C1001
      10TH HIGHEST VALUE IS      7.21785 AT (  381994.00,  3765480.00,    57.30,    57.30,    0.00)  GC  C1001

3012     1ST HIGHEST VALUE IS     12.60264 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
       2ND HIGHEST VALUE IS     12.55957 AT (  381974.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
       3RD HIGHEST VALUE IS     12.51636 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
       4TH HIGHEST VALUE IS     12.38527 AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
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      5TH HIGHEST VALUE IS     12.31160 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS     12.00675 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS     11.61500 AT (  382074.00,  3765460.00,    56.50,    56.50,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS     11.16168 AT (  382094.00,  3765460.00,    56.40,    56.40,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS     11.12493 AT (  381994.00,  3765480.00,    57.30,    57.30,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS     11.08978 AT (  381974.00,  3765480.00,    57.60,    57.60,    0.00)  GC  C1001

3013     1ST HIGHEST VALUE IS     23.66202 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS     23.54761 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS     23.32579 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS     22.97759 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS     22.57919 AT (  382074.00,  3765460.00,    56.50,    56.50,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS     22.00633 AT (  381974.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS     21.51919 AT (  382094.00,  3765460.00,    56.40,    56.40,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS     20.73213 AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS     20.23187 AT (  382114.00,  3765460.00,    56.20,    56.20,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS     19.81395 AT (  382034.00,  3765480.00,    56.60,    56.60,    0.00)  GC  C1001

3014     1ST HIGHEST VALUE IS     65.44834 AT (  382074.00,  3765460.00,    56.50,    56.50,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS     65.34004 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS     61.83286 AT (  382094.00,  3765460.00,    56.40,    56.40,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS     61.37507 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS     55.64205 AT (  382114.00,  3765460.00,    56.20,    56.20,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS     54.81324 AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS     48.55978 AT (  382134.00,  3765460.00,    56.10,    56.10,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS     47.98830 AT (  382074.00,  3765480.00,    55.90,    55.90,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS     47.86663 AT (  382054.00,  3765480.00,    56.20,    56.20,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS     47.26830 AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                  ***       11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                            ***       15:31:34
                                                                                                 PAGE 230
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43800 HRS) RESULTS ***


                       ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

                                                                        NETWORK
GROUP ID                  AVERAGE CONC            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3015     1ST HIGHEST VALUE IS    254.63397 AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS    201.71224 AT (  382134.00,  3765480.00,    55.40,    55.40,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS    173.83919 AT (  382054.00,  3765480.00,    56.20,    56.20,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS    167.49509 AT (  382094.00,  3765500.00,    55.30,    55.30,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS    158.58962 AT (  382114.00,  3765500.00,    55.10,    55.10,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS    148.27226 AT (  382074.00,  3765500.00,    55.60,    55.60,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS    141.65220 AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS    130.47028 AT (  382134.00,  3765500.00,    55.10,    55.10,    0.00)  GC  C1001
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      9TH HIGHEST VALUE IS    116.19660 AT (  382054.00,  3765500.00,    56.00,    56.00,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS    114.03271 AT (  382034.00,  3765480.00,    56.60,    56.60,    0.00)  GC  C1001

3016     1ST HIGHEST VALUE IS    245.57164 AT (  382114.00,  3765480.00,    55.60,    55.60,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS    205.12030 AT (  382094.00,  3765560.00,    55.10,    55.10,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS    194.79116 AT (  382134.00,  3765580.00,    54.80,    54.80,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS    173.38416 AT (  382114.00,  3765580.00,    55.00,    55.00,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS    169.80678 AT (  382094.00,  3765480.00,    55.70,    55.70,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS    167.30172 AT (  382074.00,  3765520.00,    55.40,    55.40,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS    158.16091 AT (  382074.00,  3765540.00,    55.40,    55.40,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS    148.08509 AT (  382134.00,  3765460.00,    56.10,    56.10,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS    146.76253 AT (  382074.00,  3765500.00,    55.60,    55.60,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS    136.11714 AT (  382114.00,  3765460.00,    56.20,    56.20,    0.00)  GC  C1001

3017     1ST HIGHEST VALUE IS    249.39129 AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS    186.95385 AT (  382114.00,  3765600.00,    55.00,    55.00,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS    182.97771 AT (  382114.00,  3765620.00,    55.20,    55.20,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS    168.34237 AT (  382134.00,  3765560.00,    54.70,    54.70,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS    156.05179 AT (  382114.00,  3765580.00,    55.00,    55.00,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS    148.19265 AT (  382114.00,  3765640.00,    55.30,    55.30,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS    116.51752 AT (  382114.00,  3765560.00,    55.00,    55.00,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS    109.41478 AT (  382094.00,  3765600.00,    55.20,    55.20,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS    107.98991 AT (  382134.00,  3765540.00,    54.70,    54.70,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS    107.98725 AT (  382094.00,  3765620.00,    55.30,    55.30,    0.00)  GC  C1001

3018     1ST HIGHEST VALUE IS     72.05831 AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS     59.51975 AT (  382134.00,  3765620.00,    55.00,    55.00,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS     53.23562 AT (  382114.00,  3765640.00,    55.30,    55.30,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS     48.39179 AT (  382134.00,  3765600.00,    55.00,    55.00,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS     46.33213 AT (  382114.00,  3765620.00,    55.20,    55.20,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS     40.85162 AT (  382094.00,  3765640.00,    55.50,    55.50,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS     39.50599 AT (  382114.00,  3765600.00,    55.00,    55.00,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS     39.37293 AT (  382134.00,  3765580.00,    54.80,    54.80,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS     36.81410 AT (  382094.00,  3765620.00,    55.30,    55.30,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS     33.43122 AT (  382114.00,  3765580.00,    55.00,    55.00,    0.00)  GC  C1001
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                   ***       11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                              ***       15:31:34
                                                                                          PAGE 231
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                          *** THE SUMMARY OF MAXIMUM PERIOD ( 43800 HRS) RESULTS ***


                         ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

                                                                    NETWORK
GROUP ID                 AVERAGE CONC            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3019     1ST HIGHEST VALUE IS     23.44416 AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001
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      2ND HIGHEST VALUE IS     20.66775 AT (  382134.00,  3765620.00,    55.00,    55.00,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS     20.36420 AT (  382114.00,  3765640.00,    55.30,    55.30,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS     18.27916 AT (  382114.00,  3765620.00,    55.20,    55.20,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS     18.22562 AT (  382134.00,  3765600.00,    55.00,    55.00,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS     17.76995 AT (  382094.00,  3765640.00,    55.50,    55.50,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS     16.37702 AT (  382114.00,  3765600.00,    55.00,    55.00,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS     16.19509 AT (  382094.00,  3765620.00,    55.30,    55.30,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS     16.11053 AT (  382134.00,  3765580.00,    54.80,    54.80,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS     15.59196 AT (  382074.00,  3765640.00,    55.70,    55.70,    0.00)  GC  C1001

3020     1ST HIGHEST VALUE IS     11.79938 AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001
      2ND HIGHEST VALUE IS     10.82240 AT (  382114.00,  3765640.00,    55.30,    55.30,    0.00)  GC  C1001
      3RD HIGHEST VALUE IS     10.76014 AT (  382134.00,  3765620.00,    55.00,    55.00,    0.00)  GC  C1001
      4TH HIGHEST VALUE IS      9.95427 AT (  382114.00,  3765620.00,    55.20,    55.20,    0.00)  GC  C1001
      5TH HIGHEST VALUE IS      9.92870 AT (  382094.00,  3765640.00,    55.50,    55.50,    0.00)  GC  C1001
      6TH HIGHEST VALUE IS      9.82709 AT (  382134.00,  3765600.00,    55.00,    55.00,    0.00)  GC  C1001
      7TH HIGHEST VALUE IS      9.20243 AT (  382094.00,  3765620.00,    55.30,    55.30,    0.00)  GC  C1001
      8TH HIGHEST VALUE IS      9.15800 AT (  382114.00,  3765600.00,    55.00,    55.00,    0.00)  GC  C1001
      9TH HIGHEST VALUE IS      9.11717 AT (  382074.00,  3765640.00,    55.70,    55.70,    0.00)  GC  C1001
     10TH HIGHEST VALUE IS      8.98798 AT (  382134.00,  3765580.00,    54.80,    54.80,    0.00)  GC  C1001


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                  ***      11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                   ***      15:31:34
                                                                                   PAGE 232
 **MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                                  *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***


                             ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

                                          DATE                                          NETWORK
GROUP ID                   AVERAGE CONC    (YYMMDDHH)          RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

1001    HIGH   1ST HIGH VALUE IS    148.89238  ON 07042007: AT (  381994.00,  3765480.00,    57.30,    57.30,    0.00)  GC  C1001

1002    HIGH   1ST HIGH VALUE IS     90.40720  ON 10100517: AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001

1003    HIGH   1ST HIGH VALUE IS     32.43200  ON 07052117: AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001

1004    HIGH   1ST HIGH VALUE IS     16.01772  ON 07052117: AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001

1005    HIGH   1ST HIGH VALUE IS    119.57924  ON 06090401: AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001
```

```
1006    HIGH   1ST HIGH VALUE IS    24.61573  ON 06031716: AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001

1007    HIGH   1ST HIGH VALUE IS    11.79999  ON 09010316: AT (  382054.00,  3765640.00,    56.00,    56.00,    0.00)  GC  C1001

1008    HIGH   1ST HIGH VALUE IS   144.94547  ON 07042007: AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001

1009    HIGH   1ST HIGH VALUE IS   110.20585  ON 06090401: AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001

1010    HIGH   1ST HIGH VALUE IS    24.66164  ON 06031716: AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001

1011    HIGH   1ST HIGH VALUE IS    12.05445  ON 09010316: AT (  382074.00,  3765640.00,    55.70,    55.70,    0.00)  GC  C1001

1012    HIGH   1ST HIGH VALUE IS    78.68925  ON 10100517: AT (  382074.00,  3765460.00,    56.50,    56.50,    0.00)  GC  C1001

1013    HIGH   1ST HIGH VALUE IS    30.23568  ON 07052117: AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001

1014    HIGH   1ST HIGH VALUE IS    16.51190  ON 07052117: AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001

3001    HIGH   1ST HIGH VALUE IS   297.92608  ON 06090401: AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001

3002    HIGH   1ST HIGH VALUE IS   578.29810  ON 06090401: AT (  382094.00,  3765600.00,    55.20,    55.20,    0.00)  GC  C1001

3003    HIGH   1ST HIGH VALUE IS   634.10415  ON 07040816: AT (  382134.00,  3765560.00,    54.70,    54.70,    0.00)  GC  C1001

3004    HIGH   1ST HIGH VALUE IS   658.04464  ON 07040816: AT (  382114.00,  3765460.00,    56.20,    56.20,    0.00)  GC  C1001

3005    HIGH   1ST HIGH VALUE IS   151.86820  ON 10100517: AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001

3006    HIGH   1ST HIGH VALUE IS    79.52247  ON 07052117: AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001

3007    HIGH   1ST HIGH VALUE IS    49.87966  ON 07052117: AT (  382014.00,  3765460.00,    57.20,    57.20,    0.00)  GC  C1001

3008    HIGH   1ST HIGH VALUE IS    27.41411  ON 07052117: AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001

3009    HIGH   1ST HIGH VALUE IS    15.56473  ON 07052117: AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001

3010    HIGH   1ST HIGH VALUE IS    21.64841  ON 07052117: AT (  381954.00,  3765460.00,    57.70,    57.70,    0.00)  GC  C1001

3011    HIGH   1ST HIGH VALUE IS    39.60211  ON 07052117: AT (  381994.00,  3765460.00,    57.50,    57.50,    0.00)  GC  C1001
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                                  ***      11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                          ***      15:31:34
                                                                                                  PAGE 233
 **MODELOPTs:   RegDFAULT CONC     ELEV     URBAN

                          *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***


                    ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

                          DATE                                                  NETWORK
```

```
GROUP ID                    AVERAGE CONC     (YYMMDDHH)           RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3012    HIGH   1ST HIGH VALUE IS     56.56397  ON 07052117: AT (  382034.00,  3765460.00,    56.90,    56.90,    0.00)  GC  C1001

3013    HIGH   1ST HIGH VALUE IS     91.47615  ON 07052117: AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001

3014    HIGH   1ST HIGH VALUE IS    186.68469  ON 10100517: AT (  382074.00,  3765460.00,    56.50,    56.50,    0.00)  GC  C1001

3015    HIGH   1ST HIGH VALUE IS    664.08310  ON 06090401: AT (  382054.00,  3765460.00,    56.70,    56.70,    0.00)  GC  C1001

3016    HIGH   1ST HIGH VALUE IS    644.23874  ON 06090401: AT (  382114.00,  3765480.00,    55.60,    55.60,    0.00)  GC  C1001

3017    HIGH   1ST HIGH VALUE IS    648.48535  ON 06090401: AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001

3018    HIGH   1ST HIGH VALUE IS    200.14246  ON 07042007: AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001

3019    HIGH   1ST HIGH VALUE IS     66.09178  ON 09052707: AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001

3020    HIGH   1ST HIGH VALUE IS     37.06154  ON 06031716: AT (  382134.00,  3765640.00,    55.10,    55.10,    0.00)  GC  C1001

 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```

```
♀ *** AERMOD - VERSION  15181 ***   ***  USC Student Housing HRA                              ***       11/02/16
 *** AERMET - VERSION  14134 ***   ***                                                    ***       15:31:34
                                                                                   PAGE 234
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of           0 Fatal Error Message(s)
 A Total of           3 Warning Message(s)
 A Total of         756 Informational Message(s)

 A Total of       43800 Hours Were Processed

 A Total of           4 Calm Hours Identified

 A Total of         752 Missing Hours Identified (  1.72 Percent)


   ******** FATAL ERROR MESSAGES ********
          ***  NONE  ***
```

```
  ********   WARNING MESSAGES   ********
CO W200      6      TITLES: Missing Parameter(s). No Options Specified For        TITLETWO
MX W450   17521      CHKDAT: Record Out of Sequence in Meteorological File at:     09010101
MX W450   17521      CHKDAT: Record Out of Sequence in Meteorological File at:    1 year gap

  ************************************
  *** AERMOD Finishes Successfully ***
  ************************************
```

**HARP Health Risk Summary by Receptor**

| HARP ID | ID | GE ID | Easting | Northing | Base Elev (m) | Floor Elev (m) | Percent Risk DPM | 30 year | 9 year Adult | 9 Year Child | Chronic | Acute |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | SR1001 | SR1 | 382071 | 3765565 | 60 | 61.5 | 75% | 4.09E-06 | 1.23E-06 | 1.81E-06 | 0.00782 | 0.00236 |
| 102 | SR1002 | SR1 | 382071 | 3765565 | 60 | 64.5 | 75% | 4.09E-06 | 1.23E-06 | 1.81E-06 | 0.00782 | 0.00236 |
| 103 | SR1003 | SR1 | 382071 | 3765565 | 60 | 67.5 | 75% | 4.09E-06 | 1.23E-06 | 1.81E-06 | 0.00782 | 0.00236 |
| 104 | SR1004 | SR1 | 382071 | 3765565 | 60 | 70.5 | 75% | 4.09E-06 | 1.23E-06 | 1.81E-06 | 0.00782 | 0.00236 |
| 105 | SR1005 | SR1 | 382071 | 3765565 | 60 | 73.5 | 75% | 4.09E-06 | 1.23E-06 | 1.81E-06 | 0.00782 | 0.00236 |
| 106 | SR1006 | SR1 | 382071 | 3765565 | 60 | 76.5 | 75% | 4.09E-06 | 1.23E-06 | 1.81E-06 | 0.00782 | 0.00236 |
| 107 | SR1007 | SR1 | 382071 | 3765565 | 60 | 79.5 | 75% | 4.09E-06 | 1.23E-06 | 1.81E-06 | 0.00782 | 0.00236 |
| 108 | SR1008 | SR2 | 382051 | 3765530 | 60 | 61.5 | 75% | 4.03E-06 | 1.21E-06 | 1.79E-06 | 0.00771 | 0.00234 |
| 109 | SR1009 | SR2 | 382051 | 3765530 | 60 | 64.5 | 75% | 4.03E-06 | 1.21E-06 | 1.79E-06 | 0.00771 | 0.00234 |
| 110 | SR1010 | SR2 | 382051 | 3765530 | 60 | 67.5 | 75% | 4.03E-06 | 1.21E-06 | 1.79E-06 | 0.00771 | 0.00234 |
| 111 | SR1011 | SR2 | 382051 | 3765530 | 60 | 70.5 | 75% | 4.03E-06 | 1.21E-06 | 1.79E-06 | 0.00771 | 0.00234 |
| 112 | SR1012 | SR2 | 382051 | 3765530 | 60 | 73.5 | 75% | 4.03E-06 | 1.21E-06 | 1.79E-06 | 0.00771 | 0.00234 |
| 113 | SR1013 | SR2 | 382051 | 3765530 | 60 | 76.5 | 75% | 4.03E-06 | 1.21E-06 | 1.79E-06 | 0.00771 | 0.00234 |
| 114 | SR1014 | SR2 | 382051 | 3765530 | 60 | 79.5 | 75% | 4.03E-06 | 1.21E-06 | 1.79E-06 | 0.00771 | 0.00234 |

This file: c:\HARP\projects\demo\Rep_Can_9yrA_DerOEH_AllRec_AllSrc_AllCh_ByRec_Site_UTM.txt

Created by HARP Version 1.4f  Build 23.11.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 11/7/2016 10:49:20 AM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: USC.EMS
Site parameters file: c:\HARP\projects\demo\project.sit

Screening mode is OFF

Exposure duration: 9 year (adult resident)
Analysis method: Derived (OEHHA) Method
Health effect: Cancer Risk
Receptor(s): All
Sources(s): All
Chemicals(s): All

SITE PARAMETERS

DEPOSITION

Deposition rate (m/s) 0.05

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

*** Pathway disabled ***

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway disabled ***

SOIL INGESTION

*** Pathway disabled ***

MOTHER'S MILK

*** Pathway disabled ***

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

| CHEM | CAS | ABBREVIATION | POLLUTANT NAME | BACKGROUND (ug/m^3) |
|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 1,3-Butadiene | 0.000E+00 |
| 0002 | 75070 | Acetaldehyde | Acetaldehyde | 0.000E+00 |
| 0003 | 107028 | Acrolein | Acrolein | 0.000E+00 |
| 0004 | 71432 | Benzene | Benzene | 0.000E+00 |
| 0005 | 9901 | DieselExhPM | Diesel engine exhaust, particulate matter (Diesel PM) | 0.000E+00 |
| 0006 | 50000 | Formaldehyde | Formaldehyde | 0.000E+00 |

CHEMICAL HEALTH VALUES

| CHEM | CAS | ABBREVIATION | CancerPF(Inh) (mg/kg-d)^-1 | CancerPF(Oral) (mg/kg-d)^-1 | ChronicREL(Inh) ug/m^3 | ChronicREL(Oral) mg/kg-d | AcuteREL ug/m^3 |
|---|---|---|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 6.00E-01 | * | 2.00E+01 | * | * |
| 0002 | 75070 | Acetaldehyde | 1.00E-02 | * | 1.40E+02 | * | 4.70E+02 |
| 0003 | 107028 | Acrolein | * | * | 3.50E-01 | * | 2.50E+00 |
| 0004 | 71432 | Benzene | 1.00E-01 | * | 6.00E+01 | * | 1.30E+03 |
| 0005 | 9901 | DieselExhPM | 1.10E+00 | * | 5.00E+00 | * | * |
| 0006 | 50000 | Formaldehyde | 2.10E-02 | * | 9.00E+00 | * | 5.50E+01 |

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.EMS
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=1001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=1002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=3 NAME=1003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=4 NAME=1004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=5 NAME=1005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=6 NAME=1006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=7 NAME=1007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=8 NAME=1008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=9 NAME=1009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=10 NAME=1010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=11 NAME=1011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=12 NAME=1012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=13 NAME=1013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=14 NAME=1014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=15 NAME=3001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=16 NAME=3002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=17 NAME=3003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=18 NAME=3004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=19 NAME=3005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=20 NAME=3006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=21 NAME=3007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=22 NAME=3008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=23 NAME=3009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=24 NAME=3010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.95E-01 | 2.23E-05 |
| 75070 | Acetaldehyde | 1 | 0 | 8.72E-01 | 9.96E-05 |
| 107028 | Acrolein | 1 | 0 | 4.87E-02 | 5.56E-06 |
| 71432 | Benzene | 1 | 0 | 2.83E+00 | 3.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 8.18E-01 | 9.34E-05 |
| 50000 | Formaldehyde | 1 | 0 | 1.49E+00 | 1.70E-04 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=25 NAME=3011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=26 NAME=3012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=27 NAME=3013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=28 NAME=3014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=29 NAME=3015 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=30 NAME=3016 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=31 NAME=3017 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=32 NAME=3018 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=33 NAME=3019 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=34 NAME=3020 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |

| | | | | | |
|---|---|---|---|---|---|
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

CANCER RISK REPORT

| REC | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-06 | 381954 | 3765460 |
| 0002 | 2.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-06 | 381974 | 3765460 |
| 0003 | 2.27E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.27E-06 | 381994 | 3765460 |
| 0004 | 1.91E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-06 | 382014 | 3765460 |
| 0005 | 2.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.10E-06 | 382034 | 3765460 |
| 0006 | 1.52E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E-06 | 382054 | 3765460 |
| 0007 | 1.43E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-06 | 382074 | 3765460 |
| 0008 | 1.41E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-06 | 382094 | 3765460 |
| 0009 | 1.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-06 | 382114 | 3765460 |
| 0010 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 | 382134 | 3765460 |
| 0011 | 1.76E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.76E-06 | 381954 | 3765480 |
| 0012 | 1.96E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-06 | 381974 | 3765480 |
| 0013 | 2.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-06 | 381994 | 3765480 |
| 0014 | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382014 | 3765480 |
| 0015 | 1.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-06 | 382034 | 3765480 |
| 0016 | 1.42E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-06 | 382054 | 3765480 |
| 0017 | 1.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-06 | 382074 | 3765480 |
| 0018 | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 | 382094 | 3765480 |
| 0019 | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 | 382114 | 3765480 |
| 0020 | 1.30E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-06 | 382134 | 3765480 |
| 0021 | 1.69E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-06 | 381954 | 3765500 |
| 0022 | 1.90E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-06 | 381974 | 3765500 |
| 0023 | 1.54E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E-06 | 381994 | 3765500 |
| 0024 | 1.70E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E-06 | 382014 | 3765500 |
| 0025 | 1.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-06 | 382034 | 3765500 |
| 0026 | 1.31E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-06 | 382054 | 3765500 |
| 0027 | 1.32E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-06 | 382074 | 3765500 |
| 0028 | 1.28E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-06 | 382094 | 3765500 |
| 0029 | 1.27E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-06 | 382114 | 3765500 |
| 0030 | 1.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-06 | 382134 | 3765500 |
| 0031 | 1.63E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.63E-06 | 381954 | 3765520 |
| 0032 | 1.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-06 | 381974 | 3765520 |
| 0033 | 1.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-06 | 381994 | 3765520 |
| 0034 | 1.62E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-06 | 382014 | 3765520 |
| 0035 | 1.18E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E-06 | 382034 | 3765520 |
| 0036 | 1.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-06 | 382054 | 3765520 |
| 0037 | 1.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-06 | 382074 | 3765520 |
| 0038 | 1.22E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-06 | 382094 | 3765520 |
| 0039 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382114 | 3765520 |
| 0040 | 1.24E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-06 | 382134 | 3765520 |
| 0041 | 1.57E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-06 | 381954 | 3765540 |
| 0042 | 1.77E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-06 | 381974 | 3765540 |
| 0043 | 1.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-06 | 381994 | 3765540 |
| 0044 | 1.55E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-06 | 382014 | 3765540 |
| 0045 | 1.74E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-06 | 382034 | 3765540 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0046 | 1.20E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-06 | 382054 | 3765540 |
| 0047 | 1.22E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-06 | 382074 | 3765540 |
| 0048 | 1.20E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-06 | 382094 | 3765540 |
| 0049 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382114 | 3765540 |
| 0050 | 1.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-06 | 382134 | 3765540 |
| 0051 | 1.51E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.51E-06 | 381954 | 3765560 |
| 0052 | 1.70E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E-06 | 381974 | 3765560 |
| 0053 | 1.34E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-06 | 381994 | 3765560 |
| 0054 | 1.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-06 | 382014 | 3765560 |
| 0055 | 1.65E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-06 | 382034 | 3765560 |
| 0056 | 1.16E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-06 | 382054 | 3765560 |
| 0057 | 1.24E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-06 | 382074 | 3765560 |
| 0058 | 1.29E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-06 | 382094 | 3765560 |
| 0059 | 1.28E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-06 | 382114 | 3765560 |
| 0060 | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 | 382134 | 3765560 |
| 0061 | 1.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-06 | 381954 | 3765580 |
| 0062 | 1.62E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-06 | 381974 | 3765580 |
| 0063 | 1.83E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-06 | 381994 | 3765580 |
| 0064 | 1.41E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-06 | 382014 | 3765580 |
| 0065 | 1.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-06 | 382034 | 3765580 |
| 0066 | 1.74E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-06 | 382054 | 3765580 |
| 0067 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382074 | 3765580 |
| 0068 | 1.33E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-06 | 382094 | 3765580 |
| 0069 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 | 382114 | 3765580 |
| 0070 | 1.39E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-06 | 382134 | 3765580 |
| 0071 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 | 381954 | 3765600 |
| 0072 | 1.53E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E-06 | 381974 | 3765600 |
| 0073 | 1.72E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E-06 | 381994 | 3765600 |
| 0074 | 1.95E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-06 | 382014 | 3765600 |
| 0075 | 1.48E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-06 | 382034 | 3765600 |
| 0076 | 1.64E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-06 | 382054 | 3765600 |
| 0077 | 1.83E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-06 | 382074 | 3765600 |
| 0078 | 1.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-06 | 382094 | 3765600 |
| 0079 | 1.42E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-06 | 382114 | 3765600 |
| 0080 | 1.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-06 | 382134 | 3765600 |
| 0081 | 1.32E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-06 | 381954 | 3765620 |
| 0082 | 1.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-06 | 381974 | 3765620 |
| 0083 | 1.61E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-06 | 381994 | 3765620 |
| 0084 | 1.80E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-06 | 382014 | 3765620 |
| 0085 | 2.02E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-06 | 382034 | 3765620 |
| 0086 | 1.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-06 | 382054 | 3765620 |
| 0087 | 1.74E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-06 | 382074 | 3765620 |
| 0088 | 1.94E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-06 | 382094 | 3765620 |
| 0089 | 2.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.11E-06 | 382114 | 3765620 |
| 0090 | 1.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-06 | 382134 | 3765620 |
| 0091 | 1.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-06 | 381954 | 3765640 |
| 0092 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 | 381974 | 3765640 |
| 0093 | 1.51E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.51E-06 | 381994 | 3765640 |
| 0094 | 1.67E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-06 | 382014 | 3765640 |
| 0095 | 1.86E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-06 | 382034 | 3765640 |
| 0096 | 2.07E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-06 | 382054 | 3765640 |
| 0097 | 2.30E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-06 | 382074 | 3765640 |
| 0098 | 1.87E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-06 | 382094 | 3765640 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0099 | 2.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-06 | 382114 | 3765640 |
| 0100 | 2.31E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.31E-06 | 382134 | 3765640 |
| 0101 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 | 3765565 |
| 0102 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 | 3765565 |
| 0103 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 | 3765565 |
| 0104 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 | 3765565 |
| 0105 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 | 3765565 |
| 0106 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 | 3765565 |
| 0107 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 | 3765565 |
| 0108 | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 | 3765530 |
| 0109 | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 | 3765530 |
| 0110 | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 | 3765530 |
| 0111 | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 | 3765530 |
| 0112 | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 | 3765530 |
| 0113 | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 | 3765530 |
| 0114 | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 | 3765530 |

This file: c:\HARP\projects\demo\Rep_Can_9yrA_DerOEH_AllRec_AllSrc_AllCh_ByRec_ByChem_Site_UTM.txt

Created by HARP Version 1.4f  Build 23.11.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 11/7/2016 10:39:12 AM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: USC.EMS
Site parameters file: c:\HARP\projects\demo\project.sit

Screening mode is OFF

Exposure duration: 9 year (adult resident)
Analysis method: Derived (OEHHA) Method
Health effect: Cancer Risk
Receptor(s): All
Sources(s): All
Chemicals(s): All

SITE PARAMETERS

DEPOSITION

Deposition rate (m/s) 0.05

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

*** Pathway disabled ***

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway disabled ***

SOIL INGESTION

*** Pathway disabled ***

MOTHER'S MILK

*** Pathway disabled ***

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

| CHEM | CAS | ABBREVIATION | POLLUTANT NAME | BACKGROUND (ug/m^3) |
|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 1,3-Butadiene | 0.000E+00 |
| 0002 | 75070 | Acetaldehyde | Acetaldehyde | 0.000E+00 |
| 0003 | 107028 | Acrolein | Acrolein | 0.000E+00 |
| 0004 | 71432 | Benzene | Benzene | 0.000E+00 |
| 0005 | 9901 | DieselExhPM | Diesel engine exhaust, particulate matter (Diesel PM) | 0.000E+00 |
| 0006 | 50000 | Formaldehyde | Formaldehyde | 0.000E+00 |

CHEMICAL HEALTH VALUES

| CHEM | CAS | ABBREVIATION | CancerPF(Inh) (mg/kg-d)^-1 | CancerPF(Oral) (mg/kg-d)^-1 | ChronicREL(Inh) ug/m^3 | ChronicREL(Oral) mg/kg-d | AcuteREL ug/m^3 |
|---|---|---|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 6.00E-01 | * | 2.00E+01 | * | * |
| 0002 | 75070 | Acetaldehyde | 1.00E-02 | * | 1.40E+02 | * | 4.70E+02 |
| 0003 | 107028 | Acrolein | * | * | 3.50E-01 | * | 2.50E+00 |
| 0004 | 71432 | Benzene | 1.00E-01 | * | 6.00E+01 | * | 1.30E+03 |
| 0005 | 9901 | DieselExhPM | 1.10E+00 | * | 5.00E+00 | * | * |
| 0006 | 50000 | Formaldehyde | 2.10E-02 | * | 9.00E+00 | * | 5.50E+01 |

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.EMS
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=1001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=1002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=3 NAME=1003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=4 NAME=1004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=5 NAME=1005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=6 NAME=1006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=7 NAME=1007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=8 NAME=1008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=9 NAME=1009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=10 NAME=1010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=11 NAME=1011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=12 NAME=1012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=13 NAME=1013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=14 NAME=1014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=15 NAME=3001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=16 NAME=3002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=17 NAME=3003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=18 NAME=3004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=19 NAME=3005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=20 NAME=3006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=21 NAME=3007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=22 NAME=3008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=23 NAME=3009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=24 NAME=3010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.95E-01 | 2.23E-05 |
| 75070 | Acetaldehyde | 1 | 0 | 8.72E-01 | 9.96E-05 |
| 107028 | Acrolein | 1 | 0 | 4.87E-02 | 5.56E-06 |
| 71432 | Benzene | 1 | 0 | 2.83E+00 | 3.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 8.18E-01 | 9.34E-05 |
| 50000 | Formaldehyde | 1 | 0 | 1.49E+00 | 1.70E-04 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=25 NAME=3011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=26 NAME=3012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=27 NAME=3013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=28 NAME=3014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=29 NAME=3015 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=30 NAME=3016 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=31 NAME=3017 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=32 NAME=3018 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=33 NAME=3019 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=34 NAME=3020 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |

| | | | | | |
|---|---|---|---|---|---|
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

CANCER RISK REPORT

DOMINANT PATHWAYS, Receptor 1

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 1

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-07 | |
| 0002 | 8.63E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.63E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.97E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.97E-07 | |
| 0005 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 | |
| 0006 | 3.01E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-08 | |
| SUM | 1.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-06 | 381954 3765460 |

DOMINANT PATHWAYS, Receptor 2

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 2

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.34E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-07 | |
| 0002 | 9.57E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.57E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.29E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-07 | |
| 0005 | 1.53E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E-06 | |
| 0006 | 3.34E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-08 | |
| SUM | 2.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-06 | 381974 3765460 |

DOMINANT PATHWAYS, Receptor 3

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 3

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.50E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.50E-07 |
| 0002 | 1.07E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.67E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.67E-07 |
| 0005 | 1.71E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.71E-06 |
| 0006 | 3.73E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E-08 |
| SUM | 2.27E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.27E-06 | 381994 3765460 |

DOMINANT PATHWAYS, Receptor 4

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 4

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.27E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-07 |
| 0002 | 9.03E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.10E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-07 |
| 0005 | 1.43E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-06 |
| 0006 | 3.15E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-08 |
| SUM | 1.91E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-06 | 382014 3765460 |

DOMINANT PATHWAYS, Receptor 5

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 5

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.40E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-07 |
| 0002 | 9.96E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.96E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.42E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.42E-07 |
| 0005 | 1.57E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-06 |
| 0006 | 3.47E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.47E-08 |
| SUM | 2.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.10E-06 | 382034 3765460 |

DOMINANT PATHWAYS, Receptor 6

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 6

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.03E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-07 | |
| 0002 | 7.36E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.36E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.51E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-07 | |
| 0005 | 1.13E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.13E-06 | |
| 0006 | 2.57E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.57E-08 | |
| SUM | 1.52E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E-06 | 382054 3765460 |

DOMINANT PATHWAYS, Receptor 7

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 7

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.50E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.50E-08 | |
| 0002 | 6.78E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.78E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.32E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.32E-07 | |
| 0005 | 1.07E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-06 | |
| 0006 | 2.36E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.36E-08 | |
| SUM | 1.43E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-06 | 382074 3765460 |

DOMINANT PATHWAYS, Receptor 8

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 8

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.43E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.43E-08 | |
| 0002 | 6.73E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.73E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.31E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.31E-07 | |
| 0005 | 1.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-06 | |
| 0006 | 2.35E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-08 | |
| SUM | 1.41E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-06 | 382094 3765460 |

DOMINANT PATHWAYS, Receptor 9

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 9

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.64E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.64E-08 | |
| 0002 | 6.89E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.89E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.36E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.36E-07 | |
| 0005 | 1.08E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-06 | |
| 0006 | 2.40E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.40E-08 | |
| SUM | 1.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-06 | 382114 3765460 |

DOMINANT PATHWAYS, Receptor 10

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 10

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.21E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.21E-08 | |
| 0002 | 6.58E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.58E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.25E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-07 | |
| 0005 | 1.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-06 | |
| 0006 | 2.30E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-08 | |
| SUM | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 | 382134 3765460 |

DOMINANT PATHWAYS, Receptor 11

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 11

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-07 | |
| 0002 | 8.26E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.26E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0004 | 2.84E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.84E-07 | | |
| 0005 | 1.32E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-06 | | |
| 0006 | 2.88E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-08 | | |
| SUM | 1.76E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.76E-06 | 381954 | 3765480 |

DOMINANT PATHWAYS, Receptor 12

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 12

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.29E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-07 | |
| 0002 | 9.21E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.21E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.16E-07 | |
| 0005 | 1.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-06 | |
| 0006 | 3.21E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-08 | |
| SUM | 1.96E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-06 | 381974 | 3765480 |

DOMINANT PATHWAYS, Receptor 13

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 13

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.46E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-07 | |
| 0002 | 1.04E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.58E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.58E-07 | |
| 0005 | 1.66E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.66E-06 | |
| 0006 | 3.63E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.63E-08 | |
| SUM | 2.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-06 | 381994 | 3765480 |

DOMINANT PATHWAYS, Receptor 14

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 14

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.19E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.19E-07 | |
| 0002 | 8.47E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.47E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.91E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.91E-07 | |
| 0005 | 1.34E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-06 | |
| 0006 | 2.95E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-08 | |
| SUM | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382014 3765480 |

DOMINANT PATHWAYS, Receptor 15

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 15

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.12E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-08 | |
| 0002 | 6.52E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.52E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.23E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.23E-07 | |
| 0005 | 1.02E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-06 | |
| 0006 | 2.28E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E-08 | |
| SUM | 1.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-06 | 382034 3765480 |

DOMINANT PATHWAYS, Receptor 16

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 16

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.57E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.57E-08 | |
| 0002 | 6.84E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.84E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.34E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.34E-07 | |
| 0005 | 1.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-06 | |
| 0006 | 2.39E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-08 | |
| SUM | 1.42E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-06 | 382054 3765480 |

DOMINANT PATHWAYS, Receptor 17

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 17

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.29E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.29E-08 |
| 0002 | 6.63E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.63E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.27E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.27E-07 |
| 0005 | 1.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-06 |
| 0006 | 2.31E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.31E-08 |
| SUM | 1.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-06 | 382074 3765480 |

DOMINANT PATHWAYS, Receptor 18

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 18

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.05E-08 |
| 0002 | 6.47E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.47E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-07 |
| 0005 | 1.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-06 |
| 0006 | 2.26E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.26E-08 |
| SUM | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 | 382094 3765480 |

DOMINANT PATHWAYS, Receptor 19

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 19

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.10E-08 |
| 0002 | 6.51E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.51E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.22E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.22E-07 |
| 0005 | 1.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-06 |
| 0006 | 2.28E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E-08 |
| SUM | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 | 382114 3765480 |

DOMINANT PATHWAYS, Receptor 20

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 20

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.75E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.75E-08 | |
| 0002 | 6.26E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.26E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.14E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-07 | |
| 0005 | 9.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.70E-07 | |
| 0006 | 2.19E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-08 | |
| SUM | 1.30E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-06 | 382134 3765480 |

DOMINANT PATHWAYS, Receptor 21

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 21

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.12E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-07 | |
| 0002 | 7.95E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.95E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.73E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.73E-07 | |
| 0005 | 1.27E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-06 | |
| 0006 | 2.77E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.77E-08 | |
| SUM | 1.69E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-06 | 381954 3765500 |

DOMINANT PATHWAYS, Receptor 22

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 22

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.25E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-07 | |
| 0002 | 8.92E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.92E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.07E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-07 | |
| 0005 | 1.43E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-06 | |
| 0006 | 3.11E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-08 | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SUM | 1.90E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-06 | 381974 | 3765500 |

DOMINANT PATHWAYS, Receptor 23

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 23

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.02E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-07 | |
| 0002 | 7.29E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.29E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.50E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-07 | |
| 0005 | 1.16E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-06 | |
| 0006 | 2.54E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-08 | |
| SUM | 1.54E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E-06 | 381994 3765500 |

DOMINANT PATHWAYS, Receptor 24

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 24

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.13E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.13E-07 | |
| 0002 | 8.04E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.04E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.76E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-07 | |
| 0005 | 1.28E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-06 | |
| 0006 | 2.80E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.80E-08 | |
| SUM | 1.70E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E-06 | 382014 3765500 |

DOMINANT PATHWAYS, Receptor 25

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 25

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.41E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.41E-08 | |
| 0002 | 6.01E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.01E-09 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 2.06E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-07 | | |
| 0005 | 9.41E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.41E-07 | | |
| 0006 | 2.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.10E-08 | | |
| SUM | 1.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-06 | 382034 | 3765500 |

DOMINANT PATHWAYS, Receptor 26

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 26

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.83E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.83E-08 | |
| 0002 | 6.31E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.31E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.16E-07 | |
| 0005 | 9.82E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.82E-07 | |
| 0006 | 2.20E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E-08 | |
| SUM | 1.31E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-06 | 382054 | 3765500 |

DOMINANT PATHWAYS, Receptor 27

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 27

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.93E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.93E-08 | |
| 0002 | 6.40E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.40E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.18E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-07 | |
| 0005 | 9.82E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.82E-07 | |
| 0006 | 2.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.24E-08 | |
| SUM | 1.32E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-06 | 382074 | 3765500 |

DOMINANT PATHWAYS, Receptor 28

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 28

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.56E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.56E-08 | |
| 0002 | 6.12E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.12E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.09E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E-07 | |
| 0005 | 9.53E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.53E-07 | |
| 0006 | 2.14E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-08 | |
| SUM | 1.28E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-06 | 382094 3765500 |

DOMINANT PATHWAYS, Receptor 29

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 29

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.51E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.51E-08 | |
| 0002 | 6.08E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.08E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.08E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E-07 | |
| 0005 | 9.47E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.47E-07 | |
| 0006 | 2.12E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.12E-08 | |
| SUM | 1.27E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-06 | 382114 3765500 |

DOMINANT PATHWAYS, Receptor 30

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 30

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.36E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.36E-08 | |
| 0002 | 5.97E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-07 | |
| 0005 | 9.33E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.33E-07 | |
| 0006 | 2.08E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E-08 | |
| SUM | 1.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-06 | 382134 3765500 |

DOMINANT PATHWAYS, Receptor 31

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 31

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.08E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.08E-07 |
| 0002 | 7.68E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.68E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 2.64E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.64E-07 |
| 0005 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.23E-06 |
| 0006 | 2.67E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.67E-08 |
| SUM | 1.63E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 381954 | 3765520 |

DOMINANT PATHWAYS, Receptor 32

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 32

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.21E-07 |
| 0002 | 8.64E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.64E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 2.97E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.97E-07 |
| 0005 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.38E-06 |
| 0006 | 3.01E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.01E-08 |
| SUM | 1.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 381974 | 3765520 |

DOMINANT PATHWAYS, Receptor 33

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 33

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.73E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.73E-08 |
| 0002 | 6.93E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 6.93E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 2.38E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.38E-07 |
| 0005 | 1.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.10E-06 |
| 0006 | 2.42E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.42E-08 |
| SUM | 1.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 381994 | 3765520 |

DOMINANT PATHWAYS, Receptor 34

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 34

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.07E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-07 |
| 0002 | 7.66E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.66E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.63E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E-07 |
| 0005 | 1.22E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-06 |
| 0006 | 2.67E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.67E-08 |
| SUM | 1.62E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-06 | 382014 3765520 |

DOMINANT PATHWAYS, Receptor 35

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 35

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 7.92E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.92E-08 |
| 0002 | 5.66E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.66E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 1.94E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-07 |
| 0005 | 8.86E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.86E-07 |
| 0006 | 1.97E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-08 |
| SUM | 1.18E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E-06 | 382034 3765520 |

DOMINANT PATHWAYS, Receptor 36

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 36

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.35E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.35E-08 |
| 0002 | 5.97E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-07 |
| 0005 | 9.31E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.31E-07 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | 2.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E-08 | | |
| SUM | 1.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-06 | 382054 | 3765520 |

DOMINANT PATHWAYS, Receptor 37

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 37

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.50E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.50E-08 | |
| 0002 | 6.08E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.08E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.08E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E-07 | |
| 0005 | 9.35E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.35E-07 | |
| 0006 | 2.13E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-08 | |
| SUM | 1.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-06 | 382074 | 3765520 |

DOMINANT PATHWAYS, Receptor 38

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 38

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.13E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.13E-08 | |
| 0002 | 5.81E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 1.99E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-07 | |
| 0005 | 9.11E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.11E-07 | |
| 0006 | 2.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.03E-08 | |
| SUM | 1.22E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-06 | 382094 | 3765520 |

DOMINANT PATHWAYS, Receptor 39

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 39

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.22E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.22E-08 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | 5.87E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.87E-09 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 2.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-07 | | |
| 0005 | 9.20E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.20E-07 | | |
| 0006 | 2.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-08 | | |
| SUM | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382114 | 3765520 |

DOMINANT PATHWAYS, Receptor 40

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 40

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.26E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.26E-08 | |
| 0002 | 5.90E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.90E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.02E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-07 | |
| 0005 | 9.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.24E-07 | |
| 0006 | 2.06E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-08 | |
| SUM | 1.24E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-06 | 382134 | 3765520 |

DOMINANT PATHWAYS, Receptor 41

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 41

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-07 | |
| 0002 | 7.40E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.40E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.54E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-07 | |
| 0005 | 1.18E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E-06 | |
| 0006 | 2.58E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.58E-08 | |
| SUM | 1.57E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-06 | 381954 | 3765540 |

DOMINANT PATHWAYS, Receptor 42

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 42

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.17E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.17E-07 | |
| 0002 | 8.33E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.33E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.86E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.86E-07 | |
| 0005 | 1.33E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-06 | |
| 0006 | 2.90E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-08 | |
| SUM | 1.77E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-06 | 381974 3765540 |

DOMINANT PATHWAYS, Receptor 43

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 43

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.28E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.28E-08 | |
| 0002 | 6.62E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.62E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.27E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.27E-07 | |
| 0005 | 1.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-06 | |
| 0006 | 2.31E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.31E-08 | |
| SUM | 1.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-06 | 381994 3765540 |

DOMINANT PATHWAYS, Receptor 44

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 44

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.02E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-07 | |
| 0002 | 7.31E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.31E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.51E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-07 | |
| 0005 | 1.16E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-06 | |
| 0006 | 2.55E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-08 | |
| SUM | 1.55E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-06 | 382014 3765540 |

DOMINANT PATHWAYS, Receptor 45

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 45

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.15E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-07 | |
| 0002 | 8.22E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.22E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.82E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.82E-07 | |
| 0005 | 1.31E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-06 | |
| 0006 | 2.87E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E-08 | |
| SUM | 1.74E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-06 | 382034 3765540 |

DOMINANT PATHWAYS, Receptor 46

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 46

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.02E-08 | |
| 0002 | 5.73E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.73E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 1.96E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-07 | |
| 0005 | 8.95E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.95E-07 | |
| 0006 | 2.00E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-08 | |
| SUM | 1.20E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-06 | 382054 3765540 |

DOMINANT PATHWAYS, Receptor 47

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 47

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.24E-08 | |
| 0002 | 5.89E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.89E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-07 | |
| 0005 | 9.09E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.09E-07 | |
| 0006 | 2.06E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-08 | |
| SUM | 1.22E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-06 | 382074 3765540 |

DOMINANT PATHWAYS, Receptor 48

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 48

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.00E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.00E-08 | |
| 0002 | 5.71E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.71E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 1.96E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-07 | |
| 0005 | 8.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.98E-07 | |
| 0006 | 1.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-08 | |
| SUM | 1.20E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-06 | 382094 3765540 |

DOMINANT PATHWAYS, Receptor 49

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 49

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.24E-08 | |
| 0002 | 5.88E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.88E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.02E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-07 | |
| 0005 | 9.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.24E-07 | |
| 0006 | 2.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-08 | |
| SUM | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382114 3765540 |

DOMINANT PATHWAYS, Receptor 50

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 50

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.45E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.45E-08 | |
| 0002 | 6.04E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.04E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.07E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-07 | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0005 | 9.46E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.46E-07 | | | |
| 0006 | 2.11E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.11E-08 | | | |
| SUM | 1.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-06 | 382134 | 3765540 | |

DOMINANT PATHWAYS, Receptor 51

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 51

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.98E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.98E-08 |
| 0002 | 7.11E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.11E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.44E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-07 |
| 0005 | 1.14E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-06 |
| 0006 | 2.48E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.48E-08 |
| SUM | 1.51E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.51E-06 | 381954 | 3765560 |

DOMINANT PATHWAYS, Receptor 52

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 52

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.12E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-07 |
| 0002 | 7.98E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.98E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.74E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-07 |
| 0005 | 1.28E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-06 |
| 0006 | 2.78E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-08 |
| SUM | 1.70E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E-06 | 381974 | 3765560 |

DOMINANT PATHWAYS, Receptor 53

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 53

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.88E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.88E-08 | | |
| 0002 | 6.33E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.33E-09 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 2.17E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-07 | | |
| 0005 | 1.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-06 | | |
| 0006 | 2.21E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-08 | | |
| SUM | 1.34E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-06 | 381994 | 3765560 |

DOMINANT PATHWAYS, Receptor 54

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 54

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.77E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.77E-08 | |
| 0002 | 6.96E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.96E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.39E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-07 | |
| 0005 | 1.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-06 | |
| 0006 | 2.43E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.43E-08 | |
| SUM | 1.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-06 | 382014 | 3765560 |

DOMINANT PATHWAYS, Receptor 55

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 55

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.09E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-07 | |
| 0002 | 7.77E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.77E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.67E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.67E-07 | |
| 0005 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | |
| 0006 | 2.71E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-08 | |
| SUM | 1.65E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-06 | 382034 | 3765560 |

DOMINANT PATHWAYS, Receptor 56

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 56

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 7.79E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.79E-08 |
| 0002 | 5.57E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.57E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 1.91E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-07 |
| 0005 | 8.71E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.71E-07 |
| 0006 | 1.94E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-08 |
| SUM | 1.16E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-06 | 382054 3765560 |

DOMINANT PATHWAYS, Receptor 57

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 57

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.36E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.36E-08 |
| 0002 | 5.98E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.98E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-07 |
| 0005 | 9.30E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.30E-07 |
| 0006 | 2.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E-08 |
| SUM | 1.24E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-06 | 382074 3765560 |

DOMINANT PATHWAYS, Receptor 58

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 58

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.71E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.71E-08 |
| 0002 | 6.24E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.24E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.13E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-07 |
| 0005 | 9.57E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.57E-07 |
| 0006 | 2.18E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-08 |
| SUM | 1.29E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-06 | 382094 3765560 |

DOMINANT PATHWAYS, Receptor 59

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | YES | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 59

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.53E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.53E-08 | |
| 0002 | 6.09E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.09E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.09E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E-07 | |
| 0005 | 9.56E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.56E-07 | |
| 0006 | 2.13E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-08 | |
| SUM | 1.28E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-06 | 382114 3765560 |

DOMINANT PATHWAYS, Receptor 60

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 60

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.02E-08 | |
| 0002 | 6.44E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.44E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.20E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E-07 | |
| 0005 | 1.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-06 | |
| 0006 | 2.25E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-08 | |
| SUM | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 | 382134 3765560 |

DOMINANT PATHWAYS, Receptor 61

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 61

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.55E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.55E-08 | |
| 0002 | 6.80E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.80E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.34E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.34E-07 | |
| 0005 | 1.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-06 | |
| 0006 | 2.37E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.37E-08 | |
| SUM | 1.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-06 | 381954 3765580 |

DOMINANT PATHWAYS, Receptor 62

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 62

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.07E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-07 |
| 0002 | 7.59E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.59E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.61E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-07 |
| 0005 | 1.22E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-06 |
| 0006 | 2.64E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.64E-08 |
| SUM | 1.62E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-06 | 381974 3765580 |

DOMINANT PATHWAYS, Receptor 63

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 63

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-07 |
| 0002 | 8.61E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.61E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.96E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.96E-07 |
| 0005 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 |
| 0006 | 3.00E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.00E-08 |
| SUM | 1.83E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-06 | 381994 3765580 |

DOMINANT PATHWAYS, Receptor 64

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 64

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.32E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.32E-08 |
| 0002 | 6.64E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.64E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0004 | 2.28E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E-07 | | |
| 0005 | 1.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-06 | | |
| 0006 | 2.32E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.32E-08 | | |
| SUM | 1.41E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-06 | 382014 | 3765580 |

DOMINANT PATHWAYS, Receptor 65

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 65

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.03E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-07 | |
| 0002 | 7.35E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.35E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.52E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.52E-07 | |
| 0005 | 1.17E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.17E-06 | |
| 0006 | 2.56E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-08 | |
| SUM | 1.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-06 | 382034 | 3765580 |

DOMINANT PATHWAYS, Receptor 66

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 66

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-07 | |
| 0002 | 8.24E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.24E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.83E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.83E-07 | |
| 0005 | 1.31E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-06 | |
| 0006 | 2.87E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E-08 | |
| SUM | 1.74E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-06 | 382054 | 3765580 |

DOMINANT PATHWAYS, Receptor 67

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 67

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.24E-08 | |
| 0002 | 5.89E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.89E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-07 | |
| 0005 | 9.20E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.20E-07 | |
| 0006 | 2.06E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-08 | |
| SUM | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382074 3765580 |

DOMINANT PATHWAYS, Receptor 68

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 68

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.95E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.95E-08 | |
| 0002 | 6.41E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.41E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.19E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-07 | |
| 0005 | 9.95E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.95E-07 | |
| 0006 | 2.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.24E-08 | |
| SUM | 1.33E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-06 | 382094 3765580 |

DOMINANT PATHWAYS, Receptor 69

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 69

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.38E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.38E-08 | |
| 0002 | 6.72E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.72E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.29E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-07 | |
| 0005 | 1.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-06 | |
| 0006 | 2.35E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-08 | |
| SUM | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 | 382114 3765580 |

DOMINANT PATHWAYS, Receptor 70

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 70

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.34E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.34E-08 |
| 0002 | 6.68E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.68E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.28E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E-07 |
| 0005 | 1.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-06 |
| 0006 | 2.33E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.33E-08 |
| SUM | 1.39E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-06 | 382134 3765580 |

DOMINANT PATHWAYS, Receptor 71

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 71

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.12E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.12E-08 |
| 0002 | 6.50E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.50E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.23E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.23E-07 |
| 0005 | 1.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-06 |
| 0006 | 2.26E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.26E-08 |
| SUM | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 | 381954 3765600 |

DOMINANT PATHWAYS, Receptor 72

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 72

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-07 |
| 0002 | 7.20E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.20E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.47E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-07 |
| 0005 | 1.15E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-06 |
| 0006 | 2.51E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-08 |
| SUM | 1.53E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E-06 | 381974 3765600 |

DOMINANT PATHWAYS, Receptor 73

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 73

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.13E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.13E-07 |
| 0002 | 8.06E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.06E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 2.77E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.77E-07 |
| 0005 | 1.29E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.29E-06 |
| 0006 | 2.81E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.81E-08 |
| SUM | 1.72E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E-06 | 381994 3765600 |

DOMINANT PATHWAYS, Receptor 74

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 74

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.29E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.29E-07 |
| 0002 | 9.15E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.15E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.15E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.15E-07 |
| 0005 | 1.46E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.46E-06 |
| 0006 | 3.19E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.19E-08 |
| SUM | 1.95E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-06 | 382014 3765600 |

DOMINANT PATHWAYS, Receptor 75

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 75

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.81E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.81E-08 |
| 0002 | 6.99E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 6.99E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 2.40E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.40E-07 |
| 0005 | 1.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.11E-06 |
| 0006 | 2.44E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.44E-08 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SUM | 1.48E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-06 | 382034 | 3765600 |

DOMINANT PATHWAYS, Receptor 76

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 76

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.09E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-07 | |
| 0002 | 7.75E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.75E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.66E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-07 | |
| 0005 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | |
| 0006 | 2.70E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-08 | |
| SUM | 1.64E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-06 | 382054 3765600 |

DOMINANT PATHWAYS, Receptor 77

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 77

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.22E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-07 | |
| 0002 | 8.68E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.68E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.98E-07 | |
| 0005 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 | |
| 0006 | 3.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-08 | |
| SUM | 1.83E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-06 | 382074 3765600 |

DOMINANT PATHWAYS, Receptor 78

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 78

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.09E-08 | |
| 0002 | 6.50E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.50E-09 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 2.22E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.22E-07 | | |
| 0005 | 1.02E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-06 | | |
| 0006 | 2.27E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.27E-08 | | |
| SUM | 1.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-06 | 382094 | 3765600 |

DOMINANT PATHWAYS, Receptor 79

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 79

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.59E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.59E-08 | |
| 0002 | 6.87E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.87E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.35E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-07 | |
| 0005 | 1.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-06 | |
| 0006 | 2.40E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.40E-08 | |
| SUM | 1.42E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-06 | 382114 | 3765600 |

DOMINANT PATHWAYS, Receptor 80

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 80

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.64E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.64E-08 | |
| 0002 | 6.88E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.36E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.36E-07 | |
| 0005 | 1.08E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-06 | |
| 0006 | 2.40E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.40E-08 | |
| SUM | 1.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-06 | 382134 | 3765600 |

DOMINANT PATHWAYS, Receptor 81

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 81

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.71E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.71E-08 |
| 0002 | 6.20E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.20E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.13E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-07 |
| 0005 | 9.92E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.92E-07 |
| 0006 | 2.16E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.16E-08 |
| SUM | 1.32E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-06 | 381954 3765620 |

DOMINANT PATHWAYS, Receptor 82

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 82

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.57E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.57E-08 |
| 0002 | 6.82E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.82E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.34E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.34E-07 |
| 0005 | 1.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-06 |
| 0006 | 2.37E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.37E-08 |
| SUM | 1.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-06 | 381974 3765620 |

DOMINANT PATHWAYS, Receptor 83

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 83

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.06E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-07 |
| 0002 | 7.56E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.56E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.60E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.60E-07 |
| 0005 | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 |
| 0006 | 2.63E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.63E-08 |
| SUM | 1.61E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-06 | 381994 3765620 |

DOMINANT PATHWAYS, Receptor 84

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 84

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.19E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.19E-07 |
| 0002 | 8.45E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.45E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 2.90E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.90E-07 |
| 0005 | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.35E-06 |
| 0006 | 2.94E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.94E-08 |
| SUM | 1.80E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 382014 | 3765620 |

DOMINANT PATHWAYS, Receptor 85

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 85

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.34E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.34E-07 |
| 0002 | 9.51E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.51E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.27E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.27E-07 |
| 0005 | 1.52E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.52E-06 |
| 0006 | 3.31E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.31E-08 |
| SUM | 2.02E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 382034 | 3765620 |

DOMINANT PATHWAYS, Receptor 86

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 86

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.04E-07 |
| 0002 | 7.39E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.39E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 2.54E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.54E-07 |
| 0005 | 1.17E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.17E-06 |
| 0006 | 2.58E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.58E-08 |
| SUM | 1.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 382054 | 3765620 |

DOMINANT PATHWAYS, Receptor 87

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 87

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.15E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-07 |
| 0002 | 8.21E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.21E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.82E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.82E-07 |
| 0005 | 1.30E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-06 |
| 0006 | 2.86E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.86E-08 |
| SUM | 1.74E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-06 | 382074 3765620 |

DOMINANT PATHWAYS, Receptor 88

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 88

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.29E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-07 |
| 0002 | 9.21E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.21E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.16E-07 |
| 0005 | 1.46E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-06 |
| 0006 | 3.21E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-08 |
| SUM | 1.94E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-06 | 382094 3765620 |

DOMINANT PATHWAYS, Receptor 89

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 89

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.41E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-07 |
| 0002 | 1.00E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.44E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.44E-07 |
| 0005 | 1.58E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-06 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | 3.50E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.50E-08 | | |
| SUM | 2.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.11E-06 | 382114 | 3765620 |

DOMINANT PATHWAYS, Receptor 90

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 90

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.03E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-07 | |
| 0002 | 7.38E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.38E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.53E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-07 | |
| 0005 | 1.17E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.17E-06 | |
| 0006 | 2.57E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.57E-08 | |
| SUM | 1.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-06 | 382134 | 3765620 |

DOMINANT PATHWAYS, Receptor 91

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 91

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.32E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.32E-08 | |
| 0002 | 5.93E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.93E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-07 | |
| 0005 | 9.48E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.48E-07 | |
| 0006 | 2.06E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-08 | |
| SUM | 1.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-06 | 381954 | 3765640 |

DOMINANT PATHWAYS, Receptor 92

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 92

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.09E-08 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | 6.47E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.47E-09 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 2.22E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.22E-07 | | |
| 0005 | 1.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-06 | | |
| 0006 | 2.25E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-08 | | |
| SUM | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 | 381974 | 3765640 |

DOMINANT PATHWAYS, Receptor 93

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 93

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 9.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.99E-08 | |
| 0002 | 7.11E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.11E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.44E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E-07 | |
| 0005 | 1.14E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-06 | |
| 0006 | 2.48E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.48E-08 | |
| SUM | 1.51E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.51E-06 | 381994 | 3765640 |

DOMINANT PATHWAYS, Receptor 94

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 94

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.10E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-07 | |
| 0002 | 7.86E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.86E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-07 | |
| 0005 | 1.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-06 | |
| 0006 | 2.74E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-08 | |
| SUM | 1.67E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-06 | 382014 | 3765640 |

DOMINANT PATHWAYS, Receptor 95

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 95

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.23E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-07 | |
| 0002 | 8.73E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.73E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.00E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.00E-07 | |
| 0005 | 1.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-06 | |
| 0006 | 3.04E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-08 | |
| SUM | 1.86E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-06 | 382034 3765640 |

DOMINANT PATHWAYS, Receptor 96

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 96

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.37E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E-07 | |
| 0002 | 9.72E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.72E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.34E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-07 | |
| 0005 | 1.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-06 | |
| 0006 | 3.39E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.39E-08 | |
| SUM | 2.07E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-06 | 382054 3765640 |

DOMINANT PATHWAYS, Receptor 97

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 97

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.52E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E-07 | |
| 0002 | 1.08E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.72E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.72E-07 | |
| 0005 | 1.73E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.73E-06 | |
| 0006 | 3.77E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.77E-08 | |
| SUM | 2.30E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-06 | 382074 3765640 |

DOMINANT PATHWAYS, Receptor 98

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 98

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.24E-07 |
| 0002 | 8.85E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.85E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.04E-07 |
| 0005 | 1.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.40E-06 |
| 0006 | 3.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.09E-08 |
| SUM | 1.87E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-06 | 382094 3765640 |

DOMINANT PATHWAYS, Receptor 99

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 99

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.36E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.36E-07 |
| 0002 | 9.73E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.73E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.34E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.34E-07 |
| 0005 | 1.54E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.54E-06 |
| 0006 | 3.39E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.39E-08 |
| SUM | 2.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-06 | 382114 3765640 |

DOMINANT PATHWAYS, Receptor 100

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 100

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.54E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.54E-07 |
| 0002 | 1.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.10E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.78E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.78E-07 |
| 0005 | 1.73E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.73E-06 |
| 0006 | 3.85E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.85E-08 |
| SUM | 2.31E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.31E-06 | 382134 3765640 |

DOMINANT PATHWAYS, Receptor 101

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 101

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.22E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.22E-08 | |
| 0002 | 5.88E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.88E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-07 | |
| 0005 | 9.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.16E-07 | |
| 0006 | 2.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-08 | |
| SUM | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 3765565 |

DOMINANT PATHWAYS, Receptor 102

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 102

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.22E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.22E-08 | |
| 0002 | 5.88E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.88E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-07 | |
| 0005 | 9.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.16E-07 | |
| 0006 | 2.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-08 | |
| SUM | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 3765565 |

DOMINANT PATHWAYS, Receptor 103

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 103

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.22E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.22E-08 | |
| 0002 | 5.88E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.88E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-07 | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0005 | 9.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.16E-07 | | | |
| 0006 | 2.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-08 | | | |
| SUM | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 | 3765565 | |

DOMINANT PATHWAYS, Receptor 104

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 104

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.22E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.22E-08 |
| 0002 | 5.88E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.88E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-07 |
| 0005 | 9.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.16E-07 |
| 0006 | 2.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-08 |
| SUM | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 | 3765565 |

DOMINANT PATHWAYS, Receptor 105

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 105

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.22E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.22E-08 |
| 0002 | 5.88E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.88E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-07 |
| 0005 | 9.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.16E-07 |
| 0006 | 2.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-08 |
| SUM | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 | 3765565 |

DOMINANT PATHWAYS, Receptor 106

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 106

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.22E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.22E-08 | | |
| 0002 | 5.88E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.88E-09 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 2.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-07 | | |
| 0005 | 9.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.16E-07 | | |
| 0006 | 2.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-08 | | |
| SUM | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 | 3765565 |

DOMINANT PATHWAYS, Receptor 107

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 107

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.22E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.22E-08 | |
| 0002 | 5.88E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.88E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-07 | |
| 0005 | 9.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.16E-07 | |
| 0006 | 2.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-08 | |
| SUM | 1.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 382071 | 3765565 |

DOMINANT PATHWAYS, Receptor 108

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 108

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.10E-08 | |
| 0002 | 5.79E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 1.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-07 | |
| 0005 | 9.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.04E-07 | |
| 0006 | 2.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-08 | |
| SUM | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 | 3765530 |

DOMINANT PATHWAYS, Receptor 109

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 109

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.10E-08 |
| 0002 | 5.79E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 1.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-07 |
| 0005 | 9.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.04E-07 |
| 0006 | 2.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-08 |
| SUM | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 110

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 110

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.10E-08 |
| 0002 | 5.79E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 1.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-07 |
| 0005 | 9.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.04E-07 |
| 0006 | 2.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-08 |
| SUM | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 111

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 111

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.10E-08 |
| 0002 | 5.79E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 1.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-07 |
| 0005 | 9.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.04E-07 |
| 0006 | 2.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-08 |
| SUM | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 112

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 112

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.10E-08 | |
| 0002 | 5.79E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 1.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-07 | |
| 0005 | 9.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.04E-07 | |
| 0006 | 2.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-08 | |
| SUM | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 113

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 113

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.10E-08 | |
| 0002 | 5.79E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 1.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-07 | |
| 0005 | 9.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.04E-07 | |
| 0006 | 2.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-08 | |
| SUM | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 114

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 114

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 8.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.10E-08 | |
| 0002 | 5.79E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 1.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-07 | |
| 0005 | 9.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.04E-07 | |
| 0006 | 2.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-08 | |
| SUM | 1.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-06 | 382051 3765530 |

This file: c:\HARP\projects\demo\Rep_Can_9yrC_DerOEH_AllRec_AllSrc_AllCh_ByRec_Site_UTM.txt

Created by HARP Version 1.4f  Build 23.11.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 11/7/2016 10:49:24 AM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: USC.EMS
Site parameters file: c:\HARP\projects\demo\project.sit

Screening mode is OFF

Exposure duration: 9 year (child resident)
Analysis method: Derived (OEHHA) Method
Health effect: Cancer Risk
Receptor(s): All
Sources(s): All
Chemicals(s): All

SITE PARAMETERS

DEPOSITION

Deposition rate (m/s) 0.05

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

*** Pathway disabled ***

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway disabled ***

SOIL INGESTION

*** Pathway disabled ***

MOTHER'S MILK

*** Pathway disabled ***

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

| CHEM | CAS | ABBREVIATION | POLLUTANT NAME | BACKGROUND (ug/m^3) |
|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 1,3-Butadiene | 0.000E+00 |
| 0002 | 75070 | Acetaldehyde | Acetaldehyde | 0.000E+00 |
| 0003 | 107028 | Acrolein | Acrolein | 0.000E+00 |
| 0004 | 71432 | Benzene | Benzene | 0.000E+00 |
| 0005 | 9901 | DieselExhPM | Diesel engine exhaust, particulate matter (Diesel PM) | 0.000E+00 |
| 0006 | 50000 | Formaldehyde | Formaldehyde | 0.000E+00 |

CHEMICAL HEALTH VALUES

| CHEM | CAS | ABBREVIATION | CancerPF(Inh) (mg/kg-d)^-1 | CancerPF(Oral) (mg/kg-d)^-1 | ChronicREL(Inh) ug/m^3 | ChronicREL(Oral) mg/kg-d | AcuteREL ug/m^3 |
|---|---|---|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 6.00E-01 | * | 2.00E+01 | * | * |
| 0002 | 75070 | Acetaldehyde | 1.00E-02 | * | 1.40E+02 | * | 4.70E+02 |
| 0003 | 107028 | Acrolein | * | * | 3.50E-01 | * | 2.50E+00 |
| 0004 | 71432 | Benzene | 1.00E-01 | * | 6.00E+01 | * | 1.30E+03 |
| 0005 | 9901 | DieselExhPM | 1.10E+00 | * | 5.00E+00 | * | * |
| 0006 | 50000 | Formaldehyde | 2.10E-02 | * | 9.00E+00 | * | 5.50E+01 |

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.EMS
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=1001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=1002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=3 NAME=1003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=4 NAME=1004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=5 NAME=1005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=6 NAME=1006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=7 NAME=1007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=8 NAME=1008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=9 NAME=1009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=10 NAME=1010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=11 NAME=1011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=12 NAME=1012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=13 NAME=1013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=14 NAME=1014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=15 NAME=3001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=16 NAME=3002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=17 NAME=3003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=18 NAME=3004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=19 NAME=3005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=20 NAME=3006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=21 NAME=3007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=22 NAME=3008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=23 NAME=3009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=24 NAME=3010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.95E-01 | 2.23E-05 |
| 75070 | Acetaldehyde | 1 | 0 | 8.72E-01 | 9.96E-05 |
| 107028 | Acrolein | 1 | 0 | 4.87E-02 | 5.56E-06 |
| 71432 | Benzene | 1 | 0 | 2.83E+00 | 3.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 8.18E-01 | 9.34E-05 |
| 50000 | Formaldehyde | 1 | 0 | 1.49E+00 | 1.70E-04 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=25 NAME=3011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=26 NAME=3012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=27 NAME=3013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=28 NAME=3014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=29 NAME=3015 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=30 NAME=3016 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=31 NAME=3017 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=32 NAME=3018 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=33 NAME=3019 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=34 NAME=3020 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |

Cancer_9_child

| | | | | | |
|---|---|---|---|---|---|
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

CANCER RISK REPORT

| REC | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.71E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-06 | 381954 | 3765460 |
| 0002 | 3.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-06 | 381974 | 3765460 |
| 0003 | 3.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.36E-06 | 381994 | 3765460 |
| 0004 | 2.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.82E-06 | 382014 | 3765460 |
| 0005 | 3.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-06 | 382034 | 3765460 |
| 0006 | 2.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-06 | 382054 | 3765460 |
| 0007 | 2.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.11E-06 | 382074 | 3765460 |
| 0008 | 2.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E-06 | 382094 | 3765460 |
| 0009 | 2.14E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-06 | 382114 | 3765460 |
| 0010 | 2.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-06 | 382134 | 3765460 |
| 0011 | 2.60E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.60E-06 | 381954 | 3765480 |
| 0012 | 2.90E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-06 | 381974 | 3765480 |
| 0013 | 3.27E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-06 | 381994 | 3765480 |
| 0014 | 2.65E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.65E-06 | 382014 | 3765480 |
| 0015 | 2.02E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-06 | 382034 | 3765480 |
| 0016 | 2.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.10E-06 | 382054 | 3765480 |
| 0017 | 2.07E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-06 | 382074 | 3765480 |
| 0018 | 2.00E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-06 | 382094 | 3765480 |
| 0019 | 1.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-06 | 382114 | 3765480 |
| 0020 | 1.92E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.92E-06 | 382134 | 3765480 |
| 0021 | 2.50E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-06 | 381954 | 3765500 |
| 0022 | 2.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.81E-06 | 381974 | 3765500 |
| 0023 | 2.28E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E-06 | 381994 | 3765500 |
| 0024 | 2.51E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-06 | 382014 | 3765500 |
| 0025 | 1.86E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-06 | 382034 | 3765500 |
| 0026 | 1.94E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-06 | 382054 | 3765500 |
| 0027 | 1.95E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-06 | 382074 | 3765500 |
| 0028 | 1.89E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-06 | 382094 | 3765500 |
| 0029 | 1.87E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-06 | 382114 | 3765500 |
| 0030 | 1.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-06 | 382134 | 3765500 |
| 0031 | 2.42E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.42E-06 | 381954 | 3765520 |
| 0032 | 2.72E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.72E-06 | 381974 | 3765520 |
| 0033 | 2.17E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-06 | 381994 | 3765520 |
| 0034 | 2.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.40E-06 | 382014 | 3765520 |
| 0035 | 1.75E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-06 | 382034 | 3765520 |
| 0036 | 1.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-06 | 382054 | 3765520 |
| 0037 | 1.86E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-06 | 382074 | 3765520 |
| 0038 | 1.80E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-06 | 382094 | 3765520 |
| 0039 | 1.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.82E-06 | 382114 | 3765520 |
| 0040 | 1.83E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-06 | 382134 | 3765520 |
| 0041 | 2.33E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.33E-06 | 381954 | 3765540 |
| 0042 | 2.62E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-06 | 381974 | 3765540 |
| 0043 | 2.07E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-06 | 381994 | 3765540 |
| 0044 | 2.29E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-06 | 382014 | 3765540 |
| 0045 | 2.57E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.57E-06 | 382034 | 3765540 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0046 | 1.77E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-06 | 382054 | 3765540 |
| 0047 | 1.80E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-06 | 382074 | 3765540 |
| 0048 | 1.77E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-06 | 382094 | 3765540 |
| 0049 | 1.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.82E-06 | 382114 | 3765540 |
| 0050 | 1.87E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-06 | 382134 | 3765540 |
| 0051 | 2.24E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.24E-06 | 381954 | 3765560 |
| 0052 | 2.51E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-06 | 381974 | 3765560 |
| 0053 | 1.98E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-06 | 381994 | 3765560 |
| 0054 | 2.18E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-06 | 382014 | 3765560 |
| 0055 | 2.43E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.43E-06 | 382034 | 3765560 |
| 0056 | 1.72E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E-06 | 382054 | 3765560 |
| 0057 | 1.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-06 | 382074 | 3765560 |
| 0058 | 1.90E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-06 | 382094 | 3765560 |
| 0059 | 1.89E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-06 | 382114 | 3765560 |
| 0060 | 1.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-06 | 382134 | 3765560 |
| 0061 | 2.14E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-06 | 381954 | 3765580 |
| 0062 | 2.39E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-06 | 381974 | 3765580 |
| 0063 | 2.71E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-06 | 381994 | 3765580 |
| 0064 | 2.08E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E-06 | 382014 | 3765580 |
| 0065 | 2.30E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-06 | 382034 | 3765580 |
| 0066 | 2.58E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.58E-06 | 382054 | 3765580 |
| 0067 | 1.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.82E-06 | 382074 | 3765580 |
| 0068 | 1.97E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-06 | 382094 | 3765580 |
| 0069 | 2.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-06 | 382114 | 3765580 |
| 0070 | 2.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-06 | 382134 | 3765580 |
| 0071 | 2.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-06 | 381954 | 3765600 |
| 0072 | 2.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.26E-06 | 381974 | 3765600 |
| 0073 | 2.54E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-06 | 381994 | 3765600 |
| 0074 | 2.88E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-06 | 382014 | 3765600 |
| 0075 | 2.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-06 | 382034 | 3765600 |
| 0076 | 2.43E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.43E-06 | 382054 | 3765600 |
| 0077 | 2.71E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-06 | 382074 | 3765600 |
| 0078 | 2.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-06 | 382094 | 3765600 |
| 0079 | 2.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.10E-06 | 382114 | 3765600 |
| 0080 | 2.14E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-06 | 382134 | 3765600 |
| 0081 | 1.95E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-06 | 381954 | 3765620 |
| 0082 | 2.15E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.15E-06 | 381974 | 3765620 |
| 0083 | 2.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.38E-06 | 381994 | 3765620 |
| 0084 | 2.66E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-06 | 382014 | 3765620 |
| 0085 | 2.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-06 | 382034 | 3765620 |
| 0086 | 2.31E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.31E-06 | 382054 | 3765620 |
| 0087 | 2.57E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.57E-06 | 382074 | 3765620 |
| 0088 | 2.88E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-06 | 382094 | 3765620 |
| 0089 | 3.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-06 | 382114 | 3765620 |
| 0090 | 2.30E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-06 | 382134 | 3765620 |
| 0091 | 1.87E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-06 | 381954 | 3765640 |
| 0092 | 2.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-06 | 381974 | 3765640 |
| 0093 | 2.24E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.24E-06 | 381994 | 3765640 |
| 0094 | 2.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-06 | 382014 | 3765640 |
| 0095 | 2.75E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-06 | 382034 | 3765640 |
| 0096 | 3.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.06E-06 | 382054 | 3765640 |
| 0097 | 3.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-06 | 382074 | 3765640 |
| 0098 | 2.77E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.77E-06 | 382094 | 3765640 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0099 | 3.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-06 | 382114 | 3765640 |
| 0100 | 3.42E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.42E-06 | 382134 | 3765640 |
| 0101 | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 | 3765565 |
| 0102 | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 | 3765565 |
| 0103 | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 | 3765565 |
| 0104 | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 | 3765565 |
| 0105 | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 | 3765565 |
| 0106 | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 | 3765565 |
| 0107 | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 | 3765565 |
| 0108 | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 | 3765530 |
| 0109 | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 | 3765530 |
| 0110 | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 | 3765530 |
| 0111 | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 | 3765530 |
| 0112 | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 | 3765530 |
| 0113 | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 | 3765530 |
| 0114 | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 | 3765530 |

Created by HARP Version 1.4f  Build 23.11.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 11/7/2016 10:39:21 AM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: USC.EMS
Site parameters file: c:\HARP\projects\demo\project.sit

Screening mode is OFF

Exposure duration: 9 year (child resident)
Analysis method: Derived (OEHHA) Method
Health effect: Cancer Risk
Receptor(s): All
Sources(s): All
Chemicals(s): All

SITE PARAMETERS

DEPOSITION

Deposition rate (m/s) 0.05

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

*** Pathway disabled ***

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway disabled ***

SOIL INGESTION

*** Pathway disabled ***

MOTHER'S MILK

*** Pathway disabled ***

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

| CHEM | CAS | ABBREVIATION | POLLUTANT NAME | BACKGROUND (ug/m^3) |
|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 1,3-Butadiene | 0.000E+00 |
| 0002 | 75070 | Acetaldehyde | Acetaldehyde | 0.000E+00 |
| 0003 | 107028 | Acrolein | Acrolein | 0.000E+00 |
| 0004 | 71432 | Benzene | Benzene | 0.000E+00 |
| 0005 | 9901 | DieselExhPM | Diesel engine exhaust, particulate matter (Diesel PM) | 0.000E+00 |
| 0006 | 50000 | Formaldehyde | Formaldehyde | 0.000E+00 |

CHEMICAL HEALTH VALUES

| CHEM | CAS | ABBREVIATION | CancerPF(Inh) (mg/kg-d)^-1 | CancerPF(Oral) (mg/kg-d)^-1 | ChronicREL(Inh) ug/m^3 | ChronicREL(Oral) mg/kg-d | AcuteREL ug/m^3 |
|---|---|---|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 6.00E-01 | * | 2.00E+01 | * | * |
| 0002 | 75070 | Acetaldehyde | 1.00E-02 | * | 1.40E+02 | * | 4.70E+02 |
| 0003 | 107028 | Acrolein | * | * | 3.50E-01 | * | 2.50E+00 |
| 0004 | 71432 | Benzene | 1.00E-01 | * | 6.00E+01 | * | 1.30E+03 |
| 0005 | 9901 | DieselExhPM | 1.10E+00 | * | 5.00E+00 | * | * |
| 0006 | 50000 | Formaldehyde | 2.10E-02 | * | 9.00E+00 | * | 5.50E+01 |

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.EMS
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=1001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=1002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=3 NAME=1003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=4 NAME=1004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=5 NAME=1005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=6 NAME=1006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=7 NAME=1007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=8 NAME=1008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=9 NAME=1009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=10 NAME=1010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=11 NAME=1011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=12 NAME=1012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=13 NAME=1013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=14 NAME=1014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=15 NAME=3001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=16 NAME=3002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=17 NAME=3003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=18 NAME=3004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=19 NAME=3005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=20 NAME=3006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=21 NAME=3007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=22 NAME=3008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=23 NAME=3009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=24 NAME=3010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.95E-01 | 2.23E-05 |
| 75070 | Acetaldehyde | 1 | 0 | 8.72E-01 | 9.96E-05 |
| 107028 | Acrolein | 1 | 0 | 4.87E-02 | 5.56E-06 |
| 71432 | Benzene | 1 | 0 | 2.83E+00 | 3.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 8.18E-01 | 9.34E-05 |
| 50000 | Formaldehyde | 1 | 0 | 1.49E+00 | 1.70E-04 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=25 NAME=3011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=26 NAME=3012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=27 NAME=3013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=28 NAME=3014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=29 NAME=3015 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=30 NAME=3016 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=31 NAME=3017 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=32 NAME=3018 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=33 NAME=3019 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=34 NAME=3020 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |

| | | | | | |
|---|---|---|---|---|---|
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

CANCER RISK REPORT

DOMINANT PATHWAYS, Receptor 1

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 1

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.79E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-07 | |
| 0002 | 1.28E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 4.39E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.39E-07 | |
| 0005 | 2.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-06 | |
| 0006 | 4.45E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.45E-08 | |
| SUM | 2.71E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-06 | 381954 3765460 |

DOMINANT PATHWAYS, Receptor 2

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 2

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.99E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-07 | |
| 0002 | 1.42E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 4.86E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.86E-07 | |
| 0005 | 2.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.26E-06 | |
| 0006 | 4.93E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.93E-08 | |
| SUM | 3.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-06 | 381974 3765460 |

DOMINANT PATHWAYS, Receptor 3

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 3

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.22E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.22E-07 |
| 0002 | 1.58E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 5.43E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.43E-07 |
| 0005 | 2.52E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.52E-06 |
| 0006 | 5.51E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.51E-08 |
| SUM | 3.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.36E-06 | 381994 3765460 |

DOMINANT PATHWAYS, Receptor 4

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 4

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.87E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-07 |
| 0002 | 1.34E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 4.58E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.58E-07 |
| 0005 | 2.12E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.12E-06 |
| 0006 | 4.66E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.66E-08 |
| SUM | 2.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.82E-06 | 382014 3765460 |

DOMINANT PATHWAYS, Receptor 5

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 5

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.06E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-07 |
| 0002 | 1.47E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 5.05E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.05E-07 |
| 0005 | 2.33E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.33E-06 |
| 0006 | 5.14E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.14E-08 |
| SUM | 3.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-06 | 382034 3765460 |

DOMINANT PATHWAYS, Receptor 6

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 6

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.52E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E-07 | |
| 0002 | 1.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.72E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.72E-07 | |
| 0005 | 1.67E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-06 | |
| 0006 | 3.80E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E-08 | |
| SUM | 2.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-06 | 382054 3765460 |

DOMINANT PATHWAYS, Receptor 7

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 7

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.40E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-07 | |
| 0002 | 1.00E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.43E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-07 | |
| 0005 | 1.58E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-06 | |
| 0006 | 3.50E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.50E-08 | |
| SUM | 2.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.11E-06 | 382074 3765460 |

DOMINANT PATHWAYS, Receptor 8

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 8

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.39E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-07 | |
| 0002 | 9.95E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.95E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.41E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.41E-07 | |
| 0005 | 1.57E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-06 | |
| 0006 | 3.47E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.47E-08 | |
| SUM | 2.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E-06 | 382094 3765460 |

DOMINANT PATHWAYS, Receptor 9

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 9

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.42E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.42E-07 |
| 0002 | 1.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.02E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.48E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.48E-07 |
| 0005 | 1.60E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.60E-06 |
| 0006 | 3.55E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.55E-08 |
| SUM | 2.14E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-06 | 382114 3765460 |

DOMINANT PATHWAYS, Receptor 10

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 10

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.36E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.36E-07 |
| 0002 | 9.73E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.73E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.33E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.33E-07 |
| 0005 | 1.53E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.53E-06 |
| 0006 | 3.40E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.40E-08 |
| SUM | 2.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-06 | 382134 3765460 |

DOMINANT PATHWAYS, Receptor 11

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 11

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.71E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.71E-07 |
| 0002 | 1.22E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.22E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0004 | 4.19E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E-07 | | |
| 0005 | 1.95E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-06 | | |
| 0006 | 4.25E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.25E-08 | | |
| SUM | 2.60E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.60E-06 | 381954 | 3765480 |

DOMINANT PATHWAYS, Receptor 12

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 12

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.91E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-07 | |
| 0002 | 1.36E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 4.68E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.68E-07 | |
| 0005 | 2.18E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-06 | |
| 0006 | 4.74E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.74E-08 | |
| SUM | 2.90E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-06 | 381974 | 3765480 |

DOMINANT PATHWAYS, Receptor 13

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 13

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.16E-07 | |
| 0002 | 1.54E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 5.29E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.29E-07 | |
| 0005 | 2.46E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.46E-06 | |
| 0006 | 5.36E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.36E-08 | |
| SUM | 3.27E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-06 | 381994 | 3765480 |

DOMINANT PATHWAYS, Receptor 14

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 14

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.76E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.76E-07 |
| 0002 | 1.25E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.25E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 4.30E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.30E-07 |
| 0005 | 1.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.99E-06 |
| 0006 | 4.37E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.37E-08 |
| SUM | 2.65E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.65E-06 | 382014 3765480 |

DOMINANT PATHWAYS, Receptor 15

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 15

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.35E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.35E-07 |
| 0002 | 9.64E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.64E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.30E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.30E-07 |
| 0005 | 1.51E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.51E-06 |
| 0006 | 3.36E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.36E-08 |
| SUM | 2.02E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-06 | 382034 3765480 |

DOMINANT PATHWAYS, Receptor 16

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 16

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.41E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.41E-07 |
| 0002 | 1.01E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.01E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.46E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.46E-07 |
| 0005 | 1.57E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.57E-06 |
| 0006 | 3.53E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.53E-08 |
| SUM | 2.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.10E-06 | 382054 3765480 |

DOMINANT PATHWAYS, Receptor 17

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 17

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.37E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E-07 |
| 0002 | 9.81E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.81E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.36E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.36E-07 |
| 0005 | 1.55E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-06 |
| 0006 | 3.42E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.42E-08 |
| SUM | 2.07E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-06 | 382074 3765480 |

DOMINANT PATHWAYS, Receptor 18

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 18

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.34E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-07 |
| 0002 | 9.56E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.56E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.27E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-07 |
| 0005 | 1.49E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E-06 |
| 0006 | 3.34E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-08 |
| SUM | 2.00E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-06 | 382094 3765480 |

DOMINANT PATHWAYS, Receptor 19

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 19

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.35E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-07 |
| 0002 | 9.63E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.63E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.29E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-07 |
| 0005 | 1.49E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E-06 |
| 0006 | 3.36E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.36E-08 |
| SUM | 1.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-06 | 382114 3765480 |

DOMINANT PATHWAYS, Receptor 20

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 20

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.29E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-07 |
| 0002 | 9.25E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.25E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.16E-07 |
| 0005 | 1.43E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-06 |
| 0006 | 3.23E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-08 |
| SUM | 1.92E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.92E-06 382134 3765480 |

DOMINANT PATHWAYS, Receptor 21

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 21

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.65E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-07 |
| 0002 | 1.18E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 4.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.04E-07 |
| 0005 | 1.88E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.88E-06 |
| 0006 | 4.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E-08 |
| SUM | 2.50E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-06 381954 3765500 |

DOMINANT PATHWAYS, Receptor 22

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 22

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.85E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-07 |
| 0002 | 1.32E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 4.53E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.53E-07 |
| 0005 | 2.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.11E-06 |
| 0006 | 4.60E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.60E-08 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SUM | 2.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.81E-06 | 381974 | 3765500 |

DOMINANT PATHWAYS, Receptor 23

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 23

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.51E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.51E-07 | | |
| 0002 | 1.08E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.70E-07 | | |
| 0005 | 1.71E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.71E-06 | | |
| 0006 | 3.76E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.76E-08 | | |
| SUM | 2.28E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E-06 | 381994 | 3765500 |

DOMINANT PATHWAYS, Receptor 24

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 24

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.67E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-07 | | |
| 0002 | 1.19E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.19E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 4.08E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.08E-07 | | |
| 0005 | 1.89E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-06 | | |
| 0006 | 4.14E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.14E-08 | | |
| SUM | 2.51E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-06 | 382014 | 3765500 |

DOMINANT PATHWAYS, Receptor 25

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 25

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-07 | | |
| 0002 | 8.88E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.88E-09 | | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-07 | | |
| 0005 | 1.39E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-06 | | |
| 0006 | 3.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-08 | | |
| SUM | 1.86E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-06 | 382034 | 3765500 |

DOMINANT PATHWAYS, Receptor 26

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 26

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.30E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-07 | | |
| 0002 | 9.33E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.33E-09 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.19E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-07 | | |
| 0005 | 1.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-06 | | |
| 0006 | 3.26E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-08 | | |
| SUM | 1.94E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-06 | 382054 | 3765500 |

DOMINANT PATHWAYS, Receptor 27

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 27

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.32E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-07 | | |
| 0002 | 9.46E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.46E-09 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.23E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-07 | | |
| 0005 | 1.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-06 | | |
| 0006 | 3.31E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.31E-08 | | |
| SUM | 1.95E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-06 | 382074 | 3765500 |

DOMINANT PATHWAYS, Receptor 28

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 28

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.27E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.27E-07 |
| 0002 | 9.05E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.05E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.09E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.09E-07 |
| 0005 | 1.41E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.41E-06 |
| 0006 | 3.16E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.16E-08 |
| SUM | 1.89E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-06 | 382094 3765500 |

DOMINANT PATHWAYS, Receptor 29

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 29

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.26E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.26E-07 |
| 0002 | 8.99E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.99E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.08E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.08E-07 |
| 0005 | 1.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.40E-06 |
| 0006 | 3.14E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.14E-08 |
| SUM | 1.87E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-06 | 382114 3765500 |

DOMINANT PATHWAYS, Receptor 30

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 30

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.24E-07 |
| 0002 | 8.83E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.83E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.02E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.02E-07 |
| 0005 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.38E-06 |
| 0006 | 3.08E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.08E-08 |
| SUM | 1.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-06 | 382134 3765500 |

DOMINANT PATHWAYS, Receptor 31

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 31

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.59E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.59E-07 |
| 0002 | 1.13E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.13E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.90E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.90E-07 |
| 0005 | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.81E-06 |
| 0006 | 3.95E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.95E-08 |
| SUM | 2.42E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.42E-06 | 381954 3765520 |

DOMINANT PATHWAYS, Receptor 32

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 32

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.79E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.79E-07 |
| 0002 | 1.28E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.28E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 4.39E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.39E-07 |
| 0005 | 2.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.04E-06 |
| 0006 | 4.45E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.45E-08 |
| SUM | 2.72E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.72E-06 | 381974 3765520 |

DOMINANT PATHWAYS, Receptor 33

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 33

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.44E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.44E-07 |
| 0002 | 1.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.03E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.52E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.52E-07 |
| 0005 | 1.63E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.63E-06 |
| 0006 | 3.57E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.57E-08 |
| SUM | 2.17E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-06 | 381994 3765520 |

DOMINANT PATHWAYS, Receptor 34

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 34

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.59E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.59E-07 |
| 0002 | 1.13E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.13E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.89E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.89E-07 |
| 0005 | 1.80E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-06 |
| 0006 | 3.95E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.95E-08 |
| SUM | 2.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.40E-06 | 382014 3765520 |

DOMINANT PATHWAYS, Receptor 35

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 35

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.17E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.17E-07 |
| 0002 | 8.36E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.36E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.86E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.86E-07 |
| 0005 | 1.31E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-06 |
| 0006 | 2.92E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.92E-08 |
| SUM | 1.75E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-06 | 382034 3765520 |

DOMINANT PATHWAYS, Receptor 36

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 36

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.23E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-07 |
| 0002 | 8.83E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.83E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.02E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.02E-07 |
| 0005 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | 3.08E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.08E-08 | | |
| SUM | 1.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-06 | 382054 | 3765520 |

DOMINANT PATHWAYS, Receptor 37

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 37

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.26E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-07 | |
| 0002 | 8.99E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.99E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.07E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-07 | |
| 0005 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-06 | |
| 0006 | 3.14E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.14E-08 | |
| SUM | 1.86E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-06 | 382074 | 3765520 |

DOMINANT PATHWAYS, Receptor 38

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 38

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.20E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-07 | |
| 0002 | 8.58E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.58E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.94E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.94E-07 | |
| 0005 | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 | |
| 0006 | 3.00E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.00E-08 | |
| SUM | 1.80E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-06 | 382094 | 3765520 |

DOMINANT PATHWAYS, Receptor 39

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 39

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.22E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-07 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | 8.68E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.68E-09 | | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | |
| 0004 | 2.97E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.97E-07 | | | |
| 0005 | 1.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-06 | | | |
| 0006 | 3.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-08 | | | |
| SUM | 1.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.82E-06 | 382114 | 3765520 | |

DOMINANT PATHWAYS, Receptor 40

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 40

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.22E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-07 | | |
| 0002 | 8.72E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.72E-09 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 2.99E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-07 | | |
| 0005 | 1.37E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E-06 | | |
| 0006 | 3.04E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-08 | | |
| SUM | 1.83E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-06 | 382134 | 3765520 |

DOMINANT PATHWAYS, Receptor 41

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 41

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.54E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E-07 | | |
| 0002 | 1.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.76E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.76E-07 | | |
| 0005 | 1.75E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-06 | | |
| 0006 | 3.81E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.81E-08 | | |
| SUM | 2.33E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.33E-06 | 381954 | 3765540 |

DOMINANT PATHWAYS, Receptor 42

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 42

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.73E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.73E-07 | |
| 0002 | 1.23E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 4.23E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.23E-07 | |
| 0005 | 1.97E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-06 | |
| 0006 | 4.29E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.29E-08 | |
| SUM | 2.62E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-06 | 381974 3765540 |

DOMINANT PATHWAYS, Receptor 43

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 43

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.37E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E-07 | |
| 0002 | 9.78E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.78E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.36E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.36E-07 | |
| 0005 | 1.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-06 | |
| 0006 | 3.41E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.41E-08 | |
| SUM | 2.07E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-06 | 381994 3765540 |

DOMINANT PATHWAYS, Receptor 44

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 44

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.52E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E-07 | |
| 0002 | 1.08E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.71E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-07 | |
| 0005 | 1.72E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E-06 | |
| 0006 | 3.76E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.76E-08 | |
| SUM | 2.29E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-06 | 382014 3765540 |

DOMINANT PATHWAYS, Receptor 45

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 45

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.70E-07 |
| 0002 | 1.22E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.22E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 4.17E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.17E-07 |
| 0005 | 1.93E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.93E-06 |
| 0006 | 4.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.24E-08 |
| SUM | 2.57E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.57E-06 | 382034 3765540 |

DOMINANT PATHWAYS, Receptor 46

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 46

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.19E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.19E-07 |
| 0002 | 8.47E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.47E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 2.90E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.90E-07 |
| 0005 | 1.32E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.32E-06 |
| 0006 | 2.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.96E-08 |
| SUM | 1.77E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-06 | 382054 3765540 |

DOMINANT PATHWAYS, Receptor 47

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 47

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.22E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.22E-07 |
| 0002 | 8.71E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.71E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 2.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.98E-07 |
| 0005 | 1.34E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.34E-06 |
| 0006 | 3.04E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.04E-08 |
| SUM | 1.80E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-06 | 382074 3765540 |

DOMINANT PATHWAYS, Receptor 48

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 48

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.18E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E-07 |
| 0002 | 8.44E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.44E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.89E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.89E-07 |
| 0005 | 1.33E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-06 |
| 0006 | 2.95E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-08 |
| SUM | 1.77E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-06 382094 3765540 |

DOMINANT PATHWAYS, Receptor 49

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 49

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.22E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-07 |
| 0002 | 8.70E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.98E-07 |
| 0005 | 1.37E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E-06 |
| 0006 | 3.04E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-08 |
| SUM | 1.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.82E-06 382114 3765540 |

DOMINANT PATHWAYS, Receptor 50

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 50

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.25E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-07 |
| 0002 | 8.92E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.92E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.05E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.05E-07 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0005 | 1.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-06 | | | |
| 0006 | 3.11E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-08 | | | |
| SUM | 1.87E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-06 | 382134 | 3765540 | |

DOMINANT PATHWAYS, Receptor 51

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 51

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.48E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-07 |
| 0002 | 1.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.61E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.61E-07 |
| 0005 | 1.68E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-06 |
| 0006 | 3.66E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.66E-08 |
| SUM | 2.24E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.24E-06 | 381954 | 3765560 |

DOMINANT PATHWAYS, Receptor 52

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 52

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.66E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.66E-07 |
| 0002 | 1.18E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 4.06E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.06E-07 |
| 0005 | 1.89E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-06 |
| 0006 | 4.11E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.11E-08 |
| SUM | 2.51E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-06 | 381974 | 3765560 |

DOMINANT PATHWAYS, Receptor 53

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 53

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.31E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-07 | | | |
| 0002 | 9.36E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.36E-09 | | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | |
| 0004 | 3.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-07 | | | |
| 0005 | 1.49E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E-06 | | | |
| 0006 | 3.26E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-08 | | | |
| SUM | 1.98E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-06 | 381994 | 3765560 | |

DOMINANT PATHWAYS, Receptor 54

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 54

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.44E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E-07 | | |
| 0002 | 1.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.53E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.53E-07 | | |
| 0005 | 1.64E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-06 | | |
| 0006 | 3.59E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-08 | | |
| SUM | 2.18E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-06 | 382014 | 3765560 |

DOMINANT PATHWAYS, Receptor 55

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 55

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.61E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-07 | | |
| 0002 | 1.15E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.94E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.94E-07 | | |
| 0005 | 1.83E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-06 | | |
| 0006 | 4.01E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.01E-08 | | |
| SUM | 2.43E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.43E-06 | 382034 | 3765560 |

DOMINANT PATHWAYS, Receptor 56

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 56

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.15E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-07 |
| 0002 | 8.23E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.23E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.82E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.82E-07 |
| 0005 | 1.29E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-06 |
| 0006 | 2.87E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E-08 |
| SUM | 1.72E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E-06 | 382054 3765560 |

DOMINANT PATHWAYS, Receptor 57

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 57

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-07 |
| 0002 | 8.83E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.83E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.02E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.02E-07 |
| 0005 | 1.37E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E-06 |
| 0006 | 3.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.09E-08 |
| SUM | 1.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-06 | 382074 3765560 |

DOMINANT PATHWAYS, Receptor 58

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 58

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.29E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-07 |
| 0002 | 9.22E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.22E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.15E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-07 |
| 0005 | 1.41E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-06 |
| 0006 | 3.22E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.22E-08 |
| SUM | 1.90E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-06 | 382094 3765560 |

DOMINANT PATHWAYS, Receptor 59

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 59

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.26E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-07 | |
| 0002 | 9.01E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.01E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.08E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.08E-07 | |
| 0005 | 1.41E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-06 | |
| 0006 | 3.14E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.14E-08 | |
| SUM | 1.89E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-06 | 382114 3765560 |

DOMINANT PATHWAYS, Receptor 60

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 60

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.33E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-07 | |
| 0002 | 9.53E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.53E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.26E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-07 | |
| 0005 | 1.49E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E-06 | |
| 0006 | 3.33E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.33E-08 | |
| SUM | 1.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-06 | 382134 3765560 |

DOMINANT PATHWAYS, Receptor 61

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 61

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.41E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-07 | |
| 0002 | 1.01E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.46E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.46E-07 | |
| 0005 | 1.61E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-06 | |
| 0006 | 3.50E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.50E-08 | |
| SUM | 2.14E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-06 | 381954 3765580 |

DOMINANT PATHWAYS, Receptor 62

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 62

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.58E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-07 |
| 0002 | 1.12E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.86E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-07 |
| 0005 | 1.80E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-06 |
| 0006 | 3.91E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.91E-08 |
| SUM | 2.39E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-06 | 381974 3765580 |

DOMINANT PATHWAYS, Receptor 63

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 63

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.79E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-07 |
| 0002 | 1.27E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 4.38E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.38E-07 |
| 0005 | 2.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-06 |
| 0006 | 4.44E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.44E-08 |
| SUM | 2.71E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-06 | 381994 3765580 |

DOMINANT PATHWAYS, Receptor 64

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 64

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.38E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-07 |
| 0002 | 9.82E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.82E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0004 | 3.37E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.37E-07 | | |
| 0005 | 1.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-06 | | |
| 0006 | 3.42E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.42E-08 | | |
| SUM | 2.08E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E-06 | 382014 | 3765580 |

DOMINANT PATHWAYS, Receptor 65

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 65

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.52E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E-07 | |
| 0002 | 1.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.73E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E-07 | |
| 0005 | 1.73E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.73E-06 | |
| 0006 | 3.79E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.79E-08 | |
| SUM | 2.30E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-06 | 382034 | 3765580 |

DOMINANT PATHWAYS, Receptor 66

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 66

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.71E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.71E-07 | |
| 0002 | 1.22E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 4.18E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.18E-07 | |
| 0005 | 1.93E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-06 | |
| 0006 | 4.25E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.25E-08 | |
| SUM | 2.58E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.58E-06 | 382054 | 3765580 |

DOMINANT PATHWAYS, Receptor 67

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 67

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.22E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.22E-07 |
| 0002 | 8.71E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.71E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 2.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.98E-07 |
| 0005 | 1.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.36E-06 |
| 0006 | 3.04E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.04E-08 |
| SUM | 1.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.82E-06 | 382074 3765580 |

DOMINANT PATHWAYS, Receptor 68

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 68

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.32E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.32E-07 |
| 0002 | 9.47E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.47E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.24E-07 |
| 0005 | 1.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.47E-06 |
| 0006 | 3.31E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.31E-08 |
| SUM | 1.97E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-06 | 382094 3765580 |

DOMINANT PATHWAYS, Receptor 69

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 69

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.39E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.39E-07 |
| 0002 | 9.93E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.93E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 3.39E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.39E-07 |
| 0005 | 1.52E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.52E-06 |
| 0006 | 3.47E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.47E-08 |
| SUM | 2.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-06 | 382114 3765580 |

DOMINANT PATHWAYS, Receptor 70

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 70

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.38E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-07 |
| 0002 | 9.87E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.87E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.38E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.38E-07 |
| 0005 | 1.54E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E-06 |
| 0006 | 3.45E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.45E-08 |
| SUM | 2.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-06 | 382134 3765580 |

DOMINANT PATHWAYS, Receptor 71

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 71

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.35E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-07 |
| 0002 | 9.60E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.60E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.30E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.30E-07 |
| 0005 | 1.54E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E-06 |
| 0006 | 3.35E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.35E-08 |
| SUM | 2.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-06 | 381954 3765600 |

DOMINANT PATHWAYS, Receptor 72

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 72

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.49E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E-07 |
| 0002 | 1.06E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.66E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.66E-07 |
| 0005 | 1.70E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E-06 |
| 0006 | 3.71E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-08 |
| SUM | 2.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.26E-06 | 381974 3765600 |

DOMINANT PATHWAYS, Receptor 73

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 73

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.67E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-07 |
| 0002 | 1.19E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.19E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 4.10E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E-07 |
| 0005 | 1.91E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-06 |
| 0006 | 4.15E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-08 |
| SUM | 2.54E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E-06 | 381994 3765600 |

DOMINANT PATHWAYS, Receptor 74

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 74

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.90E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-07 |
| 0002 | 1.35E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 4.65E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.65E-07 |
| 0005 | 2.17E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-06 |
| 0006 | 4.71E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.71E-08 |
| SUM | 2.88E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-06 | 382014 3765600 |

DOMINANT PATHWAYS, Receptor 75

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 75

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.45E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-07 |
| 0002 | 1.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.55E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.55E-07 |
| 0005 | 1.64E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-06 |
| 0006 | 3.60E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.60E-08 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SUM | 2.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-06 | 382034 | 3765600 |

DOMINANT PATHWAYS, Receptor 76

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 76

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.61E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-07 | | |
| 0002 | 1.15E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.93E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.93E-07 | | |
| 0005 | 1.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.82E-06 | | |
| 0006 | 4.00E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-08 | | |
| SUM | 2.43E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.43E-06 | 382054 | 3765600 |

DOMINANT PATHWAYS, Receptor 77

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 77

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.80E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-07 | | |
| 0002 | 1.28E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 4.40E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-07 | | |
| 0005 | 2.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.03E-06 | | |
| 0006 | 4.47E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.47E-08 | | |
| SUM | 2.71E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-06 | 382074 | 3765600 |

DOMINANT PATHWAYS, Receptor 78

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 78

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.34E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-07 | | |
| 0002 | 9.60E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.60E-09 | | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.28E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.28E-07 | | |
| 0005 | 1.50E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.50E-06 | | |
| 0006 | 3.35E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.35E-08 | | |
| SUM | 2.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-06 | 382094 | 3765600 |

DOMINANT PATHWAYS, Receptor 79

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 79

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.42E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-07 | | |
| 0002 | 1.01E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.47E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.47E-07 | | |
| 0005 | 1.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-06 | | |
| 0006 | 3.55E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.55E-08 | | |
| SUM | 2.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.10E-06 | 382114 | 3765600 |

DOMINANT PATHWAYS, Receptor 80

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 80

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.43E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-07 | | |
| 0002 | 1.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.49E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.49E-07 | | |
| 0005 | 1.60E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-06 | | |
| 0006 | 3.55E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.55E-08 | | |
| SUM | 2.14E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-06 | 382134 | 3765600 |

DOMINANT PATHWAYS, Receptor 81

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 81

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.29E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-07 | |
| 0002 | 9.17E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.17E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.15E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-07 | |
| 0005 | 1.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-06 | |
| 0006 | 3.19E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-08 | |
| SUM | 1.95E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-06 | 381954 3765620 |

DOMINANT PATHWAYS, Receptor 82

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 82

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.42E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-07 | |
| 0002 | 1.01E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.46E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.46E-07 | |
| 0005 | 1.61E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-06 | |
| 0006 | 3.51E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.51E-08 | |
| SUM | 2.15E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.15E-06 | 381974 3765620 |

DOMINANT PATHWAYS, Receptor 83

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 83

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.57E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-07 | |
| 0002 | 1.12E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.84E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.84E-07 | |
| 0005 | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | |
| 0006 | 3.89E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.89E-08 | |
| SUM | 2.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.38E-06 | 381994 3765620 |

DOMINANT PATHWAYS, Receptor 84

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 84

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.75E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-07 |
| 0002 | 1.25E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 4.29E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.29E-07 |
| 0005 | 2.00E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-06 |
| 0006 | 4.35E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.35E-08 |
| SUM | 2.66E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-06 | 382014 3765620 |

DOMINANT PATHWAYS, Receptor 85

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 85

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.97E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-07 |
| 0002 | 1.41E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 4.83E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.83E-07 |
| 0005 | 2.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-06 |
| 0006 | 4.90E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.90E-08 |
| SUM | 2.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-06 | 382034 3765620 |

DOMINANT PATHWAYS, Receptor 86

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 86

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.53E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E-07 |
| 0002 | 1.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 3.75E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.75E-07 |
| 0005 | 1.74E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-06 |
| 0006 | 3.81E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.81E-08 |
| SUM | 2.31E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.31E-06 | 382054 3765620 |

DOMINANT PATHWAYS, Receptor 87

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 87

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E-07 |
| 0002 | 1.21E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 4.17E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.17E-07 |
| 0005 | 1.93E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-06 |
| 0006 | 4.23E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.23E-08 |
| SUM | 2.57E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.57E-06 | 382074 3765620 |

DOMINANT PATHWAYS, Receptor 88

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 88

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.91E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-07 |
| 0002 | 1.36E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 4.67E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.67E-07 |
| 0005 | 2.16E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.16E-06 |
| 0006 | 4.75E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.75E-08 |
| SUM | 2.88E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-06 | 382094 3765620 |

DOMINANT PATHWAYS, Receptor 89

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 89

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.08E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E-07 |
| 0002 | 1.48E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 5.08E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.08E-07 |
| 0005 | 2.33E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.33E-06 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | 5.17E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.17E-08 | | | |
| SUM | 3.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-06 | 382114 | 3765620 | |

DOMINANT PATHWAYS, Receptor 90

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 90

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.53E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E-07 | |
| 0002 | 1.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.74E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E-07 | |
| 0005 | 1.73E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.73E-06 | |
| 0006 | 3.80E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E-08 | |
| SUM | 2.30E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-06 | 382134 | 3765620 |

DOMINANT PATHWAYS, Receptor 91

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 91

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.23E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-07 | |
| 0002 | 8.76E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.76E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 3.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-07 | |
| 0005 | 1.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-06 | |
| 0006 | 3.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.05E-08 | |
| SUM | 1.87E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-06 | 381954 | 3765640 |

DOMINANT PATHWAYS, Receptor 92

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 92

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.34E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-07 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | 9.57E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.57E-09 | | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | |
| 0004 | 3.29E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-07 | | | |
| 0005 | 1.53E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E-06 | | | |
| 0006 | 3.33E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.33E-08 | | | |
| SUM | 2.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-06 | 381974 | 3765640 | |

DOMINANT PATHWAYS, Receptor 93

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 93

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.48E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-07 | | |
| 0002 | 1.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.61E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.61E-07 | | |
| 0005 | 1.68E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-06 | | |
| 0006 | 3.66E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.66E-08 | | |
| SUM | 2.24E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.24E-06 | 381994 | 3765640 |

DOMINANT PATHWAYS, Receptor 94

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 94

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.63E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.63E-07 | | |
| 0002 | 1.16E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 3.99E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.99E-07 | | |
| 0005 | 1.86E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-06 | | |
| 0006 | 4.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.05E-08 | | |
| SUM | 2.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-06 | 382014 | 3765640 |

DOMINANT PATHWAYS, Receptor 95

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 95

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.81E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-07 | |
| 0002 | 1.29E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 4.44E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.44E-07 | |
| 0005 | 2.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.06E-06 | |
| 0006 | 4.50E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.50E-08 | |
| SUM | 2.75E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-06 | 382034 3765640 |

DOMINANT PATHWAYS, Receptor 96

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 96

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.02E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-07 | |
| 0002 | 1.44E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 4.94E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.94E-07 | |
| 0005 | 2.30E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-06 | |
| 0006 | 5.01E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.01E-08 | |
| SUM | 3.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.06E-06 | 382054 3765640 |

DOMINANT PATHWAYS, Receptor 97

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 97

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.25E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-07 | |
| 0002 | 1.60E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 5.50E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.50E-07 | |
| 0005 | 2.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-06 | |
| 0006 | 5.57E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.57E-08 | |
| SUM | 3.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-06 | 382074 3765640 |

DOMINANT PATHWAYS, Receptor 98

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 98

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.84E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.84E-07 |
| 0002 | 1.31E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.31E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 4.49E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.49E-07 |
| 0005 | 2.08E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.08E-06 |
| 0006 | 4.56E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.56E-08 |
| SUM | 2.77E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.77E-06 | 382094 3765640 |

DOMINANT PATHWAYS, Receptor 99

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 99

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.02E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.02E-07 |
| 0002 | 1.44E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.44E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 4.93E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.93E-07 |
| 0005 | 2.27E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.27E-06 |
| 0006 | 5.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 5.02E-08 |
| SUM | 3.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-06 | 382114 3765640 |

DOMINANT PATHWAYS, Receptor 100

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 100

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.28E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.28E-07 |
| 0002 | 1.63E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.63E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 5.58E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 5.58E-07 |
| 0005 | 2.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.56E-06 |
| 0006 | 5.69E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 5.69E-08 |
| SUM | 3.42E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.42E-06 | 382134 3765640 |

DOMINANT PATHWAYS, Receptor 101

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 101

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-07 |
| 0002 | 8.69E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.69E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.97E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.97E-07 |
| 0005 | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 |
| 0006 | 3.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-08 |
| SUM | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 3765565 |

DOMINANT PATHWAYS, Receptor 102

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 102

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-07 |
| 0002 | 8.69E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.69E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.97E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.97E-07 |
| 0005 | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 |
| 0006 | 3.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-08 |
| SUM | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 3765565 |

DOMINANT PATHWAYS, Receptor 103

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 103

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-07 |
| 0002 | 8.69E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.69E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.97E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.97E-07 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0005 | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 | | | |
| 0006 | 3.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-08 | | | |
| SUM | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 | 3765565 | |

DOMINANT PATHWAYS, Receptor 104

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 104

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-07 |
| 0002 | 8.69E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.69E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.97E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.97E-07 |
| 0005 | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 |
| 0006 | 3.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-08 |
| SUM | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 | 3765565 |

DOMINANT PATHWAYS, Receptor 105

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 105

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-07 |
| 0002 | 8.69E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.69E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.97E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.97E-07 |
| 0005 | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 |
| 0006 | 3.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-08 |
| SUM | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 | 3765565 |

DOMINANT PATHWAYS, Receptor 106

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 106

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-07 | | | |
| 0002 | 8.69E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.69E-09 | | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | |
| 0004 | 2.97E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.97E-07 | | | |
| 0005 | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 | | | |
| 0006 | 3.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-08 | | | |
| SUM | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 | 3765565 | |

DOMINANT PATHWAYS, Receptor 107

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 107

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-07 | | |
| 0002 | 8.69E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.69E-09 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 2.97E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.97E-07 | | |
| 0005 | 1.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-06 | | |
| 0006 | 3.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-08 | | |
| SUM | 1.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-06 | 382071 | 3765565 |

DOMINANT PATHWAYS, Receptor 108

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 108

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.20E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-07 | | |
| 0002 | 8.56E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.56E-09 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 2.93E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-07 | | |
| 0005 | 1.34E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-06 | | |
| 0006 | 2.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-08 | | |
| SUM | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 | 3765530 |

DOMINANT PATHWAYS, Receptor 109

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 109

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.20E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-07 |
| 0002 | 8.56E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.56E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.93E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-07 |
| 0005 | 1.34E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-06 |
| 0006 | 2.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-08 |
| SUM | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 110

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 110

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.20E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-07 |
| 0002 | 8.56E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.56E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.93E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-07 |
| 0005 | 1.34E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-06 |
| 0006 | 2.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-08 |
| SUM | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 111

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 111

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.20E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-07 |
| 0002 | 8.56E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.56E-09 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 2.93E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-07 |
| 0005 | 1.34E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-06 |
| 0006 | 2.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-08 |
| SUM | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 112

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 112

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.20E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-07 | |
| 0002 | 8.56E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.56E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.93E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-07 | |
| 0005 | 1.34E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-06 | |
| 0006 | 2.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-08 | |
| SUM | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 113

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 113

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.20E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-07 | |
| 0002 | 8.56E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.56E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.93E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-07 | |
| 0005 | 1.34E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-06 | |
| 0006 | 2.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-08 | |
| SUM | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 114

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 114

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 1.20E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-07 | |
| 0002 | 8.56E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.56E-09 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 2.93E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.93E-07 | |
| 0005 | 1.34E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-06 | |
| 0006 | 2.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-08 | |
| SUM | 1.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-06 | 382051 3765530 |

This file: c:\HARP\projects\demo\Rep_Can_30yr_DerOEH_AllRec_AllSrc_AllCh_ByRec_Site_UTM.txt

Created by HARP Version 1.4f Build 23.11.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 11/7/2016 10:49:14 AM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: USC.EMS
Site parameters file: c:\HARP\projects\demo\project.sit

Screening mode is OFF

Exposure duration: 30 year (adult resident)
Analysis method: Derived (OEHHA) Method
Health effect: Cancer Risk
Receptor(s): All
Sources(s): All
Chemicals(s): All

SITE PARAMETERS

DEPOSITION

Deposition rate (m/s) 0.05

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

*** Pathway disabled ***

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway disabled ***

SOIL INGESTION

*** Pathway disabled ***

MOTHER'S MILK

*** Pathway disabled ***

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

| CHEM | CAS | ABBREVIATION | POLLUTANT NAME | BACKGROUND (ug/m^3) |
|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 1,3-Butadiene | 0.000E+00 |
| 0002 | 75070 | Acetaldehyde | Acetaldehyde | 0.000E+00 |
| 0003 | 107028 | Acrolein | Acrolein | 0.000E+00 |
| 0004 | 71432 | Benzene | Benzene | 0.000E+00 |
| 0005 | 9901 | DieselExhPM | Diesel engine exhaust, particulate matter (Diesel PM) | 0.000E+00 |
| 0006 | 50000 | Formaldehyde | Formaldehyde | 0.000E+00 |

CHEMICAL HEALTH VALUES

| CHEM | CAS | ABBREVIATION | CancerPF(Inh) (mg/kg-d)^-1 | CancerPF(Oral) (mg/kg-d)^-1 | ChronicREL(Inh) ug/m^3 | ChronicREL(Oral) mg/kg-d | AcuteREL ug/m^3 |
|---|---|---|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 6.00E-01 | * | 2.00E+01 | * | * |
| 0002 | 75070 | Acetaldehyde | 1.00E-02 | * | 1.40E+02 | * | 4.70E+02 |
| 0003 | 107028 | Acrolein | * | * | 3.50E-01 | * | 2.50E+00 |
| 0004 | 71432 | Benzene | 1.00E-01 | * | 6.00E+01 | * | 1.30E+03 |
| 0005 | 9901 | DieselExhPM | 1.10E+00 | * | 5.00E+00 | * | * |
| 0006 | 50000 | Formaldehyde | 2.10E-02 | * | 9.00E+00 | * | 5.50E+01 |

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.EMS
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=1001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=1002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=3 NAME=1003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=4 NAME=1004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=5 NAME=1005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=6 NAME=1006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=7 NAME=1007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=8 NAME=1008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=9 NAME=1009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |

| | | | | | |
|---|---|---|---|---|---|
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=10 NAME=1010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=11 NAME=1011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=12 NAME=1012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=13 NAME=1013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=14 NAME=1014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=15 NAME=3001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=16 NAME=3002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=17 NAME=3003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=18 NAME=3004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=19 NAME=3005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=20 NAME=3006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=21 NAME=3007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=22 NAME=3008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=23 NAME=3009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=24 NAME=3010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.95E-01 | 2.23E-05 |
| 75070 | Acetaldehyde | 1 | 0 | 8.72E-01 | 9.96E-05 |
| 107028 | Acrolein | 1 | 0 | 4.87E-02 | 5.56E-06 |
| 71432 | Benzene | 1 | 0 | 2.83E+00 | 3.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 8.18E-01 | 9.34E-05 |
| 50000 | Formaldehyde | 1 | 0 | 1.49E+00 | 1.70E-04 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=25 NAME=3011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=26 NAME=3012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=27 NAME=3013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=28 NAME=3014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=29 NAME=3015 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=30 NAME=3016 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=31 NAME=3017 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=32 NAME=3018 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |

| | | | | | |
|---|---|---|---|---|---|
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=33 NAME=3019 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=34 NAME=3020 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

CANCER RISK REPORT

| REC | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 6.12E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.12E-06 | 381954 | 3765460 |
| 0002 | 6.78E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.78E-06 | 381974 | 3765460 |
| 0003 | 7.58E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.58E-06 | 381994 | 3765460 |
| 0004 | 6.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.36E-06 | 382014 | 3765460 |
| 0005 | 7.00E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.00E-06 | 382034 | 3765460 |
| 0006 | 5.07E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.07E-06 | 382054 | 3765460 |
| 0007 | 4.76E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.76E-06 | 382074 | 3765460 |
| 0008 | 4.71E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.71E-06 | 382094 | 3765460 |
| 0009 | 4.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.82E-06 | 382114 | 3765460 |
| 0010 | 4.60E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.60E-06 | 382134 | 3765460 |
| 0011 | 5.86E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.86E-06 | 381954 | 3765480 |
| 0012 | 6.53E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.53E-06 | 381974 | 3765480 |
| 0013 | 7.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.38E-06 | 381994 | 3765480 |
| 0014 | 5.97E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E-06 | 382014 | 3765480 |
| 0015 | 4.54E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.54E-06 | 382034 | 3765480 |
| 0016 | 4.74E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.74E-06 | 382054 | 3765480 |
| 0017 | 4.66E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.66E-06 | 382074 | 3765480 |
| 0018 | 4.50E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.50E-06 | 382094 | 3765480 |
| 0019 | 4.50E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.50E-06 | 382114 | 3765480 |
| 0020 | 4.33E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.33E-06 | 382134 | 3765480 |
| 0021 | 5.64E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.64E-06 | 381954 | 3765500 |
| 0022 | 6.33E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.33E-06 | 381974 | 3765500 |
| 0023 | 5.15E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.15E-06 | 381994 | 3765500 |
| 0024 | 5.67E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.67E-06 | 382014 | 3765500 |
| 0025 | 4.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E-06 | 382034 | 3765500 |
| 0026 | 4.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.38E-06 | 382054 | 3765500 |
| 0027 | 4.39E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.39E-06 | 382074 | 3765500 |
| 0028 | 4.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.25E-06 | 382094 | 3765500 |
| 0029 | 4.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.23E-06 | 382114 | 3765500 |
| 0030 | 4.16E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.16E-06 | 382134 | 3765500 |
| 0031 | 5.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-06 | 381954 | 3765520 |
| 0032 | 6.13E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.13E-06 | 381974 | 3765520 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0033 | 4.89E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.89E-06 | 381994 | 3765520 |
| 0034 | 5.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.40E-06 | 382014 | 3765520 |
| 0035 | 3.95E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.95E-06 | 382034 | 3765520 |
| 0036 | 4.15E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-06 | 382054 | 3765520 |
| 0037 | 4.18E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.18E-06 | 382074 | 3765520 |
| 0038 | 4.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.06E-06 | 382094 | 3765520 |
| 0039 | 4.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E-06 | 382114 | 3765520 |
| 0040 | 4.12E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.12E-06 | 382134 | 3765520 |
| 0041 | 5.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.25E-06 | 381954 | 3765540 |
| 0042 | 5.91E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.91E-06 | 381974 | 3765540 |
| 0043 | 4.67E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.67E-06 | 381994 | 3765540 |
| 0044 | 5.16E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.16E-06 | 382014 | 3765540 |
| 0045 | 5.80E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.80E-06 | 382034 | 3765540 |
| 0046 | 3.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.99E-06 | 382054 | 3765540 |
| 0047 | 4.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.06E-06 | 382074 | 3765540 |
| 0048 | 4.00E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-06 | 382094 | 3765540 |
| 0049 | 4.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.11E-06 | 382114 | 3765540 |
| 0050 | 4.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E-06 | 382134 | 3765540 |
| 0051 | 5.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.04E-06 | 381954 | 3765560 |
| 0052 | 5.66E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.66E-06 | 381974 | 3765560 |
| 0053 | 4.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.47E-06 | 381994 | 3765560 |
| 0054 | 4.91E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.91E-06 | 382014 | 3765560 |
| 0055 | 5.49E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.49E-06 | 382034 | 3765560 |
| 0056 | 3.88E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.88E-06 | 382054 | 3765560 |
| 0057 | 4.15E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-06 | 382074 | 3765560 |
| 0058 | 4.28E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.28E-06 | 382094 | 3765560 |
| 0059 | 4.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-06 | 382114 | 3765560 |
| 0060 | 4.49E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.49E-06 | 382134 | 3765560 |
| 0061 | 4.83E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.83E-06 | 381954 | 3765580 |
| 0062 | 5.39E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.39E-06 | 381974 | 3765580 |
| 0063 | 6.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.11E-06 | 381994 | 3765580 |
| 0064 | 4.69E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.69E-06 | 382014 | 3765580 |
| 0065 | 5.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E-06 | 382034 | 3765580 |
| 0066 | 5.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-06 | 382054 | 3765580 |
| 0067 | 4.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E-06 | 382074 | 3765580 |
| 0068 | 4.44E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.44E-06 | 382094 | 3765580 |
| 0069 | 4.61E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.61E-06 | 382114 | 3765580 |
| 0070 | 4.64E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-06 | 382134 | 3765580 |
| 0071 | 4.61E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.61E-06 | 381954 | 3765600 |
| 0072 | 5.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.11E-06 | 381974 | 3765600 |
| 0073 | 5.72E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.72E-06 | 381994 | 3765600 |
| 0074 | 6.50E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.50E-06 | 382014 | 3765600 |
| 0075 | 4.94E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.94E-06 | 382034 | 3765600 |
| 0076 | 5.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.47E-06 | 382054 | 3765600 |
| 0077 | 6.12E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.12E-06 | 382074 | 3765600 |
| 0078 | 4.52E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.52E-06 | 382094 | 3765600 |
| 0079 | 4.73E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.73E-06 | 382114 | 3765600 |
| 0080 | 4.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.82E-06 | 382134 | 3765600 |
| 0081 | 4.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-06 | 381954 | 3765620 |
| 0082 | 4.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.84E-06 | 381974 | 3765620 |
| 0083 | 5.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.36E-06 | 381994 | 3765620 |
| 0084 | 5.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-06 | 382014 | 3765620 |
| 0085 | 6.75E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.75E-06 | 382034 | 3765620 |
| 0086 | 5.22E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-06 | 382054 | 3765620 |
| 0087 | 5.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-06 | 382074 | 3765620 |
| 0088 | 6.48E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.48E-06 | 382094 | 3765620 |
| 0089 | 7.02E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.02E-06 | 382114 | 3765620 |
| 0090 | 5.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E-06 | 382134 | 3765620 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0091 | 4.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E-06 | 381954 | 3765640 |
| 0092 | 4.59E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.59E-06 | 381974 | 3765640 |
| 0093 | 5.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.05E-06 | 381994 | 3765640 |
| 0094 | 5.58E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.58E-06 | 382014 | 3765640 |
| 0095 | 6.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.19E-06 | 382034 | 3765640 |
| 0096 | 6.90E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.90E-06 | 382054 | 3765640 |
| 0097 | 7.67E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.67E-06 | 382074 | 3765640 |
| 0098 | 6.24E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.24E-06 | 382094 | 3765640 |
| 0099 | 6.83E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.83E-06 | 382114 | 3765640 |
| 0100 | 7.70E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.70E-06 | 382134 | 3765640 |
| 0101 | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 | 3765565 |
| 0102 | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 | 3765565 |
| 0103 | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 | 3765565 |
| 0104 | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 | 3765565 |
| 0105 | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 | 3765565 |
| 0106 | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 | 3765565 |
| 0107 | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 | 3765565 |
| 0108 | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 | 3765530 |
| 0109 | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 | 3765530 |
| 0110 | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 | 3765530 |
| 0111 | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 | 3765530 |
| 0112 | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 | 3765530 |
| 0113 | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 | 3765530 |
| 0114 | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 | 3765530 |

This file: c:\HARP\projects\demo\Rep_Can_30yr_DerOEH_AllRec_AllSrc_AllCh_ByRec_ByChem_Site_UTM.txt

Created by HARP Version 1.4f  Build 23.11.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 11/7/2016 10:39:00 AM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: USC.EMS
Site parameters file: c:\HARP\projects\demo\project.sit

Screening mode is OFF

Exposure duration: 30 year (adult resident)
Analysis method: Derived (OEHHA) Method
Health effect: Cancer Risk
Receptor(s): All
Sources(s): All
Chemicals(s): All

SITE PARAMETERS

DEPOSITION

Deposition rate (m/s) 0.05

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

*** Pathway disabled ***

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway disabled ***

SOIL INGESTION

*** Pathway disabled ***

MOTHER'S MILK

*** Pathway disabled ***

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

| CHEM | CAS | ABBREVIATION | POLLUTANT NAME | BACKGROUND (ug/m^3) |
|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 1,3-Butadiene | 0.000E+00 |
| 0002 | 75070 | Acetaldehyde | Acetaldehyde | 0.000E+00 |
| 0003 | 107028 | Acrolein | Acrolein | 0.000E+00 |
| 0004 | 71432 | Benzene | Benzene | 0.000E+00 |
| 0005 | 9901 | DieselExhPM | Diesel engine exhaust, particulate matter (Diesel PM) | 0.000E+00 |
| 0006 | 50000 | Formaldehyde | Formaldehyde | 0.000E+00 |

CHEMICAL HEALTH VALUES

| CHEM | CAS | ABBREVIATION | CancerPF(Inh) (mg/kg-d)^-1 | CancerPF(Oral) (mg/kg-d)^-1 | ChronicREL(Inh) ug/m^3 | ChronicREL(Oral) mg/kg-d | AcuteREL ug/m^3 |
|---|---|---|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 6.00E-01 | * | 2.00E+01 | * | * |
| 0002 | 75070 | Acetaldehyde | 1.00E-02 | * | 1.40E+02 | * | 4.70E+02 |
| 0003 | 107028 | Acrolein | * | * | 3.50E-01 | * | 2.50E+00 |
| 0004 | 71432 | Benzene | 1.00E-01 | * | 6.00E+01 | * | 1.30E+03 |
| 0005 | 9901 | DieselExhPM | 1.10E+00 | * | 5.00E+00 | * | * |
| 0006 | 50000 | Formaldehyde | 2.10E-02 | * | 9.00E+00 | * | 5.50E+01 |

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.EMS
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=1001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=1002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=3 NAME=1003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=4 NAME=1004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=5 NAME=1005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=6 NAME=1006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=7 NAME=1007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=8 NAME=1008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=9 NAME=1009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=10 NAME=1010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=11 NAME=1011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=12 NAME=1012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=13 NAME=1013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=14 NAME=1014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=15 NAME=3001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=16 NAME=3002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=17 NAME=3003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=18 NAME=3004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=19 NAME=3005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=20 NAME=3006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=21 NAME=3007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=22 NAME=3008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=23 NAME=3009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=24 NAME=3010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.95E-01 | 2.23E-05 |
| 75070 | Acetaldehyde | 1 | 0 | 8.72E-01 | 9.96E-05 |
| 107028 | Acrolein | 1 | 0 | 4.87E-02 | 5.56E-06 |
| 71432 | Benzene | 1 | 0 | 2.83E+00 | 3.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 8.18E-01 | 9.34E-05 |
| 50000 | Formaldehyde | 1 | 0 | 1.49E+00 | 1.70E-04 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=25 NAME=3011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=26 NAME=3012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=27 NAME=3013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=28 NAME=3014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=29 NAME=3015 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=30 NAME=3016 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=31 NAME=3017 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=32 NAME=3018 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=33 NAME=3019 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=34 NAME=3020 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |

| | | | | | |
|---|---|---|---|---|---|
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

CANCER RISK REPORT

DOMINANT PATHWAYS, Receptor 1

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 1

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.04E-07 | |
| 0002 | 2.88E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 9.89E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.89E-07 | |
| 0005 | 4.60E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.60E-06 | |
| 0006 | 1.00E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-07 | |
| SUM | 6.12E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.12E-06 | 381954 3765460 |

DOMINANT PATHWAYS, Receptor 2

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 2

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.48E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.48E-07 | |
| 0002 | 3.19E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 1.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-06 | |
| 0005 | 5.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.10E-06 | |
| 0006 | 1.11E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-07 | |
| SUM | 6.78E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.78E-06 | 381974 3765460 |

DOMINANT PATHWAYS, Receptor 3

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 3

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 5.00E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.00E-07 |
| 0002 | 3.56E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.56E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 1.22E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-06 |
| 0005 | 5.69E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.69E-06 |
| 0006 | 1.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-07 |
| SUM | 7.58E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.58E-06 | 381994 3765460 |

DOMINANT PATHWAYS, Receptor 4

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 4

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.22E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.22E-07 |
| 0002 | 3.01E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 1.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-06 |
| 0005 | 4.77E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.77E-06 |
| 0006 | 1.05E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-07 |
| SUM | 6.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.36E-06 | 382014 3765460 |

DOMINANT PATHWAYS, Receptor 5

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 5

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.65E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.65E-07 |
| 0002 | 3.32E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.32E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 1.14E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-06 |
| 0005 | 5.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.25E-06 |
| 0006 | 1.16E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-07 |
| SUM | 7.00E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.00E-06 | 382034 3765460 |

DOMINANT PATHWAYS, Receptor 6

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | YES | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 6

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.43E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.43E-07 |
| 0002 | 2.45E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.45E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 8.38E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.38E-07 |
| 0005 | 3.77E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.77E-06 |
| 0006 | 8.58E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.58E-08 |
| SUM | 5.07E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 382054 | 3765460 |

DOMINANT PATHWAYS, Receptor 7

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 7

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.17E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.17E-07 |
| 0002 | 2.26E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.26E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 7.74E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.74E-07 |
| 0005 | 3.56E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.56E-06 |
| 0006 | 7.88E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.88E-08 |
| SUM | 4.76E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 382074 | 3765460 |

DOMINANT PATHWAYS, Receptor 8

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 8

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.14E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.14E-07 |
| 0002 | 2.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.24E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 7.69E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.69E-07 |
| 0005 | 3.53E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.53E-06 |
| 0006 | 7.83E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.83E-08 |
| SUM | 4.71E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 382094 | 3765460 |

DOMINANT PATHWAYS, Receptor 9

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 9

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-07 |
| 0002 | 2.30E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.86E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.86E-07 |
| 0005 | 3.61E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.61E-06 |
| 0006 | 8.01E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.01E-08 |
| SUM | 4.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.82E-06 | 382114 3765460 |

DOMINANT PATHWAYS, Receptor 10

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 10

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.07E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-07 |
| 0002 | 2.19E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.19E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.51E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.51E-07 |
| 0005 | 3.44E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.44E-06 |
| 0006 | 7.66E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.66E-08 |
| SUM | 4.60E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.60E-06 | 382134 3765460 |

DOMINANT PATHWAYS, Receptor 11

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 11

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.87E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.87E-07 |
| 0002 | 2.75E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0004 | 9.46E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.46E-07 | | | |
| 0005 | 4.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-06 | | | |
| 0006 | 9.59E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.59E-08 | | | |
| SUM | 5.86E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.86E-06 | 381954 | 3765480 | |

DOMINANT PATHWAYS, Receptor 12

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 12

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.31E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.31E-07 | |
| 0002 | 3.07E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 1.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-06 | |
| 0005 | 4.90E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.90E-06 | |
| 0006 | 1.07E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-07 | |
| SUM | 6.53E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.53E-06 | 381974 3765480 |

DOMINANT PATHWAYS, Receptor 13

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 13

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.87E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.87E-07 | |
| 0002 | 3.47E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.47E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 1.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.19E-06 | |
| 0005 | 5.55E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.55E-06 | |
| 0006 | 1.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-07 | |
| SUM | 7.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.38E-06 | 381994 3765480 |

DOMINANT PATHWAYS, Receptor 14

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 14

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.96E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.96E-07 |
| 0002 | 2.82E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.82E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 9.69E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.69E-07 |
| 0005 | 4.48E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.48E-06 |
| 0006 | 9.84E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.84E-08 |
| SUM | 5.97E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E-06 | 382014 3765480 |

DOMINANT PATHWAYS, Receptor 15

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 15

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-07 |
| 0002 | 2.17E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.44E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.44E-07 |
| 0005 | 3.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-06 |
| 0006 | 7.59E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.59E-08 |
| SUM | 4.54E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.54E-06 | 382034 3765480 |

DOMINANT PATHWAYS, Receptor 16

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 16

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.19E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-07 |
| 0002 | 2.28E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.79E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.79E-07 |
| 0005 | 3.54E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E-06 |
| 0006 | 7.97E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.97E-08 |
| SUM | 4.74E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.74E-06 | 382054 3765480 |

DOMINANT PATHWAYS, Receptor 17

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 17

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.10E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-07 |
| 0002 | 2.21E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.57E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.57E-07 |
| 0005 | 3.49E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.49E-06 |
| 0006 | 7.71E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.71E-08 |
| SUM | 4.66E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.66E-06 | 382074 3765480 |

DOMINANT PATHWAYS, Receptor 18

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 18

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.02E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.02E-07 |
| 0002 | 2.16E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.16E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.38E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.38E-07 |
| 0005 | 3.37E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.37E-06 |
| 0006 | 7.53E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.53E-08 |
| SUM | 4.50E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.50E-06 | 382094 3765480 |

DOMINANT PATHWAYS, Receptor 19

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 19

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.03E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-07 |
| 0002 | 2.17E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.42E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.42E-07 |
| 0005 | 3.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.35E-06 |
| 0006 | 7.59E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.59E-08 |
| SUM | 4.50E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.50E-06 | 382114 3765480 |

DOMINANT PATHWAYS, Receptor 20

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 20

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.92E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.92E-07 |
| 0002 | 2.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.13E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.13E-07 |
| 0005 | 3.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-06 |
| 0006 | 7.28E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.28E-08 |
| SUM | 4.33E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.33E-06 | 382134 3765480 |

DOMINANT PATHWAYS, Receptor 21

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 21

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.72E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.72E-07 |
| 0002 | 2.65E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.65E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 9.11E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.11E-07 |
| 0005 | 4.24E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.24E-06 |
| 0006 | 9.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.24E-08 |
| SUM | 5.64E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.64E-06 | 381954 3765500 |

DOMINANT PATHWAYS, Receptor 22

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 22

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.18E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.18E-07 |
| 0002 | 2.97E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.97E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 1.02E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-06 |
| 0005 | 4.75E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.75E-06 |
| 0006 | 1.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-07 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SUM | 6.33E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.33E-06 | 381974 | 3765500 |

DOMINANT PATHWAYS, Receptor 23

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 23

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.41E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.41E-07 | |
| 0002 | 2.43E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.43E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 8.34E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.34E-07 | |
| 0005 | 3.86E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.86E-06 | |
| 0006 | 8.47E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.47E-08 | |
| SUM | 5.15E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.15E-06 | 381994 3765500 |

DOMINANT PATHWAYS, Receptor 24

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 24

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.76E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.76E-07 | |
| 0002 | 2.68E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.68E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 9.19E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.19E-07 | |
| 0005 | 4.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.25E-06 | |
| 0006 | 9.34E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.34E-08 | |
| SUM | 5.67E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.67E-06 | 382014 3765500 |

DOMINANT PATHWAYS, Receptor 25

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 25

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.80E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.80E-07 | |
| 0002 | 2.00E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E-08 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 6.85E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.85E-07 | | |
| 0005 | 3.14E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.14E-06 | | |
| 0006 | 6.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.99E-08 | | |
| SUM | 4.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E-06 | 382034 | 3765500 |

DOMINANT PATHWAYS, Receptor 26

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 26

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.94E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.94E-07 | |
| 0002 | 2.10E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.10E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 7.19E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.19E-07 | |
| 0005 | 3.27E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-06 | |
| 0006 | 7.35E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.35E-08 | |
| SUM | 4.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.38E-06 | 382054 | 3765500 |

DOMINANT PATHWAYS, Receptor 27

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 27

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.98E-07 | |
| 0002 | 2.13E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 7.28E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.28E-07 | |
| 0005 | 3.27E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-06 | |
| 0006 | 7.45E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.45E-08 | |
| SUM | 4.39E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.39E-06 | 382074 | 3765500 |

DOMINANT PATHWAYS, Receptor 28

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 28

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.85E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.85E-07 |
| 0002 | 2.04E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 6.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.98E-07 |
| 0005 | 3.18E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.18E-06 |
| 0006 | 7.12E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.12E-08 |
| SUM | 4.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.25E-06 | 382094 3765500 |

DOMINANT PATHWAYS, Receptor 29

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 29

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.84E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.84E-07 |
| 0002 | 2.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.03E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 6.93E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.93E-07 |
| 0005 | 3.16E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.16E-06 |
| 0006 | 7.08E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.08E-08 |
| SUM | 4.23E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.23E-06 | 382114 3765500 |

DOMINANT PATHWAYS, Receptor 30

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 30

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.79E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.79E-07 |
| 0002 | 1.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 6.81E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.81E-07 |
| 0005 | 3.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-06 |
| 0006 | 6.95E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.95E-08 |
| SUM | 4.16E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.16E-06 | 382134 3765500 |

DOMINANT PATHWAYS, Receptor 31

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 31

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.59E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.59E-07 |
| 0002 | 2.56E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 8.79E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.79E-07 |
| 0005 | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 |
| 0006 | 8.91E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.91E-08 |
| SUM | 5.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E-06 | 381954 3765520 |

DOMINANT PATHWAYS, Receptor 32

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 32

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.05E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.05E-07 |
| 0002 | 2.88E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 9.90E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.90E-07 |
| 0005 | 4.61E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.61E-06 |
| 0006 | 1.00E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-07 |
| SUM | 6.13E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.13E-06 | 381974 3765520 |

DOMINANT PATHWAYS, Receptor 33

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 33

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-07 |
| 0002 | 2.31E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.31E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.93E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.93E-07 |
| 0005 | 3.67E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.67E-06 |
| 0006 | 8.06E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.06E-08 |
| SUM | 4.89E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.89E-06 | 381994 3765520 |

DOMINANT PATHWAYS, Receptor 34

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 34

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.58E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.58E-07 |
| 0002 | 2.55E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 8.76E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.76E-07 |
| 0005 | 4.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.05E-06 |
| 0006 | 8.90E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.90E-08 |
| SUM | 5.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.40E-06 | 382014 3765520 |

DOMINANT PATHWAYS, Receptor 35

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 35

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.64E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.64E-07 |
| 0002 | 1.89E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 6.45E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.45E-07 |
| 0005 | 2.95E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-06 |
| 0006 | 6.58E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.58E-08 |
| SUM | 3.95E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.95E-06 | 382034 3765520 |

DOMINANT PATHWAYS, Receptor 36

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 36

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.78E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.78E-07 |
| 0002 | 1.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 6.81E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.81E-07 |
| 0005 | 3.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-06 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | 6.95E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.95E-08 | | |
| SUM | 4.15E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-06 | 382054 | 3765520 |

DOMINANT PATHWAYS, Receptor 37

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 37

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.83E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.83E-07 | |
| 0002 | 2.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.03E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.92E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.92E-07 | |
| 0005 | 3.12E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.12E-06 | |
| 0006 | 7.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.09E-08 | |
| SUM | 4.18E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.18E-06 | 382074 | 3765520 |

DOMINANT PATHWAYS, Receptor 38

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 38

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.71E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71E-07 | |
| 0002 | 1.94E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.63E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.63E-07 | |
| 0005 | 3.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-06 | |
| 0006 | 6.75E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.75E-08 | |
| SUM | 4.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.06E-06 | 382094 | 3765520 |

DOMINANT PATHWAYS, Receptor 39

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 39

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.74E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-07 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | 1.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 6.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.70E-07 | | |
| 0005 | 3.07E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-06 | | |
| 0006 | 6.83E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.83E-08 | | |
| SUM | 4.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E-06 | 382114 | 3765520 |

DOMINANT PATHWAYS, Receptor 40

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 40

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.75E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-07 | |
| 0002 | 1.97E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.97E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.73E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.73E-07 | |
| 0005 | 3.08E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.08E-06 | |
| 0006 | 6.86E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.86E-08 | |
| SUM | 4.12E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.12E-06 | 382134 | 3765520 |

DOMINANT PATHWAYS, Receptor 41

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 41

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.46E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.46E-07 | |
| 0002 | 2.47E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 8.47E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.47E-07 | |
| 0005 | 3.94E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.94E-06 | |
| 0006 | 8.59E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.59E-08 | |
| SUM | 5.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.25E-06 | 381954 | 3765540 |

DOMINANT PATHWAYS, Receptor 42

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 42

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.90E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.90E-07 |
| 0002 | 2.78E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.78E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 9.55E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.55E-07 |
| 0005 | 4.44E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.44E-06 |
| 0006 | 9.68E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.68E-08 |
| SUM | 5.91E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.91E-06 | 381974 3765540 |

DOMINANT PATHWAYS, Receptor 43

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 43

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.09E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.09E-07 |
| 0002 | 2.21E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.21E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 7.57E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.57E-07 |
| 0005 | 3.51E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.51E-06 |
| 0006 | 7.69E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.69E-08 |
| SUM | 4.67E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.67E-06 | 381994 3765540 |

DOMINANT PATHWAYS, Receptor 44

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 44

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.42E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.42E-07 |
| 0002 | 2.44E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.44E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 8.36E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.36E-07 |
| 0005 | 3.87E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.87E-06 |
| 0006 | 8.49E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.49E-08 |
| SUM | 5.16E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.16E-06 | 382014 3765540 |

DOMINANT PATHWAYS, Receptor 45

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 45

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.84E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.84E-07 |
| 0002 | 2.74E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.74E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 9.40E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.40E-07 |
| 0005 | 4.35E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.35E-06 |
| 0006 | 9.55E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.55E-08 |
| SUM | 5.80E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.80E-06 | 382034 3765540 |

DOMINANT PATHWAYS, Receptor 46

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 46

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.67E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.67E-07 |
| 0002 | 1.91E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.91E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 6.53E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 6.53E-07 |
| 0005 | 2.98E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.98E-06 |
| 0006 | 6.67E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 6.67E-08 |
| SUM | 3.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.99E-06 | 382054 3765540 |

DOMINANT PATHWAYS, Receptor 47

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 47

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.75E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.75E-07 |
| 0002 | 1.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.96E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 6.71E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 6.71E-07 |
| 0005 | 3.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.03E-06 |
| 0006 | 6.86E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 6.86E-08 |
| SUM | 4.06E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.06E-06 | 382074 3765540 |

DOMINANT PATHWAYS, Receptor 48

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 48

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.67E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.67E-07 | |
| 0002 | 1.90E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.52E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.52E-07 | |
| 0005 | 2.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-06 | |
| 0006 | 6.64E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.64E-08 | |
| SUM | 4.00E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-06 | 382094 3765540 |

DOMINANT PATHWAYS, Receptor 49

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 49

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.75E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-07 | |
| 0002 | 1.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.72E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.72E-07 | |
| 0005 | 3.08E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.08E-06 | |
| 0006 | 6.84E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.84E-08 | |
| SUM | 4.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.11E-06 | 382114 3765540 |

DOMINANT PATHWAYS, Receptor 50

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 50

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.82E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.82E-07 | |
| 0002 | 2.01E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.89E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.89E-07 | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0005 | 3.15E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-06 | | | |
| 0006 | 7.02E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.02E-08 | | | |
| SUM | 4.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E-06 | 382134 | 3765540 | |

DOMINANT PATHWAYS, Receptor 51

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 51

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.33E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.33E-07 | |
| 0002 | 2.37E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.37E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 8.14E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.14E-07 | |
| 0005 | 3.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.79E-06 | |
| 0006 | 8.25E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.25E-08 | |
| SUM | 5.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.04E-06 | 381954 | 3765560 |

DOMINANT PATHWAYS, Receptor 52

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 52

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.74E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E-07 | |
| 0002 | 2.66E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 9.14E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.14E-07 | |
| 0005 | 4.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-06 | |
| 0006 | 9.27E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.27E-08 | |
| SUM | 5.66E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.66E-06 | 381974 | 3765560 |

DOMINANT PATHWAYS, Receptor 53

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 53

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.96E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.96E-07 | | |
| 0002 | 2.11E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.11E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 7.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.24E-07 | | |
| 0005 | 3.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.36E-06 | | |
| 0006 | 7.35E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.35E-08 | | |
| SUM | 4.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.47E-06 | 381994 | 3765560 |

DOMINANT PATHWAYS, Receptor 54

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 54

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.26E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-07 | | |
| 0002 | 2.32E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.32E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 7.97E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.97E-07 | | |
| 0005 | 3.69E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.69E-06 | | |
| 0006 | 8.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.09E-08 | | |
| SUM | 4.91E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.91E-06 | 382014 | 3765560 |

DOMINANT PATHWAYS, Receptor 55

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 55

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.64E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.64E-07 | | |
| 0002 | 2.59E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.59E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 8.89E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.89E-07 | | |
| 0005 | 4.12E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.12E-06 | | |
| 0006 | 9.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.03E-08 | | |
| SUM | 5.49E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.49E-06 | 382034 | 3765560 |

DOMINANT PATHWAYS, Receptor 56

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 56

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.60E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.60E-07 |
| 0002 | 1.86E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 6.35E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.35E-07 |
| 0005 | 2.90E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-06 |
| 0006 | 6.48E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.48E-08 |
| SUM | 3.88E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.88E-06 | 382054 3765560 |

DOMINANT PATHWAYS, Receptor 57

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 57

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.79E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.79E-07 |
| 0002 | 1.99E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 6.81E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.81E-07 |
| 0005 | 3.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.10E-06 |
| 0006 | 6.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.96E-08 |
| SUM | 4.15E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-06 | 382074 3765560 |

DOMINANT PATHWAYS, Receptor 58

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 58

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.90E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-07 |
| 0002 | 2.08E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.10E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.10E-07 |
| 0005 | 3.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-06 |
| 0006 | 7.27E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.27E-08 |
| SUM | 4.28E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.28E-06 | 382094 3765560 |

DOMINANT PATHWAYS, Receptor 59

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | YES | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 59

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.84E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.84E-07 |
| 0002 | 2.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.03E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 6.95E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 6.95E-07 |
| 0005 | 3.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.19E-06 |
| 0006 | 7.09E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.09E-08 |
| SUM | 4.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-06 | 382114 3765560 |

DOMINANT PATHWAYS, Receptor 60

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 60

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.01E-07 |
| 0002 | 2.15E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.15E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 7.35E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.35E-07 |
| 0005 | 3.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.36E-06 |
| 0006 | 7.50E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.50E-08 |
| SUM | 4.49E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.49E-06 | 382134 3765560 |

DOMINANT PATHWAYS, Receptor 61

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 61

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.18E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.18E-07 |
| 0002 | 2.27E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.27E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 7.79E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.79E-07 |
| 0005 | 3.63E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.63E-06 |
| 0006 | 7.90E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 7.90E-08 |
| SUM | 4.83E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.83E-06 | 381954 3765580 |

DOMINANT PATHWAYS, Receptor 62

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 62

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.55E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.55E-07 |
| 0002 | 2.53E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 8.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.70E-07 |
| 0005 | 4.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.05E-06 |
| 0006 | 8.82E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.82E-08 |
| SUM | 5.39E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.39E-06 | 381974 3765580 |

DOMINANT PATHWAYS, Receptor 63

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 63

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.03E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-07 |
| 0002 | 2.87E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 9.87E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.87E-07 |
| 0005 | 4.60E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.60E-06 |
| 0006 | 1.00E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E-07 |
| SUM | 6.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.11E-06 | 381994 3765580 |

DOMINANT PATHWAYS, Receptor 64

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 64

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.11E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-07 |
| 0002 | 2.21E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0004 | 7.60E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.60E-07 | | |
| 0005 | 3.52E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.52E-06 | | |
| 0006 | 7.72E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.72E-08 | | |
| SUM | 4.69E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.69E-06 | 382014 | 3765580 |

DOMINANT PATHWAYS, Receptor 65

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 65

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.44E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.44E-07 | | |
| 0002 | 2.45E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.45E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 8.41E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.41E-07 | | |
| 0005 | 3.89E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.89E-06 | | |
| 0006 | 8.54E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.54E-08 | | |
| SUM | 5.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E-06 | 382034 | 3765580 |

DOMINANT PATHWAYS, Receptor 66

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 66

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.85E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.85E-07 | | |
| 0002 | 2.75E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 9.43E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.43E-07 | | |
| 0005 | 4.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.36E-06 | | |
| 0006 | 9.58E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.58E-08 | | |
| SUM | 5.81E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.81E-06 | 382054 | 3765580 |

DOMINANT PATHWAYS, Receptor 67

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 67

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.75E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.75E-07 | |
| 0002 | 1.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.72E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.72E-07 | |
| 0005 | 3.07E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-06 | |
| 0006 | 6.85E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.85E-08 | |
| SUM | 4.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E-06 | 382074 3765580 |

DOMINANT PATHWAYS, Receptor 68

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 68

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.98E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.98E-07 | |
| 0002 | 2.14E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 7.30E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.30E-07 | |
| 0005 | 3.32E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.32E-06 | |
| 0006 | 7.46E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.46E-08 | |
| SUM | 4.44E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.44E-06 | 382094 3765580 |

DOMINANT PATHWAYS, Receptor 69

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 69

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.13E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E-07 | |
| 0002 | 2.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.24E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 7.64E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.64E-07 | |
| 0005 | 3.43E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-06 | |
| 0006 | 7.83E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.83E-08 | |
| SUM | 4.61E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.61E-06 | 382114 3765580 |

DOMINANT PATHWAYS, Receptor 70

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 70

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.11E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.11E-07 |
| 0002 | 2.23E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.23E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.62E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.62E-07 |
| 0005 | 3.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.47E-06 |
| 0006 | 7.77E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.77E-08 |
| SUM | 4.64E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E-06 | 382134 3765580 |

DOMINANT PATHWAYS, Receptor 71

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 71

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.04E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.04E-07 |
| 0002 | 2.17E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.44E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.44E-07 |
| 0005 | 3.46E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.46E-06 |
| 0006 | 7.54E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.54E-08 |
| SUM | 4.61E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.61E-06 | 381954 3765600 |

DOMINANT PATHWAYS, Receptor 72

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 72

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.37E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.37E-07 |
| 0002 | 2.40E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.40E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 8.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.24E-07 |
| 0005 | 3.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.84E-06 |
| 0006 | 8.35E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.35E-08 |
| SUM | 5.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.11E-06 | 381974 3765600 |

DOMINANT PATHWAYS, Receptor 73

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 73

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.78E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-07 |
| 0002 | 2.69E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.69E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 9.24E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.24E-07 |
| 0005 | 4.30E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.30E-06 |
| 0006 | 9.36E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.36E-08 |
| SUM | 5.72E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.72E-06 | 381994 3765600 |

DOMINANT PATHWAYS, Receptor 74

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 74

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.28E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.28E-07 |
| 0002 | 3.05E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.05E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 1.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-06 |
| 0005 | 4.88E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.88E-06 |
| 0006 | 1.06E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-07 |
| SUM | 6.50E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.50E-06 | 382014 3765600 |

DOMINANT PATHWAYS, Receptor 75

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 75

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.27E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.27E-07 |
| 0002 | 2.33E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.33E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 8.00E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.00E-07 |
| 0005 | 3.71E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-06 |
| 0006 | 8.13E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.13E-08 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SUM | 4.94E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.94E-06 | 382034 | 3765600 |

DOMINANT PATHWAYS, Receptor 76

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 76

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.63E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.63E-07 | |
| 0002 | 2.58E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.58E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 8.87E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.87E-07 | |
| 0005 | 4.10E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E-06 | |
| 0006 | 9.01E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.01E-08 | |
| SUM | 5.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.47E-06 | 382054 3765600 |

DOMINANT PATHWAYS, Receptor 77

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 77

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.06E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.06E-07 | |
| 0002 | 2.89E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.89E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 9.93E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.93E-07 | |
| 0005 | 4.59E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.59E-06 | |
| 0006 | 1.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-07 | |
| SUM | 6.12E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.12E-06 | 382074 3765600 |

DOMINANT PATHWAYS, Receptor 78

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 78

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.03E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-07 | |
| 0002 | 2.17E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-08 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | | |
| 0004 | 7.41E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.41E-07 | | |
| 0005 | 3.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.38E-06 | | |
| 0006 | 7.56E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.56E-08 | | |
| SUM | 4.52E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.52E-06 | 382094 | 3765600 |

DOMINANT PATHWAYS, Receptor 79

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 79

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.20E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.20E-07 | |
| 0002 | 2.29E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 7.82E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.82E-07 | |
| 0005 | 3.53E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.53E-06 | |
| 0006 | 8.00E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.00E-08 | |
| SUM | 4.73E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.73E-06 | 382114 | 3765600 |

DOMINANT PATHWAYS, Receptor 80

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 80

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.21E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E-07 | |
| 0002 | 2.29E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 7.86E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.86E-07 | |
| 0005 | 3.61E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.61E-06 | |
| 0006 | 8.00E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.00E-08 | |
| SUM | 4.82E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.82E-06 | 382134 | 3765600 |

DOMINANT PATHWAYS, Receptor 81

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 81

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.90E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-07 |
| 0002 | 2.07E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.10E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.10E-07 |
| 0005 | 3.31E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.31E-06 |
| 0006 | 7.20E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.20E-08 |
| SUM | 4.40E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.40E-06 | 381954 3765620 |

DOMINANT PATHWAYS, Receptor 82

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 82

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.19E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-07 |
| 0002 | 2.27E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.27E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 7.81E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.81E-07 |
| 0005 | 3.64E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.64E-06 |
| 0006 | 7.91E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.91E-08 |
| SUM | 4.84E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.84E-06 | 381974 3765620 |

DOMINANT PATHWAYS, Receptor 83

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 83

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.54E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E-07 |
| 0002 | 2.52E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.52E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 8.66E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.66E-07 |
| 0005 | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 |
| 0006 | 8.77E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.77E-08 |
| SUM | 5.36E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.36E-06 | 381994 3765620 |

DOMINANT PATHWAYS, Receptor 84

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 84

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.95E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.95E-07 |
| 0002 | 2.82E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.82E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 9.68E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.68E-07 |
| 0005 | 4.51E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.51E-06 |
| 0006 | 9.81E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 9.81E-08 |
| SUM | 5.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 382014 | 3765620 |

DOMINANT PATHWAYS, Receptor 85

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 85

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.45E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.45E-07 |
| 0002 | 3.17E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.17E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 1.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.09E-06 |
| 0005 | 5.07E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 5.07E-06 |
| 0006 | 1.10E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.10E-07 |
| SUM | 6.75E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 382034 | 3765620 |

DOMINANT PATHWAYS, Receptor 86

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 86

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.46E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.46E-07 |
| 0002 | 2.46E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.46E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 8.46E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.46E-07 |
| 0005 | 3.91E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.91E-06 |
| 0006 | 8.59E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 8.59E-08 |
| SUM | 5.22E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 382054 | 3765620 |

DOMINANT PATHWAYS, Receptor 87

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 87

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.84E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.84E-07 |
| 0002 | 2.74E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 9.39E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.39E-07 |
| 0005 | 4.34E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.34E-06 |
| 0006 | 9.54E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.54E-08 |
| SUM | 5.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.79E-06 | 382074 3765620 |

DOMINANT PATHWAYS, Receptor 88

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 88

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.30E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.30E-07 |
| 0002 | 3.07E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 1.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-06 |
| 0005 | 4.86E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.86E-06 |
| 0006 | 1.07E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-07 |
| SUM | 6.48E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.48E-06 | 382094 3765620 |

DOMINANT PATHWAYS, Receptor 89

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 89

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.68E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.68E-07 |
| 0002 | 3.34E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.34E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 1.15E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-06 |
| 0005 | 5.25E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.25E-06 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | 1.17E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.17E-07 | | |
| SUM | 7.02E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.02E-06 | 382114 | 3765620 |

DOMINANT PATHWAYS, Receptor 90

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 90

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.45E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.45E-07 | |
| 0002 | 2.46E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.46E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 8.44E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.44E-07 | |
| 0005 | 3.90E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.90E-06 | |
| 0006 | 8.57E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.57E-08 | |
| SUM | 5.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.19E-06 | 382134 3765620 |

DOMINANT PATHWAYS, Receptor 91

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 91

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.77E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.77E-07 | |
| 0002 | 1.98E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.79E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.79E-07 | |
| 0005 | 3.16E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.16E-06 | |
| 0006 | 6.88E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-08 | |
| SUM | 4.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E-06 | 381954 3765640 |

DOMINANT PATHWAYS, Receptor 92

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 92

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.03E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E-07 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | 2.16E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.16E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 7.41E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.41E-07 | | |
| 0005 | 3.45E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.45E-06 | | |
| 0006 | 7.51E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.51E-08 | | |
| SUM | 4.59E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.59E-06 | 381974 | 3765640 |

DOMINANT PATHWAYS, Receptor 93

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 93

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.33E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.33E-07 | |
| 0002 | 2.37E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.37E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 8.15E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.15E-07 | |
| 0005 | 3.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.79E-06 | |
| 0006 | 8.26E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.26E-08 | |
| SUM | 5.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.05E-06 | 381994 | 3765640 |

DOMINANT PATHWAYS, Receptor 94

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 94

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 3.68E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.68E-07 | |
| 0002 | 2.62E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 9.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.01E-07 | |
| 0005 | 4.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E-06 | |
| 0006 | 9.13E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.13E-08 | |
| SUM | 5.58E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.58E-06 | 382014 | 3765640 |

DOMINANT PATHWAYS, Receptor 95

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 95

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.09E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.09E-07 |
| 0002 | 2.91E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.91E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 1.00E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.00E-06 |
| 0005 | 4.65E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.65E-06 |
| 0006 | 1.01E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.01E-07 |
| SUM | 6.19E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.19E-06 | 382034 3765640 |

DOMINANT PATHWAYS, Receptor 96

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 96

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.55E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.55E-07 |
| 0002 | 3.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.24E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 1.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.11E-06 |
| 0005 | 5.18E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 5.18E-06 |
| 0006 | 1.13E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.13E-07 |
| SUM | 6.90E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.90E-06 | 382054 3765640 |

DOMINANT PATHWAYS, Receptor 97

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | |

DERIVED CANCER RISK, RECEPTOR 97

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 5.06E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 5.06E-07 |
| 0002 | 3.61E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.61E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 1.24E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.24E-06 |
| 0005 | 5.76E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 5.76E-06 |
| 0006 | 1.26E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.26E-07 |
| SUM | 7.67E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.67E-06 | 382074 3765640 |

DOMINANT PATHWAYS, Receptor 98

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 98

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.14E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.14E-07 |
| 0002 | 2.95E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 2.95E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 1.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.01E-06 |
| 0005 | 4.68E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.68E-06 |
| 0006 | 1.03E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.03E-07 |
| SUM | 6.24E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.24E-06 | 382094 3765640 |

DOMINANT PATHWAYS, Receptor 99

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 99

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 4.55E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 4.55E-07 |
| 0002 | 3.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.24E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 1.11E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.11E-06 |
| 0005 | 5.12E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 5.12E-06 |
| 0006 | 1.13E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.13E-07 |
| SUM | 6.83E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.83E-06 | 382114 3765640 |

DOMINANT PATHWAYS, Receptor 100

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 100

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 5.15E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 5.15E-07 |
| 0002 | 3.68E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 3.68E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 0.00E+00 |
| 0004 | 1.26E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.26E-06 |
| 0005 | 5.76E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 5.76E-06 |
| 0006 | 1.28E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | 1.28E-07 |
| SUM | 7.70E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.70E-06 | 382134 3765640 |

DOMINANT PATHWAYS, Receptor 101

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 101

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.74E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-07 | |
| 0002 | 1.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.70E-07 | |
| 0005 | 3.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.05E-06 | |
| 0006 | 6.84E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.84E-08 | |
| SUM | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 3765565 |

DOMINANT PATHWAYS, Receptor 102

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 102

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.74E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-07 | |
| 0002 | 1.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.70E-07 | |
| 0005 | 3.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.05E-06 | |
| 0006 | 6.84E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.84E-08 | |
| SUM | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 3765565 |

DOMINANT PATHWAYS, Receptor 103

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 103

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.74E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-07 | |
| 0002 | 1.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.70E-07 | |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0005 | 3.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.05E-06 | | |
| 0006 | 6.84E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.84E-08 | | |
| SUM | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 | 3765565 |

DOMINANT PATHWAYS, Receptor 104

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 104

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.74E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-07 |
| 0002 | 1.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 6.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.70E-07 | |
| 0005 | 3.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.05E-06 | |
| 0006 | 6.84E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.84E-08 | |
| SUM | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 | 3765565 |

DOMINANT PATHWAYS, Receptor 105

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 105

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.74E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-07 |
| 0002 | 1.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 6.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.70E-07 | |
| 0005 | 3.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.05E-06 | |
| 0006 | 6.84E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.84E-08 | |
| SUM | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 | 3765565 |

DOMINANT PATHWAYS, Receptor 106

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | | |
| 0002 | YES | - | - | - | - | - | - | - | - | - | | |
| 0003 | - | - | - | - | - | - | - | - | - | - | | |
| 0004 | YES | - | - | - | - | - | - | - | - | - | | |
| 0005 | YES | - | - | - | - | - | - | - | - | - | | |
| 0006 | YES | - | - | - | - | - | - | - | - | - | | |

DERIVED CANCER RISK, RECEPTOR 106

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.74E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-07 | | |
| 0002 | 1.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-08 | | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | | |
| 0004 | 6.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.70E-07 | | |
| 0005 | 3.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.05E-06 | | |
| 0006 | 6.84E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.84E-08 | | |
| SUM | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 | 3765565 |

DOMINANT PATHWAYS, Receptor 107

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 107

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.74E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-07 | |
| 0002 | 1.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.70E-07 | |
| 0005 | 3.05E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.05E-06 | |
| 0006 | 6.84E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.84E-08 | |
| SUM | 4.09E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 382071 | 3765565 |

DOMINANT PATHWAYS, Receptor 108

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 108

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-07 | |
| 0002 | 1.93E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.60E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.60E-07 | |
| 0005 | 3.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-06 | |
| 0006 | 6.73E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.73E-08 | |
| SUM | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 | 3765530 |

DOMINANT PATHWAYS, Receptor 109

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 109

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-07 |
| 0002 | 1.93E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 6.60E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.60E-07 |
| 0005 | 3.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-06 |
| 0006 | 6.73E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.73E-08 |
| SUM | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 110

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 110

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-07 |
| 0002 | 1.93E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 6.60E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.60E-07 |
| 0005 | 3.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-06 |
| 0006 | 6.73E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.73E-08 |
| SUM | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 111

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 111

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-07 |
| 0002 | 1.93E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-08 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 0004 | 6.60E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.60E-07 |
| 0005 | 3.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-06 |
| 0006 | 6.73E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.73E-08 |
| SUM | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 112

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | YES | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 112

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-07 | |
| 0002 | 1.93E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.60E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.60E-07 | |
| 0005 | 3.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-06 | |
| 0006 | 6.73E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.73E-08 | |
| SUM | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 113

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 113

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-07 | |
| 0002 | 1.93E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.60E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.60E-07 | |
| 0005 | 3.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-06 | |
| 0006 | 6.73E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.73E-08 | |
| SUM | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 3765530 |

DOMINANT PATHWAYS, Receptor 114

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0002 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0003 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0004 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0005 | YES | - | - | - | - | - | - | - | - | - | - | - |
| 0006 | YES | - | - | - | - | - | - | - | - | - | - | - |

DERIVED CANCER RISK, RECEPTOR 114

| CHEM | INHAL | DERM | SOIL | MOTHER | FISH | WATER | VEG | DAIRY | BEEF | CHICK | PIG | EGG | MEAT | ORAL | TOTAL | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 2.70E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.70E-07 | |
| 0002 | 1.93E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-08 | |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 0004 | 6.60E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.60E-07 | |
| 0005 | 3.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-06 | |
| 0006 | 6.73E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.73E-08 | |
| SUM | 4.03E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.03E-06 | 382051 3765530 |

This file: c:\HARP\projects\demo\Rep_Chr_Res_DerOEH_AllRec_AllSrc_AllCh_ByRec_Site_UTM.txt

Created by HARP Version 1.4f  Build 23.11.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 11/7/2016 10:42:27 AM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: USC.EMS
Site parameters file: c:\HARP\projects\demo\project.sit

Screening mode is OFF

Exposure duration: resident
Analysis method: Derived (OEHHA) Method
Health effect: Chronic HI
Receptor(s): All
Sources(s): All
Chemicals(s): All

SITE PARAMETERS

DEPOSITION

Deposition rate (m/s) 0.05

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

*** Pathway disabled ***

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway disabled ***

SOIL INGESTION

*** Pathway disabled ***

MOTHER'S MILK

*** Pathway disabled ***

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

| CHEM | CAS | ABBREVIATION | POLLUTANT NAME | BACKGROUND (ug/m^3) |
|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 1,3-Butadiene | 0.000E+00 |
| 0002 | 75070 | Acetaldehyde | Acetaldehyde | 0.000E+00 |
| 0003 | 107028 | Acrolein | Acrolein | 0.000E+00 |
| 0004 | 71432 | Benzene | Benzene | 0.000E+00 |
| 0005 | 9901 | DieselExhPM | Diesel engine exhaust, particulate matter (Diesel PM) | 0.000E+00 |
| 0006 | 50000 | Formaldehyde | Formaldehyde | 0.000E+00 |

CHEMICAL HEALTH VALUES

| CHEM | CAS | ABBREVIATION | CancerPF(Inh) (mg/kg-d)^-1 | CancerPF(Oral) (mg/kg-d)^-1 | ChronicREL(Inh) ug/m^3 | ChronicREL(Oral) mg/kg-d | AcuteREL ug/m^3 |
|---|---|---|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 6.00E-01 | * | 2.00E+01 | * | * |
| 0002 | 75070 | Acetaldehyde | 1.00E-02 | * | 1.40E+02 | * | 4.70E+02 |
| 0003 | 107028 | Acrolein | * | * | 3.50E-01 | * | 2.50E+00 |
| 0004 | 71432 | Benzene | 1.00E-01 | * | 6.00E+01 | * | 1.30E+03 |
| 0005 | 9901 | DieselExhPM | 1.10E+00 | * | 5.00E+00 | * | * |
| 0006 | 50000 | Formaldehyde | 2.10E-02 | * | 9.00E+00 | * | 5.50E+01 |

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.EMS
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=1001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=1002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=3 NAME=1003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=4 NAME=1004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=5 NAME=1005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=6 NAME=1006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=7 NAME=1007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=8 NAME=1008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=9 NAME=1009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=10 NAME=1010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=11 NAME=1011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=12 NAME=1012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=13 NAME=1013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=14 NAME=1014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=15 NAME=3001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=16 NAME=3002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=17 NAME=3003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=18 NAME=3004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=19 NAME=3005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=20 NAME=3006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=21 NAME=3007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=22 NAME=3008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=23 NAME=3009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |

| | | | | | |
|---|---|---|---|---|---|
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=24 NAME=3010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.95E-01 | 2.23E-05 |
| 75070 | Acetaldehyde | 1 | 0 | 8.72E-01 | 9.96E-05 |
| 107028 | Acrolein | 1 | 0 | 4.87E-02 | 5.56E-06 |
| 71432 | Benzene | 1 | 0 | 2.83E+00 | 3.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 8.18E-01 | 9.34E-05 |
| 50000 | Formaldehyde | 1 | 0 | 1.49E+00 | 1.70E-04 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=25 NAME=3011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=26 NAME=3012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=27 NAME=3013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=28 NAME=3014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=29 NAME=3015 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=30 NAME=3016 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=31 NAME=3017 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=32 NAME=3018 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=33 NAME=3019 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=34 NAME=3020 EMS (lbs/yr)

SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |

| | | | | Chronic | |
|---|---|---|---|---|---|
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

CHRONIC HI REPORT

| REC | CV | CNS | BONE | DEVEL | ENDO | EYE | GILV | IMMUN | KIDN | REPRO | RESP | SKIN | BLOOD | MAX | UTME | UTMN | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 0.00E+00 | 1.02E-03 | 0.00E+00 | 1.02E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E-04 | 1.16E-02 | 0.00E+00 | 1.02E-03 | 1.16E-02 | 381954 | 3765460 |
| 0002 | 0.00E+00 | 1.13E-03 | 0.00E+00 | 1.13E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.31E-04 | 1.29E-02 | 0.00E+00 | 1.13E-03 | 1.29E-02 | 381974 | 3765460 |
| 0003 | 0.00E+00 | 1.26E-03 | 0.00E+00 | 1.26E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.58E-04 | 1.44E-02 | 0.00E+00 | 1.26E-03 | 1.44E-02 | 381994 | 3765460 |
| 0004 | 0.00E+00 | 1.07E-03 | 0.00E+00 | 1.07E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-04 | 1.21E-02 | 0.00E+00 | 1.07E-03 | 1.21E-02 | 382014 | 3765460 |
| 0005 | 0.00E+00 | 1.17E-03 | 0.00E+00 | 1.17E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.40E-04 | 1.33E-02 | 0.00E+00 | 1.17E-03 | 1.33E-02 | 382034 | 3765460 |
| 0006 | 0.00E+00 | 8.65E-04 | 0.00E+00 | 8.65E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-04 | 9.74E-03 | 0.00E+00 | 8.65E-04 | 9.74E-03 | 382054 | 3765460 |
| 0007 | 0.00E+00 | 7.99E-04 | 0.00E+00 | 7.99E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.63E-04 | 9.07E-03 | 0.00E+00 | 7.99E-04 | 9.07E-03 | 382074 | 3765460 |
| 0008 | 0.00E+00 | 7.93E-04 | 0.00E+00 | 7.93E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-04 | 8.99E-03 | 0.00E+00 | 7.93E-04 | 8.99E-03 | 382094 | 3765460 |
| 0009 | 0.00E+00 | 8.11E-04 | 0.00E+00 | 8.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.66E-04 | 9.20E-03 | 0.00E+00 | 8.11E-04 | 9.20E-03 | 382114 | 3765460 |
| 0010 | 0.00E+00 | 7.75E-04 | 0.00E+00 | 7.75E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-04 | 8.78E-03 | 0.00E+00 | 7.75E-04 | 8.78E-03 | 382134 | 3765460 |
| 0011 | 0.00E+00 | 9.76E-04 | 0.00E+00 | 9.76E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-04 | 1.11E-02 | 0.00E+00 | 9.76E-04 | 1.11E-02 | 381954 | 3765480 |
| 0012 | 0.00E+00 | 1.09E-03 | 0.00E+00 | 1.09E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.22E-04 | 1.24E-02 | 0.00E+00 | 1.09E-03 | 1.24E-02 | 381974 | 3765480 |
| 0013 | 0.00E+00 | 1.23E-03 | 0.00E+00 | 1.23E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.52E-04 | 1.40E-02 | 0.00E+00 | 1.23E-03 | 1.40E-02 | 381994 | 3765480 |
| 0014 | 0.00E+00 | 1.00E-03 | 0.00E+00 | 1.00E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-04 | 1.14E-02 | 0.00E+00 | 1.00E-03 | 1.14E-02 | 382014 | 3765480 |
| 0015 | 0.00E+00 | 7.67E-04 | 0.00E+00 | 7.67E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-04 | 8.69E-03 | 0.00E+00 | 7.67E-04 | 8.69E-03 | 382034 | 3765480 |
| 0016 | 0.00E+00 | 8.04E-04 | 0.00E+00 | 8.04E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-04 | 9.09E-03 | 0.00E+00 | 8.04E-04 | 9.09E-03 | 382054 | 3765480 |
| 0017 | 0.00E+00 | 7.81E-04 | 0.00E+00 | 7.81E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-04 | 8.88E-03 | 0.00E+00 | 7.81E-04 | 8.88E-03 | 382074 | 3765480 |
| 0018 | 0.00E+00 | 7.61E-04 | 0.00E+00 | 7.61E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-04 | 8.61E-03 | 0.00E+00 | 7.61E-04 | 8.61E-03 | 382094 | 3765480 |
| 0019 | 0.00E+00 | 7.65E-04 | 0.00E+00 | 7.65E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-04 | 8.63E-03 | 0.00E+00 | 7.65E-04 | 8.63E-03 | 382114 | 3765480 |
| 0020 | 0.00E+00 | 7.36E-04 | 0.00E+00 | 7.36E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.50E-04 | 8.31E-03 | 0.00E+00 | 7.36E-04 | 8.31E-03 | 382134 | 3765480 |
| 0021 | 0.00E+00 | 9.40E-04 | 0.00E+00 | 9.40E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.92E-04 | 1.07E-02 | 0.00E+00 | 9.40E-04 | 1.07E-02 | 381954 | 3765500 |
| 0022 | 0.00E+00 | 1.05E-03 | 0.00E+00 | 1.05E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.15E-04 | 1.20E-02 | 0.00E+00 | 1.05E-03 | 1.20E-02 | 381974 | 3765500 |
| 0023 | 0.00E+00 | 8.61E-04 | 0.00E+00 | 8.61E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.76E-04 | 9.79E-03 | 0.00E+00 | 8.61E-04 | 9.79E-03 | 381994 | 3765500 |
| 0024 | 0.00E+00 | 9.48E-04 | 0.00E+00 | 9.48E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-04 | 1.08E-02 | 0.00E+00 | 9.48E-04 | 1.08E-02 | 382014 | 3765500 |
| 0025 | 0.00E+00 | 7.07E-04 | 0.00E+00 | 7.07E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-04 | 8.01E-03 | 0.00E+00 | 7.07E-04 | 8.01E-03 | 382034 | 3765500 |
| 0026 | 0.00E+00 | 7.42E-04 | 0.00E+00 | 7.42E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E-04 | 8.39E-03 | 0.00E+00 | 7.42E-04 | 8.39E-03 | 382054 | 3765500 |
| 0027 | 0.00E+00 | 7.51E-04 | 0.00E+00 | 7.51E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E-04 | 8.45E-03 | 0.00E+00 | 7.51E-04 | 8.45E-03 | 382074 | 3765500 |
| 0028 | 0.00E+00 | 7.20E-04 | 0.00E+00 | 7.20E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-04 | 8.14E-03 | 0.00E+00 | 7.20E-04 | 8.14E-03 | 382094 | 3765500 |
| 0029 | 0.00E+00 | 7.16E-04 | 0.00E+00 | 7.16E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-04 | 8.09E-03 | 0.00E+00 | 7.16E-04 | 8.09E-03 | 382114 | 3765500 |
| 0030 | 0.00E+00 | 7.03E-04 | 0.00E+00 | 7.03E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E-04 | 7.95E-03 | 0.00E+00 | 7.03E-04 | 7.95E-03 | 382134 | 3765500 |
| 0031 | 0.00E+00 | 9.07E-04 | 0.00E+00 | 9.07E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-04 | 1.03E-02 | 0.00E+00 | 9.07E-04 | 1.03E-02 | 381954 | 3765520 |
| 0032 | 0.00E+00 | 1.02E-03 | 0.00E+00 | 1.02E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E-04 | 1.16E-02 | 0.00E+00 | 1.02E-03 | 1.16E-02 | 381974 | 3765520 |
| 0033 | 0.00E+00 | 8.19E-04 | 0.00E+00 | 8.19E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-04 | 9.31E-03 | 0.00E+00 | 8.19E-04 | 9.31E-03 | 381994 | 3765520 |
| 0034 | 0.00E+00 | 9.04E-04 | 0.00E+00 | 9.04E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-04 | 1.03E-02 | 0.00E+00 | 9.04E-04 | 1.03E-02 | 382014 | 3765520 |
| 0035 | 0.00E+00 | 6.66E-04 | 0.00E+00 | 6.66E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-04 | 7.54E-03 | 0.00E+00 | 6.66E-04 | 7.54E-03 | 382034 | 3765520 |
| 0036 | 0.00E+00 | 7.02E-04 | 0.00E+00 | 7.02E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E-04 | 7.95E-03 | 0.00E+00 | 7.02E-04 | 7.95E-03 | 382054 | 3765520 |
| 0037 | 0.00E+00 | 7.14E-04 | 0.00E+00 | 7.14E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-04 | 8.04E-03 | 0.00E+00 | 7.14E-04 | 8.04E-03 | 382074 | 3765520 |
| 0038 | 0.00E+00 | 6.84E-04 | 0.00E+00 | 6.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-04 | 7.75E-03 | 0.00E+00 | 6.84E-04 | 7.75E-03 | 382094 | 3765520 |
| 0039 | 0.00E+00 | 6.92E-04 | 0.00E+00 | 6.92E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-04 | 7.83E-03 | 0.00E+00 | 6.92E-04 | 7.83E-03 | 382114 | 3765520 |
| 0040 | 0.00E+00 | 6.95E-04 | 0.00E+00 | 6.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-04 | 7.87E-03 | 0.00E+00 | 6.95E-04 | 7.87E-03 | 382134 | 3765520 |
| 0041 | 0.00E+00 | 8.74E-04 | 0.00E+00 | 8.74E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-04 | 9.96E-03 | 0.00E+00 | 8.74E-04 | 9.96E-03 | 381954 | 3765540 |
| 0042 | 0.00E+00 | 9.85E-04 | 0.00E+00 | 9.85E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-04 | 1.12E-02 | 0.00E+00 | 9.85E-04 | 1.12E-02 | 381974 | 3765540 |
| 0043 | 0.00E+00 | 7.81E-04 | 0.00E+00 | 7.81E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-04 | 8.89E-03 | 0.00E+00 | 7.81E-04 | 8.89E-03 | 381994 | 3765540 |
| 0044 | 0.00E+00 | 8.63E-04 | 0.00E+00 | 8.63E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.76E-04 | 9.81E-03 | 0.00E+00 | 8.63E-04 | 9.81E-03 | 382014 | 3765540 |
| 0045 | 0.00E+00 | 9.70E-04 | 0.00E+00 | 9.70E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-04 | 1.10E-02 | 0.00E+00 | 9.70E-04 | 1.10E-02 | 382034 | 3765540 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0046 | 0.00E+00 | 6.74E-04 | 0.00E+00 | 6.74E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-04 | 7.63E-03 | 0.00E+00 | 6.74E-04 | 7.63E-03 | 382054 | 3765540 |
| 0047 | 0.00E+00 | 6.93E-04 | 0.00E+00 | 6.93E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-04 | 7.80E-03 | 0.00E+00 | 6.93E-04 | 7.80E-03 | 382074 | 3765540 |
| 0048 | 0.00E+00 | 6.73E-04 | 0.00E+00 | 6.73E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-04 | 7.63E-03 | 0.00E+00 | 6.73E-04 | 7.63E-03 | 382094 | 3765540 |
| 0049 | 0.00E+00 | 6.93E-04 | 0.00E+00 | 6.93E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-04 | 7.85E-03 | 0.00E+00 | 6.93E-04 | 7.85E-03 | 382114 | 3765540 |
| 0050 | 0.00E+00 | 7.11E-04 | 0.00E+00 | 7.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-04 | 8.05E-03 | 0.00E+00 | 7.11E-04 | 8.05E-03 | 382134 | 3765540 |
| 0051 | 0.00E+00 | 8.40E-04 | 0.00E+00 | 8.40E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E-04 | 9.57E-03 | 0.00E+00 | 8.40E-04 | 9.57E-03 | 381954 | 3765560 |
| 0052 | 0.00E+00 | 9.44E-04 | 0.00E+00 | 9.44E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-04 | 1.07E-02 | 0.00E+00 | 9.44E-04 | 1.07E-02 | 381974 | 3765560 |
| 0053 | 0.00E+00 | 7.48E-04 | 0.00E+00 | 7.48E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E-04 | 8.50E-03 | 0.00E+00 | 7.48E-04 | 8.50E-03 | 381994 | 3765560 |
| 0054 | 0.00E+00 | 8.22E-04 | 0.00E+00 | 8.22E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-04 | 9.35E-03 | 0.00E+00 | 8.22E-04 | 9.35E-03 | 382014 | 3765560 |
| 0055 | 0.00E+00 | 9.18E-04 | 0.00E+00 | 9.18E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.88E-04 | 1.04E-02 | 0.00E+00 | 9.18E-04 | 1.04E-02 | 382034 | 3765560 |
| 0056 | 0.00E+00 | 6.55E-04 | 0.00E+00 | 6.55E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-04 | 7.42E-03 | 0.00E+00 | 6.55E-04 | 7.42E-03 | 382054 | 3765560 |
| 0057 | 0.00E+00 | 7.03E-04 | 0.00E+00 | 7.03E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E-04 | 7.94E-03 | 0.00E+00 | 7.03E-04 | 7.94E-03 | 382074 | 3765560 |
| 0058 | 0.00E+00 | 7.32E-04 | 0.00E+00 | 7.32E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.50E-04 | 8.24E-03 | 0.00E+00 | 7.32E-04 | 8.24E-03 | 382094 | 3765560 |
| 0059 | 0.00E+00 | 7.17E-04 | 0.00E+00 | 7.17E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-04 | 8.13E-03 | 0.00E+00 | 7.17E-04 | 8.13E-03 | 382114 | 3765560 |
| 0060 | 0.00E+00 | 7.58E-04 | 0.00E+00 | 7.58E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-04 | 8.58E-03 | 0.00E+00 | 7.58E-04 | 8.58E-03 | 382134 | 3765560 |
| 0061 | 0.00E+00 | 8.04E-04 | 0.00E+00 | 8.04E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-04 | 9.16E-03 | 0.00E+00 | 8.04E-04 | 9.16E-03 | 381954 | 3765580 |
| 0062 | 0.00E+00 | 8.98E-04 | 0.00E+00 | 8.98E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-04 | 1.02E-02 | 0.00E+00 | 8.98E-04 | 1.02E-02 | 381974 | 3765580 |
| 0063 | 0.00E+00 | 1.02E-03 | 0.00E+00 | 1.02E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E-04 | 1.16E-02 | 0.00E+00 | 1.02E-03 | 1.16E-02 | 381994 | 3765580 |
| 0064 | 0.00E+00 | 7.84E-04 | 0.00E+00 | 7.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-04 | 8.92E-03 | 0.00E+00 | 7.84E-04 | 8.92E-03 | 382014 | 3765580 |
| 0065 | 0.00E+00 | 8.68E-04 | 0.00E+00 | 8.68E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-04 | 9.87E-03 | 0.00E+00 | 8.68E-04 | 9.87E-03 | 382034 | 3765580 |
| 0066 | 0.00E+00 | 9.73E-04 | 0.00E+00 | 9.73E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-04 | 1.11E-02 | 0.00E+00 | 9.73E-04 | 1.11E-02 | 382054 | 3765580 |
| 0067 | 0.00E+00 | 6.93E-04 | 0.00E+00 | 6.93E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-04 | 7.84E-03 | 0.00E+00 | 6.93E-04 | 7.84E-03 | 382074 | 3765580 |
| 0068 | 0.00E+00 | 7.53E-04 | 0.00E+00 | 7.53E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E-04 | 8.51E-03 | 0.00E+00 | 7.53E-04 | 8.51E-03 | 382094 | 3765580 |
| 0069 | 0.00E+00 | 7.89E-04 | 0.00E+00 | 7.89E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-04 | 8.87E-03 | 0.00E+00 | 7.89E-04 | 8.87E-03 | 382114 | 3765580 |
| 0070 | 0.00E+00 | 7.86E-04 | 0.00E+00 | 7.86E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-04 | 8.88E-03 | 0.00E+00 | 7.86E-04 | 8.88E-03 | 382134 | 3765580 |
| 0071 | 0.00E+00 | 7.68E-04 | 0.00E+00 | 7.68E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-04 | 8.75E-03 | 0.00E+00 | 7.68E-04 | 8.75E-03 | 381954 | 3765600 |
| 0072 | 0.00E+00 | 8.51E-04 | 0.00E+00 | 8.51E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-04 | 9.69E-03 | 0.00E+00 | 8.51E-04 | 9.69E-03 | 381974 | 3765600 |
| 0073 | 0.00E+00 | 9.53E-04 | 0.00E+00 | 9.53E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.95E-04 | 1.09E-02 | 0.00E+00 | 9.53E-04 | 1.09E-02 | 381994 | 3765600 |
| 0074 | 0.00E+00 | 1.08E-03 | 0.00E+00 | 1.08E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.21E-04 | 1.23E-02 | 0.00E+00 | 1.08E-03 | 1.23E-02 | 382014 | 3765600 |
| 0075 | 0.00E+00 | 8.26E-04 | 0.00E+00 | 8.26E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-04 | 9.39E-03 | 0.00E+00 | 8.26E-04 | 9.39E-03 | 382034 | 3765600 |
| 0076 | 0.00E+00 | 9.15E-04 | 0.00E+00 | 9.15E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-04 | 1.04E-02 | 0.00E+00 | 9.15E-04 | 1.04E-02 | 382054 | 3765600 |
| 0077 | 0.00E+00 | 1.02E-03 | 0.00E+00 | 1.02E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E-04 | 1.16E-02 | 0.00E+00 | 1.02E-03 | 1.16E-02 | 382074 | 3765600 |
| 0078 | 0.00E+00 | 7.64E-04 | 0.00E+00 | 7.64E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-04 | 8.65E-03 | 0.00E+00 | 7.64E-04 | 8.65E-03 | 382094 | 3765600 |
| 0079 | 0.00E+00 | 8.07E-04 | 0.00E+00 | 8.07E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-04 | 9.09E-03 | 0.00E+00 | 8.07E-04 | 9.09E-03 | 382114 | 3765600 |
| 0080 | 0.00E+00 | 8.11E-04 | 0.00E+00 | 8.11E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.66E-04 | 9.20E-03 | 0.00E+00 | 8.11E-04 | 9.20E-03 | 382134 | 3765600 |
| 0081 | 0.00E+00 | 7.33E-04 | 0.00E+00 | 7.33E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.50E-04 | 8.35E-03 | 0.00E+00 | 7.33E-04 | 8.35E-03 | 381954 | 3765620 |
| 0082 | 0.00E+00 | 8.06E-04 | 0.00E+00 | 8.06E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-04 | 9.18E-03 | 0.00E+00 | 8.06E-04 | 9.18E-03 | 381974 | 3765620 |
| 0083 | 0.00E+00 | 8.93E-04 | 0.00E+00 | 8.93E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-04 | 1.02E-02 | 0.00E+00 | 8.93E-04 | 1.02E-02 | 381994 | 3765620 |
| 0084 | 0.00E+00 | 9.99E-04 | 0.00E+00 | 9.99E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-04 | 1.14E-02 | 0.00E+00 | 9.99E-04 | 1.14E-02 | 382014 | 3765620 |
| 0085 | 0.00E+00 | 1.12E-03 | 0.00E+00 | 1.12E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-04 | 1.28E-02 | 0.00E+00 | 1.12E-03 | 1.28E-02 | 382034 | 3765620 |
| 0086 | 0.00E+00 | 8.73E-04 | 0.00E+00 | 8.73E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-04 | 9.92E-03 | 0.00E+00 | 8.73E-04 | 9.92E-03 | 382054 | 3765620 |
| 0087 | 0.00E+00 | 9.69E-04 | 0.00E+00 | 9.69E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-04 | 1.10E-02 | 0.00E+00 | 9.69E-04 | 1.10E-02 | 382074 | 3765620 |
| 0088 | 0.00E+00 | 1.09E-03 | 0.00E+00 | 1.09E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.22E-04 | 1.23E-02 | 0.00E+00 | 1.09E-03 | 1.23E-02 | 382094 | 3765620 |
| 0089 | 0.00E+00 | 1.18E-03 | 0.00E+00 | 1.18E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.42E-04 | 1.34E-02 | 0.00E+00 | 1.18E-03 | 1.34E-02 | 382114 | 3765620 |
| 0090 | 0.00E+00 | 8.71E-04 | 0.00E+00 | 8.71E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-04 | 9.89E-03 | 0.00E+00 | 8.71E-04 | 9.89E-03 | 382134 | 3765620 |
| 0091 | 0.00E+00 | 7.01E-04 | 0.00E+00 | 7.01E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-04 | 7.98E-03 | 0.00E+00 | 7.01E-04 | 7.98E-03 | 381954 | 3765640 |
| 0092 | 0.00E+00 | 7.65E-04 | 0.00E+00 | 7.65E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-04 | 8.72E-03 | 0.00E+00 | 7.65E-04 | 8.72E-03 | 381974 | 3765640 |
| 0093 | 0.00E+00 | 8.41E-04 | 0.00E+00 | 8.41E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E-04 | 9.58E-03 | 0.00E+00 | 8.41E-04 | 9.58E-03 | 381994 | 3765640 |
| 0094 | 0.00E+00 | 9.29E-04 | 0.00E+00 | 9.29E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-04 | 1.06E-02 | 0.00E+00 | 9.29E-04 | 1.06E-02 | 382014 | 3765640 |
| 0095 | 0.00E+00 | 1.03E-03 | 0.00E+00 | 1.03E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.11E-04 | 1.18E-02 | 0.00E+00 | 1.03E-03 | 1.18E-02 | 382034 | 3765640 |
| 0096 | 0.00E+00 | 1.15E-03 | 0.00E+00 | 1.15E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-04 | 1.31E-02 | 0.00E+00 | 1.15E-03 | 1.31E-02 | 382054 | 3765640 |
| 0097 | 0.00E+00 | 1.28E-03 | 0.00E+00 | 1.28E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-04 | 1.46E-02 | 0.00E+00 | 1.28E-03 | 1.46E-02 | 382074 | 3765640 |
| 0098 | 0.00E+00 | 1.04E-03 | 0.00E+00 | 1.04E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-04 | 1.19E-02 | 0.00E+00 | 1.04E-03 | 1.19E-02 | 382094 | 3765640 |

Chronic

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0099 | 0.00E+00 | 1.15E-03 | 0.00E+00 | 1.15E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.35E-04 | 1.30E-02 | 0.00E+00 | 1.15E-03 | 1.30E-02 | 382114 | 3765640 |
| 0100 | 0.00E+00 | 1.30E-03 | 0.00E+00 | 1.30E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-04 | 1.47E-02 | 0.00E+00 | 1.30E-03 | 1.47E-02 | 382134 | 3765640 |
| 0101 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-04 | 7.82E-03 | 0.00E+00 | 6.91E-04 | 7.82E-03 | 382071 | 3765565 |
| 0102 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-04 | 7.82E-03 | 0.00E+00 | 6.91E-04 | 7.82E-03 | 382071 | 3765565 |
| 0103 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-04 | 7.82E-03 | 0.00E+00 | 6.91E-04 | 7.82E-03 | 382071 | 3765565 |
| 0104 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-04 | 7.82E-03 | 0.00E+00 | 6.91E-04 | 7.82E-03 | 382071 | 3765565 |
| 0105 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-04 | 7.82E-03 | 0.00E+00 | 6.91E-04 | 7.82E-03 | 382071 | 3765565 |
| 0106 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-04 | 7.82E-03 | 0.00E+00 | 6.91E-04 | 7.82E-03 | 382071 | 3765565 |
| 0107 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 6.91E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-04 | 7.82E-03 | 0.00E+00 | 6.91E-04 | 7.82E-03 | 382071 | 3765565 |
| 0108 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 7.71E-03 | 0.00E+00 | 6.81E-04 | 7.71E-03 | 382051 | 3765530 |
| 0109 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 7.71E-03 | 0.00E+00 | 6.81E-04 | 7.71E-03 | 382051 | 3765530 |
| 0110 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 7.71E-03 | 0.00E+00 | 6.81E-04 | 7.71E-03 | 382051 | 3765530 |
| 0111 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 7.71E-03 | 0.00E+00 | 6.81E-04 | 7.71E-03 | 382051 | 3765530 |
| 0112 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 7.71E-03 | 0.00E+00 | 6.81E-04 | 7.71E-03 | 382051 | 3765530 |
| 0113 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 7.71E-03 | 0.00E+00 | 6.81E-04 | 7.71E-03 | 382051 | 3765530 |
| 0114 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 6.81E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 7.71E-03 | 0.00E+00 | 6.81E-04 | 7.71E-03 | 382051 | 3765530 |

This file: c:\HARP\projects\demo\Rep_Acu_AllRec_AllSrc_AllCh_ByRec_UTM.txt

Created by HARP Version 1.4f Build 23.11.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 11/7/2016 10:41:38 AM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: USC.EMS
Site parameters file: c:\HARP\projects\demo\project.sit

Screening mode is OFF

Analysis method: Point Estimate
Health effect: Acute HI Simple (Concurrent Max.)
Receptor(s): All
Sources(s): All
Chemicals(s): All

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

| CHEM | CAS | ABBREVIATION | POLLUTANT NAME | BACKGROUND (ug/m^3) |
|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 1,3-Butadiene | 0.000E+00 |
| 0002 | 75070 | Acetaldehyde | Acetaldehyde | 0.000E+00 |
| 0003 | 107028 | Acrolein | Acrolein | 0.000E+00 |
| 0004 | 71432 | Benzene | Benzene | 0.000E+00 |
| 0005 | 9901 | DieselExhPM | Diesel engine exhaust, particulate matter (Diesel PM) | 0.000E+00 |
| 0006 | 50000 | Formaldehyde | Formaldehyde | 0.000E+00 |

CHEMICAL HEALTH VALUES

| CHEM | CAS | ABBREVIATION | CancerPF(Inh) (mg/kg-d)^-1 | CancerPF(Oral) (mg/kg-d)^-1 | ChronicREL(Inh) ug/m^3 | ChronicREL(Oral) mg/kg-d | AcuteREL ug/m^3 |
|---|---|---|---|---|---|---|---|
| 0001 | 106990 | 1,3-Butadiene | 6.00E-01 | * | 2.00E+01 | * | * |
| 0002 | 75070 | Acetaldehyde | 1.00E-02 | * | 1.40E+02 | * | 4.70E+02 |
| 0003 | 107028 | Acrolein | * | * | 3.50E-01 | * | 2.50E+00 |
| 0004 | 71432 | Benzene | 1.00E-01 | * | 6.00E+01 | * | 1.30E+03 |
| 0005 | 9901 | DieselExhPM | 1.10E+00 | * | 5.00E+00 | * | * |
| 0006 | 50000 | Formaldehyde | 2.10E-02 | * | 9.00E+00 | * | 5.50E+01 |

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\Users\jfong\Desktop\USC STUDENT HOUSING HRA\hra\USC.EMS
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=1001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |

| | | | | | |
|---|---|---|---|---|---|
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=1002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=3 NAME=1003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=4 NAME=1004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=5 NAME=1005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=6 NAME=1006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |

| | | | | | |
|---|---|---|---|---|---|
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=7 NAME=1007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=8 NAME=1008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=9 NAME=1009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=10 NAME=1010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=11 NAME=1011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=12 NAME=1012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=13 NAME=1013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=14 NAME=1014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.94E+00 | 2.21E-04 |
| 75070 | Acetaldehyde | 1 | 0 | 8.27E+00 | 9.44E-04 |
| 107028 | Acrolein | 1 | 0 | 4.94E-01 | 5.63E-05 |
| 71432 | Benzene | 1 | 0 | 2.85E+01 | 3.25E-03 |
| 9901 | DieselExhPM | 1 | 0 | 1.22E+01 | 1.39E-03 |
| 50000 | Formaldehyde | 1 | 0 | 1.37E+01 | 1.56E-03 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=15 NAME=3001 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=16 NAME=3002 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=17 NAME=3003 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=18 NAME=3004 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=19 NAME=3005 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=20 NAME=3006 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=21 NAME=3007 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 3.62E-02 | 4.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 1.56E-01 | 1.78E-05 |
| 107028 | Acrolein | 1 | 0 | 9.21E-03 | 1.05E-06 |
| 71432 | Benzene | 1 | 0 | 5.32E-01 | 6.07E-05 |
| 9901 | DieselExhPM | 1 | 0 | 2.46E-01 | 2.80E-05 |
| 50000 | Formaldehyde | 1 | 0 | 2.59E-01 | 2.95E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=22 NAME=3008 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |

| | | | | | |
|---|---|---|---|---|---|
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=23 NAME=3009 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 8.01E-02 | 9.14E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.44E-01 | 3.93E-05 |
| 107028 | Acrolein | 1 | 0 | 2.04E-02 | 2.32E-06 |
| 71432 | Benzene | 1 | 0 | 1.18E+00 | 1.34E-04 |
| 9901 | DieselExhPM | 1 | 0 | 5.43E-01 | 6.20E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.72E-01 | 6.53E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=24 NAME=3010 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 1.95E-01 | 2.23E-05 |
| 75070 | Acetaldehyde | 1 | 0 | 8.72E-01 | 9.96E-05 |
| 107028 | Acrolein | 1 | 0 | 4.87E-02 | 5.56E-06 |
| 71432 | Benzene | 1 | 0 | 2.83E+00 | 3.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 8.18E-01 | 9.34E-05 |
| 50000 | Formaldehyde | 1 | 0 | 1.49E+00 | 1.70E-04 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=25 NAME=3011 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=26 NAME=3012 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=27 NAME=3013 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=28 NAME=3014 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=29 NAME=3015 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=30 NAME=3016 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=31 NAME=3017 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=32 NAME=3018 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=33 NAME=3019 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | Acute MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=34 NAME=3020 EMS (lbs/yr)
SOURCE MULTIPLIER=1

| CAS | ABBREV | MULTIPLIER | BG (ug/m^3) | AVRG (lbs/yr) | MAX (lbs/hr) |
|---|---|---|---|---|---|
| 106990 | 1,3-Butadiene | 1 | 0 | 7.38E-02 | 8.43E-06 |
| 75070 | Acetaldehyde | 1 | 0 | 3.30E-01 | 3.77E-05 |
| 107028 | Acrolein | 1 | 0 | 1.85E-02 | 2.11E-06 |
| 71432 | Benzene | 1 | 0 | 1.07E+00 | 1.22E-04 |
| 9901 | DieselExhPM | 1 | 0 | 3.10E-01 | 3.54E-05 |
| 50000 | Formaldehyde | 1 | 0 | 5.63E-01 | 6.43E-05 |

ACUTE HI REPORT

| REC | CV | CNS | BONE | DEVEL | ENDO | EYE | GILV | IMMUN | KIDN | REPRO | RESP | SKIN | BLOOD | MAX | UTME | UTMN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-04 | 0.00E+00 | 3.55E-03 | 0.00E+00 | 1.68E-04 | 0.00E+00 | 1.68E-04 | 1.64E-03 | 0.00E+00 | 1.68E-04 | 3.55E-03 | 381954 | 3765460 |
| 0002 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.82E-04 | 0.00E+00 | 3.86E-03 | 0.00E+00 | 1.82E-04 | 0.00E+00 | 1.82E-04 | 1.79E-03 | 0.00E+00 | 1.82E-04 | 3.86E-03 | 381974 | 3765460 |
| 0003 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.96E-04 | 0.00E+00 | 4.16E-03 | 0.00E+00 | 1.96E-04 | 0.00E+00 | 1.96E-04 | 1.93E-03 | 0.00E+00 | 1.96E-04 | 4.16E-03 | 381994 | 3765460 |
| 0004 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-04 | 0.00E+00 | 3.49E-03 | 0.00E+00 | 1.64E-04 | 0.00E+00 | 1.64E-04 | 1.61E-03 | 0.00E+00 | 1.64E-04 | 3.49E-03 | 382014 | 3765460 |
| 0005 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-04 | 0.00E+00 | 3.71E-03 | 0.00E+00 | 1.75E-04 | 0.00E+00 | 1.75E-04 | 1.71E-03 | 0.00E+00 | 1.75E-04 | 3.71E-03 | 382034 | 3765460 |
| 0006 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-04 | 0.00E+00 | 2.75E-03 | 0.00E+00 | 1.29E-04 | 0.00E+00 | 1.29E-04 | 1.27E-03 | 0.00E+00 | 1.29E-04 | 2.75E-03 | 382054 | 3765460 |
| 0007 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E-04 | 0.00E+00 | 2.52E-03 | 0.00E+00 | 1.18E-04 | 0.00E+00 | 1.18E-04 | 1.16E-03 | 0.00E+00 | 1.18E-04 | 2.52E-03 | 382074 | 3765460 |
| 0008 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.17E-04 | 0.00E+00 | 2.49E-03 | 0.00E+00 | 1.17E-04 | 0.00E+00 | 1.17E-04 | 1.15E-03 | 0.00E+00 | 1.17E-04 | 2.49E-03 | 382094 | 3765460 |
| 0009 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.19E-04 | 0.00E+00 | 2.53E-03 | 0.00E+00 | 1.19E-04 | 0.00E+00 | 1.19E-04 | 1.17E-03 | 0.00E+00 | 1.19E-04 | 2.53E-03 | 382114 | 3765460 |
| 0010 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-04 | 0.00E+00 | 2.43E-03 | 0.00E+00 | 1.14E-04 | 0.00E+00 | 1.14E-04 | 1.12E-03 | 0.00E+00 | 1.14E-04 | 2.43E-03 | 382134 | 3765460 |
| 0011 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-04 | 0.00E+00 | 3.44E-03 | 0.00E+00 | 1.62E-04 | 0.00E+00 | 1.62E-04 | 1.59E-03 | 0.00E+00 | 1.62E-04 | 3.44E-03 | 381954 | 3765480 |
| 0012 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-04 | 0.00E+00 | 3.75E-03 | 0.00E+00 | 1.77E-04 | 0.00E+00 | 1.77E-04 | 1.73E-03 | 0.00E+00 | 1.77E-04 | 3.75E-03 | 381974 | 3765480 |
| 0013 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-04 | 0.00E+00 | 4.10E-03 | 0.00E+00 | 1.93E-04 | 0.00E+00 | 1.93E-04 | 1.89E-03 | 0.00E+00 | 1.93E-04 | 4.10E-03 | 381994 | 3765480 |
| 0014 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.57E-04 | 0.00E+00 | 3.34E-03 | 0.00E+00 | 1.57E-04 | 0.00E+00 | 1.57E-04 | 1.54E-03 | 0.00E+00 | 1.57E-04 | 3.34E-03 | 382014 | 3765480 |
| 0015 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-04 | 0.00E+00 | 2.58E-03 | 0.00E+00 | 1.21E-04 | 0.00E+00 | 1.21E-04 | 1.19E-03 | 0.00E+00 | 1.21E-04 | 2.58E-03 | 382034 | 3765480 |
| 0016 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-04 | 0.00E+00 | 2.66E-03 | 0.00E+00 | 1.25E-04 | 0.00E+00 | 1.25E-04 | 1.22E-03 | 0.00E+00 | 1.25E-04 | 2.66E-03 | 382054 | 3765480 |
| 0017 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.19E-04 | 0.00E+00 | 2.53E-03 | 0.00E+00 | 1.19E-04 | 0.00E+00 | 1.19E-04 | 1.17E-03 | 0.00E+00 | 1.19E-04 | 2.53E-03 | 382074 | 3765480 |
| 0018 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-04 | 0.00E+00 | 2.38E-03 | 0.00E+00 | 1.12E-04 | 0.00E+00 | 1.12E-04 | 1.10E-03 | 0.00E+00 | 1.12E-04 | 2.38E-03 | 382094 | 3765480 |
| 0019 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 2.37E-03 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 1.11E-04 | 1.09E-03 | 0.00E+00 | 1.11E-04 | 2.37E-03 | 382114 | 3765480 |
| 0020 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-04 | 0.00E+00 | 2.29E-03 | 0.00E+00 | 1.07E-04 | 0.00E+00 | 1.07E-04 | 1.05E-03 | 0.00E+00 | 1.07E-04 | 2.29E-03 | 382134 | 3765480 |
| 0021 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-04 | 0.00E+00 | 3.29E-03 | 0.00E+00 | 1.55E-04 | 0.00E+00 | 1.55E-04 | 1.52E-03 | 0.00E+00 | 1.55E-04 | 3.29E-03 | 381954 | 3765500 |
| 0022 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E-04 | 0.00E+00 | 3.60E-03 | 0.00E+00 | 1.70E-04 | 0.00E+00 | 1.70E-04 | 1.66E-03 | 0.00E+00 | 1.70E-04 | 3.60E-03 | 381974 | 3765500 |
| 0023 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E-04 | 0.00E+00 | 2.92E-03 | 0.00E+00 | 1.37E-04 | 0.00E+00 | 1.37E-04 | 1.35E-03 | 0.00E+00 | 1.37E-04 | 2.92E-03 | 381994 | 3765500 |
| 0024 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-04 | 0.00E+00 | 3.15E-03 | 0.00E+00 | 1.48E-04 | 0.00E+00 | 1.48E-04 | 1.46E-03 | 0.00E+00 | 1.48E-04 | 3.15E-03 | 382014 | 3765500 |
| 0025 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-04 | 0.00E+00 | 2.44E-03 | 0.00E+00 | 1.15E-04 | 0.00E+00 | 1.15E-04 | 1.13E-03 | 0.00E+00 | 1.15E-04 | 2.44E-03 | 382034 | 3765500 |
| 0026 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E-04 | 0.00E+00 | 2.52E-03 | 0.00E+00 | 1.18E-04 | 0.00E+00 | 1.18E-04 | 1.16E-03 | 0.00E+00 | 1.18E-04 | 2.52E-03 | 382054 | 3765500 |
| 0027 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-04 | 0.00E+00 | 2.48E-03 | 0.00E+00 | 1.16E-04 | 0.00E+00 | 1.16E-04 | 1.14E-03 | 0.00E+00 | 1.16E-04 | 2.48E-03 | 382074 | 3765500 |
| 0028 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-04 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 1.08E-04 | 0.00E+00 | 1.08E-04 | 1.06E-03 | 0.00E+00 | 1.08E-04 | 2.31E-03 | 382094 | 3765500 |
| 0029 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-04 | 0.00E+00 | 2.20E-03 | 0.00E+00 | 1.03E-04 | 0.00E+00 | 1.03E-04 | 1.01E-03 | 0.00E+00 | 1.03E-04 | 2.20E-03 | 382114 | 3765500 |
| 0030 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-04 | 0.00E+00 | 2.17E-03 | 0.00E+00 | 1.02E-04 | 0.00E+00 | 1.02E-04 | 1.00E-03 | 0.00E+00 | 1.02E-04 | 2.17E-03 | 382134 | 3765500 |
| 0031 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-04 | 0.00E+00 | 3.08E-03 | 0.00E+00 | 1.45E-04 | 0.00E+00 | 1.45E-04 | 1.42E-03 | 0.00E+00 | 1.45E-04 | 3.08E-03 | 381954 | 3765520 |
| 0032 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.59E-04 | 0.00E+00 | 3.37E-03 | 0.00E+00 | 1.59E-04 | 0.00E+00 | 1.59E-04 | 1.56E-03 | 0.00E+00 | 1.59E-04 | 3.37E-03 | 381974 | 3765520 |
| 0033 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-04 | 0.00E+00 | 2.71E-03 | 0.00E+00 | 1.27E-04 | 0.00E+00 | 1.27E-04 | 1.25E-03 | 0.00E+00 | 1.27E-04 | 2.71E-03 | 381994 | 3765520 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0034 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-04 | 0.00E+00 | 2.93E-03 | 0.00E+00 | 1.38E-04 | 0.00E+00 | 1.38E-04 | 1.35E-03 | 0.00E+00 | 1.38E-04 | 2.93E-03 | 382014 | 3765520 |
| 0035 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-04 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 1.09E-04 | 0.00E+00 | 1.09E-04 | 1.07E-03 | 0.00E+00 | 1.09E-04 | 2.31E-03 | 382034 | 3765520 |
| 0036 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.13E-04 | 0.00E+00 | 2.41E-03 | 0.00E+00 | 1.13E-04 | 0.00E+00 | 1.13E-04 | 1.11E-03 | 0.00E+00 | 1.13E-04 | 2.41E-03 | 382054 | 3765520 |
| 0037 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-04 | 0.00E+00 | 2.39E-03 | 0.00E+00 | 1.12E-04 | 0.00E+00 | 1.12E-04 | 1.10E-03 | 0.00E+00 | 1.12E-04 | 2.39E-03 | 382074 | 3765520 |
| 0038 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-04 | 0.00E+00 | 2.24E-03 | 0.00E+00 | 1.05E-04 | 0.00E+00 | 1.05E-04 | 1.03E-03 | 0.00E+00 | 1.05E-04 | 2.24E-03 | 382094 | 3765520 |
| 0039 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-04 | 0.00E+00 | 2.17E-03 | 0.00E+00 | 1.02E-04 | 0.00E+00 | 1.02E-04 | 1.00E-03 | 0.00E+00 | 1.02E-04 | 2.17E-03 | 382114 | 3765520 |
| 0040 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-04 | 0.00E+00 | 2.14E-03 | 0.00E+00 | 1.01E-04 | 0.00E+00 | 1.01E-04 | 9.87E-04 | 0.00E+00 | 1.01E-04 | 2.14E-03 | 382134 | 3765520 |
| 0041 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-04 | 0.00E+00 | 2.83E-03 | 0.00E+00 | 1.34E-04 | 0.00E+00 | 1.34E-04 | 1.31E-03 | 0.00E+00 | 1.34E-04 | 2.83E-03 | 381954 | 3765540 |
| 0042 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-04 | 0.00E+00 | 3.12E-03 | 0.00E+00 | 1.47E-04 | 0.00E+00 | 1.47E-04 | 1.44E-03 | 0.00E+00 | 1.47E-04 | 3.12E-03 | 381974 | 3765540 |
| 0043 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-04 | 0.00E+00 | 2.54E-03 | 0.00E+00 | 1.20E-04 | 0.00E+00 | 1.20E-04 | 1.18E-03 | 0.00E+00 | 1.20E-04 | 2.54E-03 | 381994 | 3765540 |
| 0044 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-04 | 0.00E+00 | 2.79E-03 | 0.00E+00 | 1.31E-04 | 0.00E+00 | 1.31E-04 | 1.29E-03 | 0.00E+00 | 1.31E-04 | 2.79E-03 | 382014 | 3765540 |
| 0045 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-04 | 0.00E+00 | 3.10E-03 | 0.00E+00 | 1.46E-04 | 0.00E+00 | 1.46E-04 | 1.43E-03 | 0.00E+00 | 1.46E-04 | 3.10E-03 | 382034 | 3765540 |
| 0046 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-04 | 0.00E+00 | 2.32E-03 | 0.00E+00 | 1.09E-04 | 0.00E+00 | 1.09E-04 | 1.07E-03 | 0.00E+00 | 1.09E-04 | 2.32E-03 | 382054 | 3765540 |
| 0047 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 2.34E-03 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 1.10E-04 | 1.08E-03 | 0.00E+00 | 1.10E-04 | 2.34E-03 | 382074 | 3765540 |
| 0048 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-04 | 0.00E+00 | 2.24E-03 | 0.00E+00 | 1.05E-04 | 0.00E+00 | 1.05E-04 | 1.03E-03 | 0.00E+00 | 1.05E-04 | 2.24E-03 | 382094 | 3765540 |
| 0049 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-04 | 0.00E+00 | 2.22E-03 | 0.00E+00 | 1.04E-04 | 0.00E+00 | 1.04E-04 | 1.02E-03 | 0.00E+00 | 1.04E-04 | 2.22E-03 | 382114 | 3765540 |
| 0050 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-04 | 0.00E+00 | 2.19E-03 | 0.00E+00 | 1.03E-04 | 0.00E+00 | 1.03E-04 | 1.01E-03 | 0.00E+00 | 1.03E-04 | 2.19E-03 | 382134 | 3765540 |
| 0051 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-04 | 0.00E+00 | 2.66E-03 | 0.00E+00 | 1.25E-04 | 0.00E+00 | 1.25E-04 | 1.23E-03 | 0.00E+00 | 1.25E-04 | 2.66E-03 | 381954 | 3765560 |
| 0052 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 0.00E+00 | 2.95E-03 | 0.00E+00 | 1.39E-04 | 0.00E+00 | 1.39E-04 | 1.36E-03 | 0.00E+00 | 1.39E-04 | 2.95E-03 | 381974 | 3765560 |
| 0053 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-04 | 0.00E+00 | 2.45E-03 | 0.00E+00 | 1.15E-04 | 0.00E+00 | 1.15E-04 | 1.13E-03 | 0.00E+00 | 1.15E-04 | 2.45E-03 | 381994 | 3765560 |
| 0054 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-04 | 0.00E+00 | 2.68E-03 | 0.00E+00 | 1.26E-04 | 0.00E+00 | 1.26E-04 | 1.24E-03 | 0.00E+00 | 1.26E-04 | 2.68E-03 | 382014 | 3765560 |
| 0055 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-04 | 0.00E+00 | 2.97E-03 | 0.00E+00 | 1.40E-04 | 0.00E+00 | 1.40E-04 | 1.37E-03 | 0.00E+00 | 1.40E-04 | 2.97E-03 | 382034 | 3765560 |
| 0056 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-04 | 0.00E+00 | 2.28E-03 | 0.00E+00 | 1.07E-04 | 0.00E+00 | 1.07E-04 | 1.05E-03 | 0.00E+00 | 1.07E-04 | 2.28E-03 | 382054 | 3765560 |
| 0057 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-04 | 0.00E+00 | 2.38E-03 | 0.00E+00 | 1.12E-04 | 0.00E+00 | 1.12E-04 | 1.10E-03 | 0.00E+00 | 1.12E-04 | 2.38E-03 | 382074 | 3765560 |
| 0058 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.13E-04 | 0.00E+00 | 2.42E-03 | 0.00E+00 | 1.13E-04 | 0.00E+00 | 1.13E-04 | 1.11E-03 | 0.00E+00 | 1.13E-04 | 2.42E-03 | 382094 | 3765560 |
| 0059 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-04 | 0.00E+00 | 2.31E-03 | 0.00E+00 | 1.09E-04 | 0.00E+00 | 1.09E-04 | 1.07E-03 | 0.00E+00 | 1.09E-04 | 2.31E-03 | 382114 | 3765560 |
| 0060 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 2.34E-03 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 1.10E-04 | 1.08E-03 | 0.00E+00 | 1.10E-04 | 2.34E-03 | 382134 | 3765560 |
| 0061 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-04 | 0.00E+00 | 2.62E-03 | 0.00E+00 | 1.24E-04 | 0.00E+00 | 1.24E-04 | 1.21E-03 | 0.00E+00 | 1.24E-04 | 2.62E-03 | 381954 | 3765580 |
| 0062 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-04 | 0.00E+00 | 2.85E-03 | 0.00E+00 | 1.35E-04 | 0.00E+00 | 1.35E-04 | 1.32E-03 | 0.00E+00 | 1.35E-04 | 2.85E-03 | 381974 | 3765580 |
| 0063 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.50E-04 | 0.00E+00 | 3.18E-03 | 0.00E+00 | 1.50E-04 | 0.00E+00 | 1.50E-04 | 1.47E-03 | 0.00E+00 | 1.50E-04 | 3.18E-03 | 381994 | 3765580 |
| 0064 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-04 | 0.00E+00 | 2.59E-03 | 0.00E+00 | 1.22E-04 | 0.00E+00 | 1.22E-04 | 1.20E-03 | 0.00E+00 | 1.22E-04 | 2.59E-03 | 382014 | 3765580 |
| 0065 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.34E-04 | 0.00E+00 | 2.84E-03 | 0.00E+00 | 1.34E-04 | 0.00E+00 | 1.34E-04 | 1.31E-03 | 0.00E+00 | 1.34E-04 | 2.84E-03 | 382034 | 3765580 |
| 0066 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-04 | 0.00E+00 | 3.11E-03 | 0.00E+00 | 1.47E-04 | 0.00E+00 | 1.47E-04 | 1.44E-03 | 0.00E+00 | 1.47E-04 | 3.11E-03 | 382054 | 3765580 |
| 0067 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 2.36E-03 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 1.11E-04 | 1.09E-03 | 0.00E+00 | 1.11E-04 | 2.36E-03 | 382074 | 3765580 |
| 0068 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.17E-04 | 0.00E+00 | 2.48E-03 | 0.00E+00 | 1.17E-04 | 0.00E+00 | 1.17E-04 | 1.14E-03 | 0.00E+00 | 1.17E-04 | 2.48E-03 | 382094 | 3765580 |
| 0069 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E-04 | 0.00E+00 | 2.53E-03 | 0.00E+00 | 1.18E-04 | 0.00E+00 | 1.18E-04 | 1.16E-03 | 0.00E+00 | 1.18E-04 | 2.53E-03 | 382114 | 3765580 |
| 0070 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-04 | 0.00E+00 | 2.44E-03 | 0.00E+00 | 1.15E-04 | 0.00E+00 | 1.15E-04 | 1.13E-03 | 0.00E+00 | 1.15E-04 | 2.44E-03 | 382134 | 3765580 |
| 0071 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-04 | 0.00E+00 | 2.59E-03 | 0.00E+00 | 1.22E-04 | 0.00E+00 | 1.22E-04 | 1.20E-03 | 0.00E+00 | 1.22E-04 | 2.59E-03 | 381954 | 3765600 |
| 0072 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-04 | 0.00E+00 | 2.80E-03 | 0.00E+00 | 1.32E-04 | 0.00E+00 | 1.32E-04 | 1.29E-03 | 0.00E+00 | 1.32E-04 | 2.80E-03 | 381974 | 3765600 |
| 0073 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-04 | 0.00E+00 | 3.07E-03 | 0.00E+00 | 1.45E-04 | 0.00E+00 | 1.45E-04 | 1.42E-03 | 0.00E+00 | 1.45E-04 | 3.07E-03 | 381994 | 3765600 |
| 0074 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-04 | 0.00E+00 | 3.41E-03 | 0.00E+00 | 1.61E-04 | 0.00E+00 | 1.61E-04 | 1.58E-03 | 0.00E+00 | 1.61E-04 | 3.41E-03 | 382014 | 3765600 |
| 0075 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-04 | 0.00E+00 | 2.74E-03 | 0.00E+00 | 1.29E-04 | 0.00E+00 | 1.29E-04 | 1.27E-03 | 0.00E+00 | 1.29E-04 | 2.74E-03 | 382034 | 3765600 |
| 0076 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-04 | 0.00E+00 | 2.96E-03 | 0.00E+00 | 1.40E-04 | 0.00E+00 | 1.40E-04 | 1.37E-03 | 0.00E+00 | 1.40E-04 | 2.96E-03 | 382054 | 3765600 |
| 0077 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.52E-04 | 0.00E+00 | 3.23E-03 | 0.00E+00 | 1.52E-04 | 0.00E+00 | 1.52E-04 | 1.49E-03 | 0.00E+00 | 1.52E-04 | 3.23E-03 | 382074 | 3765600 |
| 0078 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E-04 | 0.00E+00 | 2.52E-03 | 0.00E+00 | 1.18E-04 | 0.00E+00 | 1.18E-04 | 1.16E-03 | 0.00E+00 | 1.18E-04 | 2.52E-03 | 382094 | 3765600 |
| 0079 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-04 | 0.00E+00 | 2.59E-03 | 0.00E+00 | 1.22E-04 | 0.00E+00 | 1.22E-04 | 1.19E-03 | 0.00E+00 | 1.22E-04 | 2.59E-03 | 382114 | 3765600 |
| 0080 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.19E-04 | 0.00E+00 | 2.53E-03 | 0.00E+00 | 1.19E-04 | 0.00E+00 | 1.19E-04 | 1.17E-03 | 0.00E+00 | 1.19E-04 | 2.53E-03 | 382134 | 3765600 |
| 0081 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.20E-04 | 0.00E+00 | 2.54E-03 | 0.00E+00 | 1.20E-04 | 0.00E+00 | 1.20E-04 | 1.18E-03 | 0.00E+00 | 1.20E-04 | 2.54E-03 | 381954 | 3765620 |
| 0082 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-04 | 0.00E+00 | 2.75E-03 | 0.00E+00 | 1.30E-04 | 0.00E+00 | 1.30E-04 | 1.27E-03 | 0.00E+00 | 1.30E-04 | 2.75E-03 | 381974 | 3765620 |
| 0083 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.41E-04 | 0.00E+00 | 2.99E-03 | 0.00E+00 | 1.41E-04 | 0.00E+00 | 1.41E-04 | 1.38E-03 | 0.00E+00 | 1.41E-04 | 2.99E-03 | 381994 | 3765620 |
| 0084 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E-04 | 0.00E+00 | 3.27E-03 | 0.00E+00 | 1.54E-04 | 0.00E+00 | 1.54E-04 | 1.51E-03 | 0.00E+00 | 1.54E-04 | 3.27E-03 | 382014 | 3765620 |
| 0085 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-04 | 0.00E+00 | 3.58E-03 | 0.00E+00 | 1.69E-04 | 0.00E+00 | 1.69E-04 | 1.66E-03 | 0.00E+00 | 1.69E-04 | 3.58E-03 | 382034 | 3765620 |
| 0086 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E-04 | 0.00E+00 | 2.89E-03 | 0.00E+00 | 1.36E-04 | 0.00E+00 | 1.36E-04 | 1.33E-03 | 0.00E+00 | 1.36E-04 | 2.89E-03 | 382054 | 3765620 |

Acute

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0087 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-04 | 0.00E+00 | 3.10E-03 | 0.00E+00 | 1.46E-04 | 0.00E+00 | 1.46E-04 | 1.43E-03 | 0.00E+00 | 1.46E-04 | 3.10E-03 | 382074 | 3765620 |
| 0088 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-04 | 0.00E+00 | 3.36E-03 | 0.00E+00 | 1.58E-04 | 0.00E+00 | 1.58E-04 | 1.55E-03 | 0.00E+00 | 1.58E-04 | 3.36E-03 | 382094 | 3765620 |
| 0089 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-04 | 0.00E+00 | 3.56E-03 | 0.00E+00 | 1.67E-04 | 0.00E+00 | 1.67E-04 | 1.64E-03 | 0.00E+00 | 1.67E-04 | 3.56E-03 | 382114 | 3765620 |
| 0090 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-04 | 0.00E+00 | 2.71E-03 | 0.00E+00 | 1.28E-04 | 0.00E+00 | 1.28E-04 | 1.25E-03 | 0.00E+00 | 1.28E-04 | 2.71E-03 | 382134 | 3765620 |
| 0091 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.19E-04 | 0.00E+00 | 2.53E-03 | 0.00E+00 | 1.19E-04 | 0.00E+00 | 1.19E-04 | 1.17E-03 | 0.00E+00 | 1.19E-04 | 2.53E-03 | 381954 | 3765640 |
| 0092 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E-04 | 0.00E+00 | 2.72E-03 | 0.00E+00 | 1.28E-04 | 0.00E+00 | 1.28E-04 | 1.26E-03 | 0.00E+00 | 1.28E-04 | 2.72E-03 | 381974 | 3765640 |
| 0093 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 0.00E+00 | 2.95E-03 | 0.00E+00 | 1.39E-04 | 0.00E+00 | 1.39E-04 | 1.36E-03 | 0.00E+00 | 1.39E-04 | 2.95E-03 | 381994 | 3765640 |
| 0094 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E-04 | 0.00E+00 | 3.16E-03 | 0.00E+00 | 1.49E-04 | 0.00E+00 | 1.49E-04 | 1.46E-03 | 0.00E+00 | 1.49E-04 | 3.16E-03 | 382014 | 3765640 |
| 0095 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.61E-04 | 0.00E+00 | 3.42E-03 | 0.00E+00 | 1.61E-04 | 0.00E+00 | 1.61E-04 | 1.58E-03 | 0.00E+00 | 1.61E-04 | 3.42E-03 | 382034 | 3765640 |
| 0096 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-04 | 0.00E+00 | 3.69E-03 | 0.00E+00 | 1.74E-04 | 0.00E+00 | 1.74E-04 | 1.71E-03 | 0.00E+00 | 1.74E-04 | 3.69E-03 | 382054 | 3765640 |
| 0097 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-04 | 0.00E+00 | 3.95E-03 | 0.00E+00 | 1.86E-04 | 0.00E+00 | 1.86E-04 | 1.83E-03 | 0.00E+00 | 1.86E-04 | 3.95E-03 | 382074 | 3765640 |
| 0098 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-04 | 0.00E+00 | 3.29E-03 | 0.00E+00 | 1.55E-04 | 0.00E+00 | 1.55E-04 | 1.52E-03 | 0.00E+00 | 1.55E-04 | 3.29E-03 | 382094 | 3765640 |
| 0099 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-04 | 0.00E+00 | 3.50E-03 | 0.00E+00 | 1.65E-04 | 0.00E+00 | 1.65E-04 | 1.62E-03 | 0.00E+00 | 1.65E-04 | 3.50E-03 | 382114 | 3765640 |
| 0100 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-04 | 0.00E+00 | 3.83E-03 | 0.00E+00 | 1.80E-04 | 0.00E+00 | 1.80E-04 | 1.77E-03 | 0.00E+00 | 1.80E-04 | 3.83E-03 | 382134 | 3765640 |
| 0101 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 2.36E-03 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 1.11E-04 | 1.09E-03 | 0.00E+00 | 1.11E-04 | 2.36E-03 | 382071 | 3765565 |
| 0102 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 2.36E-03 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 1.11E-04 | 1.09E-03 | 0.00E+00 | 1.11E-04 | 2.36E-03 | 382071 | 3765565 |
| 0103 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 2.36E-03 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 1.11E-04 | 1.09E-03 | 0.00E+00 | 1.11E-04 | 2.36E-03 | 382071 | 3765565 |
| 0104 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 2.36E-03 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 1.11E-04 | 1.09E-03 | 0.00E+00 | 1.11E-04 | 2.36E-03 | 382071 | 3765565 |
| 0105 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 2.36E-03 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 1.11E-04 | 1.09E-03 | 0.00E+00 | 1.11E-04 | 2.36E-03 | 382071 | 3765565 |
| 0106 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 2.36E-03 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 1.11E-04 | 1.09E-03 | 0.00E+00 | 1.11E-04 | 2.36E-03 | 382071 | 3765565 |
| 0107 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 2.36E-03 | 0.00E+00 | 1.11E-04 | 0.00E+00 | 1.11E-04 | 1.09E-03 | 0.00E+00 | 1.11E-04 | 2.36E-03 | 382071 | 3765565 |
| 0108 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 2.34E-03 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 1.10E-04 | 1.08E-03 | 0.00E+00 | 1.10E-04 | 2.34E-03 | 382051 | 3765530 |
| 0109 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 2.34E-03 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 1.10E-04 | 1.08E-03 | 0.00E+00 | 1.10E-04 | 2.34E-03 | 382051 | 3765530 |
| 0110 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 2.34E-03 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 1.10E-04 | 1.08E-03 | 0.00E+00 | 1.10E-04 | 2.34E-03 | 382051 | 3765530 |
| 0111 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 2.34E-03 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 1.10E-04 | 1.08E-03 | 0.00E+00 | 1.10E-04 | 2.34E-03 | 382051 | 3765530 |
| 0112 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 2.34E-03 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 1.10E-04 | 1.08E-03 | 0.00E+00 | 1.10E-04 | 2.34E-03 | 382051 | 3765530 |
| 0113 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 2.34E-03 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 1.10E-04 | 1.08E-03 | 0.00E+00 | 1.10E-04 | 2.34E-03 | 382051 | 3765530 |
| 0114 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 2.34E-03 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 1.10E-04 | 1.08E-03 | 0.00E+00 | 1.10E-04 | 2.34E-03 | 382051 | 3765530 |

# Appendix C

Tree Report

# TREE REPORT

## PREPARED FOR

31st & Figueroa Holdings  LLC

10474 Santa Monica Blvd, Ste. 402

Los Angeles, CA 90025

## PROPERTY

505, 511, 515 & 517 W. 31st Street

Los Angeles, CA 90007

## CONTACT

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Office:  310- 362-6168

jared.brenner-goldstein@canfield-development.com

January 1, 2017

## PREPARED BY

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REGISTERED CONSULTING ARBORIST #464

ISA CERTIFIED ARBORIST #WE3782

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**APPENDIX A** –TREE LOCATION MAP

**APPENDIX B** - PHOTOGRAPHS

**APPENDIX C** – SUMMARY OF FIELD INSPECTION

# TREE REPORT

505 - 511 and 515 - 517 W. 31st Street
Los Angeles, CA 90007

## SUMMARY

This Tree Report was prepared at the request of the property owner, 31st & Figueroa Holdings LLC. The owner is preparing to build a new residential complex.

The subject property is a collection of vacant lots located in the University Park area of Los Angeles, adjacent to Figueroa and Flower Street. The owner is preparing to redevelop the property with a new residential complex.

### PROTECTED TREES, URBAN FORESTRY DIVISION

This property is under the jurisdiction of the City of Los Angeles and guided by the Native Tree Protection Ordinance No. 177,404. **Protected Trees** are defined by this ordinance as Oaks (*Quercus* sp) indigenous to California but excluding the scrub oak (*Quercus dumosa*); Southern California black walnut (*Juglans californica* var. californica); Western sycamore *(Platanus racemosa)* and California bay laurel (*Umbellularia californica*) trees with a diameter at breast height (DBH) of four inches (4") or greater.

**There are NO trees on this property that would be considered protected within the City of Los Angeles Native Tree Protection Ordinance.**

### CITY OF LOS ANGELES STREET TREES, URBAN FORESTRY DIVISION

The proposed project includes sidewalk improvements that will significantly impact one (1) **City of Los Angeles Street PALM Tree.**

This tree will be removed and replaced at a two-to-one (2:1) ratio to the satisfaction of the Urban Forestry Division.

There are three (3) other street palm trees in the parkway of the subject property. These trees will be minimally impacted and retained and protected in place.

**NON-PROTECTED SIGNIFICANT TREES, DEPARTMENT OF CITY PLANNING**

The Department of City Planning requires the identification of the location, size, type and condition of all existing trees on the site with a DBH of 8 inches (8") or greater. These trees will be identified as **Non-Protected Significant Trees.**

There are two (2) Non-Protected Significant Trees on this property. Both trees will be significantly impacted by the proposed construction and will be removed and replaced at a one-to-one (1:1) ratio to the satisfaction of the Department of City Planning.

## ASSIGNMENT

The Assignment included a field observation and inventory of the trees on site. A Tree Location Plot Map is included in Appendix A. Photographs of the subject trees are included in Appendix B.

## TREE CHARACTERISTICS AND SITE CONDITIONS

Detailed information with respect to size, condition, species and recommendations are included in the Summary of Field Inspections in Appendix C. The trees are numbered on the Tree Location Map in Appendix A.

# IMPACT ANALYSIS AND SPECIFIC RECOMMENDATIONS

The proposed construction for this project will require the installation of a new driveway.

Street Palm tree #1 is located in the path of the proposed new driveway and cannot be retained. This tree will be removed and replaced at a two to one (2:1) ratio to the satisfaction of the Urban Forestry Division, at a 24" box minimum size.

Street Palm trees #2, #3, and #4 are located in parkway of the subject property where no new driveways or sidewalk improvements are required. These trees will be retained and protected in place throughout the course of construction.

Non-Protected Significant trees #5 and #6 are located in proposed construction zone. These trees will not tolerate the encroachment and are recommended for removal and replacement at a one-to-one (1:1) ratio, 24" box minimum size, to the satisfaction of the Department of City Planning.

## Summary of Replacement

| | Existing Trees to Be Removed | Trees to be Planted in Replacement |
|---|---|---|
| CITY OF L.A. STREET TREES REPLACED 2:1 | 1 | 2 |
| NON-PROTECTED SIGNIFICANT TREES REPLACED 1:1 | 2 | 2 |
| **TOTAL** | **3** | **4** |

General recommendations for tree protection during construction and new tree planting are included below.

# GENERAL RECOMMENDATIONS

During the course of construction, trees can receive much stress, pollution, soil compaction and lack of water. The following general recommendations should be followed to establish and maintain a healthy environment for all retained trees.

## WORKING IN THE TREE PROTECTION ZONE

This area generally encompasses an area within the dripline of the tree plus additional feet depending on the species and size of the tree. However, if you should need to encroach within a tree's protected zone, please follow these guidelines.

**Observation** – All work within the protected zone should be observed by a certified arborist experienced with each specific tree's requirements. The arborist should be contacted in a timely manner to ensure their availability.

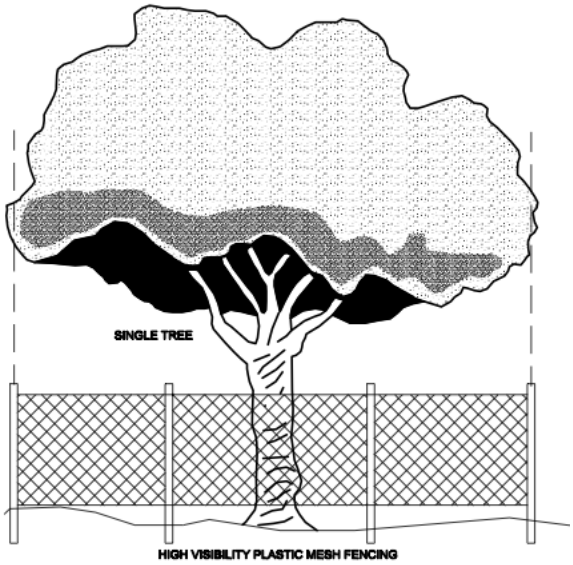
**Hand Tools** – All work should be performed utilizing hand tools only. To reduce compaction in the root zone, no large equipment, such as backhoes or tractors should be utilized in this protected zone.

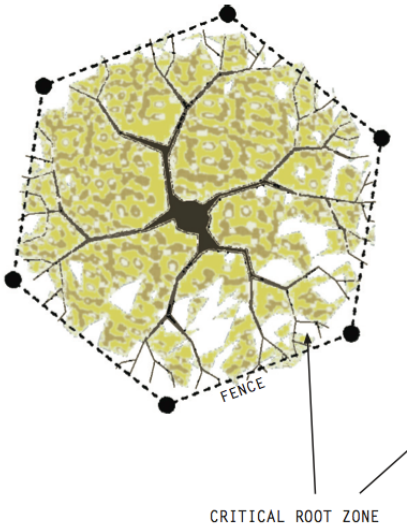
**Root Pruning - Should** there be a need to perform any light root pruning, it should be done carefully. The roots should be exposed through hand digging**. The roots should be cut at a 90-degree angle and cut cleanly**. No roots should be torn or jagged; this can lead to rotting and decay in the root zone and reduced stability and health in the tree. I caution excessive root pruning, and encourage you to err on the conservative side. If a tree is in any existing stress or is lacking in health and vigor, the root pruning can contribute to the quick decline of a tree.

**Protective Fencing** – If necessary, the arborist should be contacted to develop a specific fencing plan for your trees. Fencing may be of a flexible configuration and be a minimum of 4 feet in height. A warning sign must be displayed on the street side of the fence, stating the requirements of all workers in the protected zone. Throughout the course of construction, maintain the integrity of the tree protection zone fencing and keep the site clean and maintained at all times.

**Irrigation** – Irrigate trees for the duration of the project. If the tree is newly planted, deep watering should be weekly during its establishment period. If the tree is quite mature, deep water once per month during spring and summer months.

## PROTECTIVE FENCING




Tree protection fencing must be installed at the edge of the Tree Protection Zone (critical root zone) or beyond **prior to the start of any clearing, grading or other construction activity.** If space limits the fencing, place at the furthest possible distance from the trunk.

1) Fencing may be of a **flexible configuration or chain-link** and be a minimum of 4 feet in height supported by vertical posts at a maximum of ten-foot intervals to keep the fence upright and in place.

2) A warning sign should be posted on the fencing which states, **"Warning: Tree Protection Zone"** and stating the requirements of all workers in the protected zone. Example available upon request.

3) Throughout the course of construction, **maintain the integrity of the tree protection zone fencing and keep the site clean and maintained at all times.** No construction staging or disposal of construction materials or byproducts including but not limited to paint, plaster, or chemical solutions is allowed in the Tree Protection Zone.

## PLANTING WITHIN THE PROTECTED ZONE

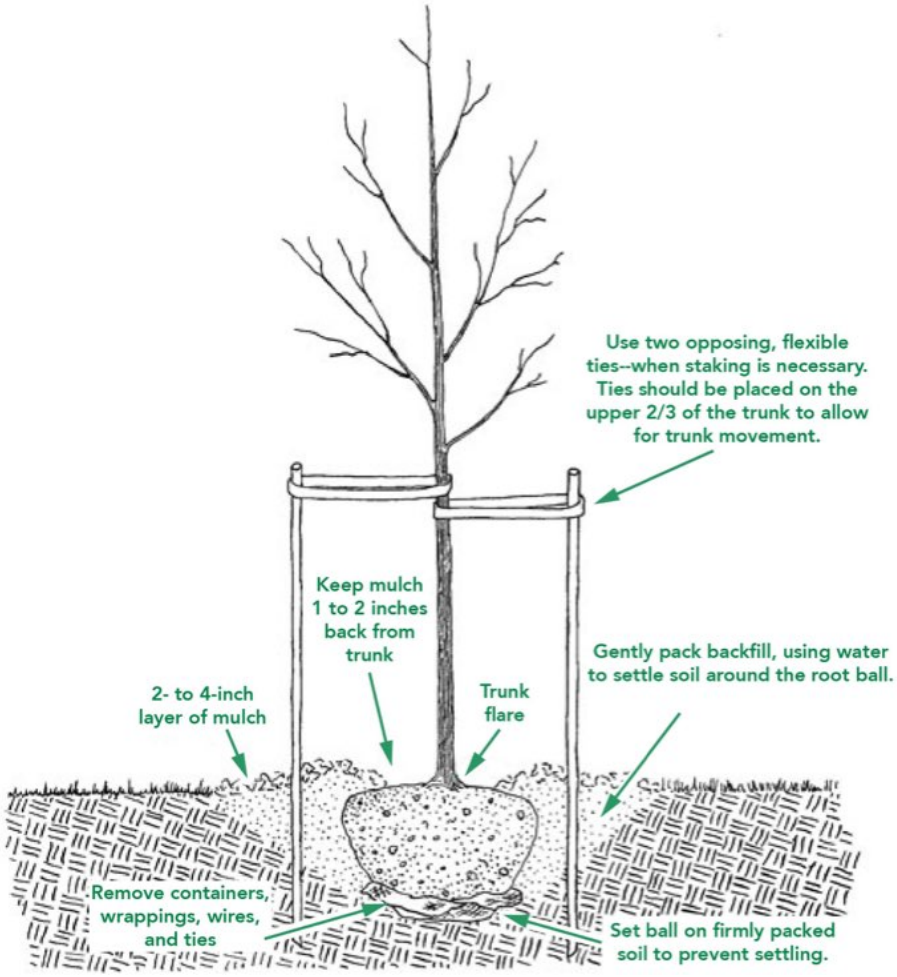
Trees remain healthier and vigorous with NO plantings within the protected zone. The natural leaf litter that the tree provides should be allowed to remain on the ground, to provide natural mulch and nutrients. If planting is desired, please follow these recommendations:

**Plant Selection** – Only drought tolerant plants that are compatible with the specific trees should be selected. Most importantly, select plants that are resistant to Armillaria or Phytophthora. Some trees are particularly susceptible to these diseases in urban areas and when under construction stress. Please refer to local guides for acceptable plant recommendations

**Irrigation** – Water should not be spraying toward the base of the trunk or tree; this can encourage rotting of the root crown. Excessive moisture on the base of the trunk can encourage Armillaria mellea (Oak Root Fungus) or Phytophthora cinnamomi (Avocado Root rot). Both of these fungus' can reduce the health and vigor of the tree, thus leading to decline and potential failure of the tree (falling over). It is recommended to only provide irrigation to the roots in the warmer months of spring and early summer, thus extending the natural rainy season. This irrigation should be provided via soaker hoses that do not spray upward.

**Mulch** - Apply a light layer of organic mulch over the root zone (approx. 3- 4 inches thick). The mulch will reduce loss of moisture from the soil, protect against construction compaction, and moderate soil temperatures. It also has been demonstrated that the addition of mulch reduces soil compaction over time. Do not place mulch against the trunk, instead placing at least 3 inches from base.

## NEW TREE PLANTING




The ideal time to plant trees and shrubs is during the dormant season, in the fall after leaf drop or early spring before budbreak. Weather conditions are cool and allow plants to establish roots in the new location before spring rains and summer heat stimulate new top growth. Before you begin planting your tree, be sure you have had all underground utilities located prior to digging.

If the tree you are planting is balled or bare root, it is important to understand that its root system has been reduced by 90 to 95 percent of its original size during transplanting. As a result of the trauma caused by the digging process, trees commonly exhibit what is known as transplant shock. Containerized trees may also experience transplant shock, particularly if they have circling roots that must be cut. Transplant shock is indicated by slow growth and reduced vigor following transplanting. Proper site preparation before and during planting coupled with good follow-up care reduces the amount of time the plant experiences transplant shock and allows the tree to quickly establish in its new location. Carefully follow nine simple steps, and you can significantly reduce the stress placed on the plant at the time of planting.

## NEW TREE PLANTING, continued

**1. Dig a shallow, broad planting hole.** Make the hole wide, as much as three times the diameter of the root ball but only as deep as the root ball. It is important to make the hole wide because the roots on the newly establishing tree must push through surrounding soil in order to establish. On most planting sites in new developments, the existing soils have been compacted and are unsuitable for healthy root growth. Breaking up the soil in a large area around the tree provides the newly emerging roots room to expand into loose soil to hasten establishment.

**2. Identify the trunk flare.** The trunk flare is where the roots spread at the base of the tree. This point should be partially visible after the tree has been planted (see diagram). If the trunk flare is not partially visible, you may have to remove some soil from the top of the root ball. Find it so you can determine how deep the hole needs for proper planting.

**3. Remove tree container for containerized trees.** Carefully cutting down the sides of the container may make this easier. Inspect the root ball for circling roots and cut or remove them. Expose the trunk flare, if necessary.

**4. Place the tree at the proper height.** Before placing the tree in the hole, check to see that the hole has been dug to the proper depth and no more. The majority of the roots on the newly planted tree will develop in the top 12 inches of soil. If the tree is planted too deeply, new roots will have difficulty developing because of a lack of oxygen. It is better to plant the tree a little high, 1-2 inches above the base of the trunk flare, than to plant it at or below the original growing level. This planting level will allow for some settling.

**5. Straighten the tree in the hole.** Before you begin backfilling, have someone view the tree from several directions to confirm that the tree is straight. Once you begin backfilling, it is difficult to reposition the tree.

**6. Fill the hole gently but firmly.** Fill the hole about one-third full and gently but firmly pack the soil around the base of the root ball. Be careful not to damage the trunk or roots in the process. Fill the remainder of the hole, taking care to firmly pack soil to eliminate air pockets that may cause roots to dry out. To avoid this problem, add the soil a few inches at a time and settle with water. Continue this process until the hole is filled and the tree is firmly planted. It is not recommended to apply fertilizer at time of planting.

**7. Stake the tree, if necessary.** If the tree is grown properly at the nursery, staking for support will not be necessary in most home landscape situations. Studies have shown that trees establish more quickly and develop stronger trunk and root systems if they are not staked at the time of planting. However, protective staking may be required on sites where lawn mower damage, vandalism, or windy conditions are concerns. If staking is necessary for support, there are three methods to choose among: staking, guying, and ball stabilizing. One of the most common methods is staking. With this method, two stakes used in conjunction with a wide, flexible tie material on the lower half of the tree will hold the tree upright, provide flexibility, and minimize injury to the trunk (see diagram). Remove support staking and ties after the first year of growth.

**8. Mulch the base of the tree.** Mulch is simply organic matter applied to the area at the base of the tree. It acts as a blanket to hold moisture, it moderates soil temperature extremes, and it reduces competition from grass and weeds. A 2- to 3-inch layer is ideal. More than 3 inches may cause a problem with oxygen and moisture levels. When placing mulch, be sure that the actual trunk of the tree is not covered. Doing so may cause decay of the living bark at the base of the tree. A mulch-free area, 1 to 2 inches wide at the base of the tree, is sufficient to avoid moist bark conditions and prevent decay.

# TREE MAINTENANCE AND PRUNING

Some trees do not generally require pruning. The occasional removal of dead twigs or wood is typical. Occasionally a tree has a defect or structural condition that would benefit from pruning. Any pruning activity should be performed under the guidance of a certified arborist or tree expert.

Because each cut has the potential to change the growth of the tree, no branch should be removed without a reason. Common reasons for pruning are to remove dead branches, to remove crowded or rubbing limbs, and to eliminate hazards. Trees may also be pruned to increase light and air penetration to the inside of the tree's crown or to the landscape below. In most cases, mature trees are pruned as a corrective or preventive measure.

Routine thinning does not necessarily improve the health of a tree. Trees produce a dense crown of leaves to manufacture the sugar used as energy for growth and development. Removal of foliage through pruning can reduce growth and stored energy reserves. Heavy pruning can be a significant health stress for the tree.

Yet if people and trees are to coexist in an urban or suburban environment, then we sometimes have to modify the trees. City environments do not mimic natural forest conditions. Safety is a major concern. Also, we want trees to complement other landscape plantings and lawns. Proper pruning, with an understanding of tree biology, can maintain good tree health and structure while enhancing the aesthetic and economic values of our landscapes.

## Pruning Techniques – From the I.S.A. Guideline

Specific types of pruning may be necessary to maintain a mature tree in a healthy, safe, and attractive condition.

**Cleaning** is the removal of dead, dying, diseased, crowded, weakly attached, and low- vigor branches from the crown of a tree.

**Thinning** is the selective removal of branches to increase light penetration and air movement through the crown. Thinning opens the foliage of a tree, reduces weight on heavy limbs, and helps retain the tree's natural shape.

**Raising** removes the lower branches from a tree to provide clearance for buildings, vehicles, pedestrians, and vistas.

**Reduction** reduces the size of a tree, often for clearance for utility lines. Reducing the height or spread of a tree is best accomplished by pruning back the leaders and branch terminals to lateral branches that are large enough to assume the terminal roles (at least one-third the diameter of the cut stem). Compared to topping, reduction helps maintain the form and structural integrity of the tree.

# TREE MAINTENANCE AND PRUNING, continued

## How Much Should Be Pruned?

Mature trees should require little routine pruning. A widely accepted rule of thumb is never to remove more than one-quarter of a tree's leaf-bearing crown. In a mature tree, pruning even that much could have negative effects. Removing even a single, large- diameter limb can create a wound that the tree may not be able to close. The older and larger a tree becomes, the less energy it has in reserve to close wounds and defend against decay or insect attack. Pruning of mature trees is usually limited to removal of dead or potentially hazardous limbs.

## Wound Dressings

Wound dressings were once thought to accelerate wound closure, protect against insects and diseases, and reduce decay. However, research has shown that dressings do not reduce decay or speed closure and rarely prevent insect or disease infestations. Most experts recommend that wound dressings not be used.

## DISEASES AND INSECTS

Continual observation and monitoring of your tree can alert you to any abnormal changes. Some indicators are: excessive leaf drop, leaf discoloration, sap oozing from the trunk and bark with unusual cracks. Should you observe any changes, you should contact a Tree specialist or Certified Arborist to review the tree and provide specific recommendations. Trees are susceptible to hundreds of pests, many of which are typical and may not cause enough harm to warrant the use of chemicals. However, diseases and insects may be indication of further stress that should be identified by a professional.

## GRADE CHANGES

The growing conditions and soil level of trees are subject to detrimental stress should they be changed during the course of construction. Raising the grade at the base of a tree trunk can have long-term negative consequences. This grade level should be maintained throughout the protected zone. This will also help in maintaining the drainage in which the tree has become accustomed.

## INSPECTION

The property owner should establish an inspection calendar based on the recommendation provided by the tree specialist. This calendar of inspections can be determined based on several factors: the maturity of the tree, location of tree in proximity to high-use areas vs. low-use area, history of the tree, prior failures, external factors (such as construction activity) and the perceived value of the tree to the homeowner.

## Assumptions and Limiting Conditions

No warranty is made, expressed or implied, that problems or deficiencies of the trees or the property will not occur in the future, from any cause. The Consultant shall not be responsible for damages or injuries caused by any tree defects, and assumes no responsibility for the correction of defects or tree related problems.

The owner of the trees may choose to accept or disregard the recommendations of the Consultant, or seek additional advice to determine if a tree meets the owner's risk abatement standards.

The Consulting Arborist has no past, present or future interest in the removal or retaining of any tree. Opinions contained herein are the independent and objective judgments of the consultant relating to circumstances and observations made on the subject site.

The recommendations contained in this report are the opinions of the Consulting Arborist at the time of inspection. These opinions are based on the knowledge, experience, and education of the Consultant. The field inspection was a visual, grade level tree assessment.

The Consulting Arborist shall not be required to give testimony, perform site monitoring, provide further documentation, be deposed, or to attend any meeting without subsequent contractual arrangements for this additional employment, including payment of additional fees for such services as described by the Consultant.

The Consultant assumes no responsibility for verification of ownership or locations of property lines, or for results of any actions or recommendations based on inaccurate information.

This Arborist report may not be reproduced without the express permission of the Consulting Arborist and the client to whom the report was issued. Any change or alteration to this report invalidates the entire report.

Should you have any further questions regarding this property, please contact me at (310) 663-2290.

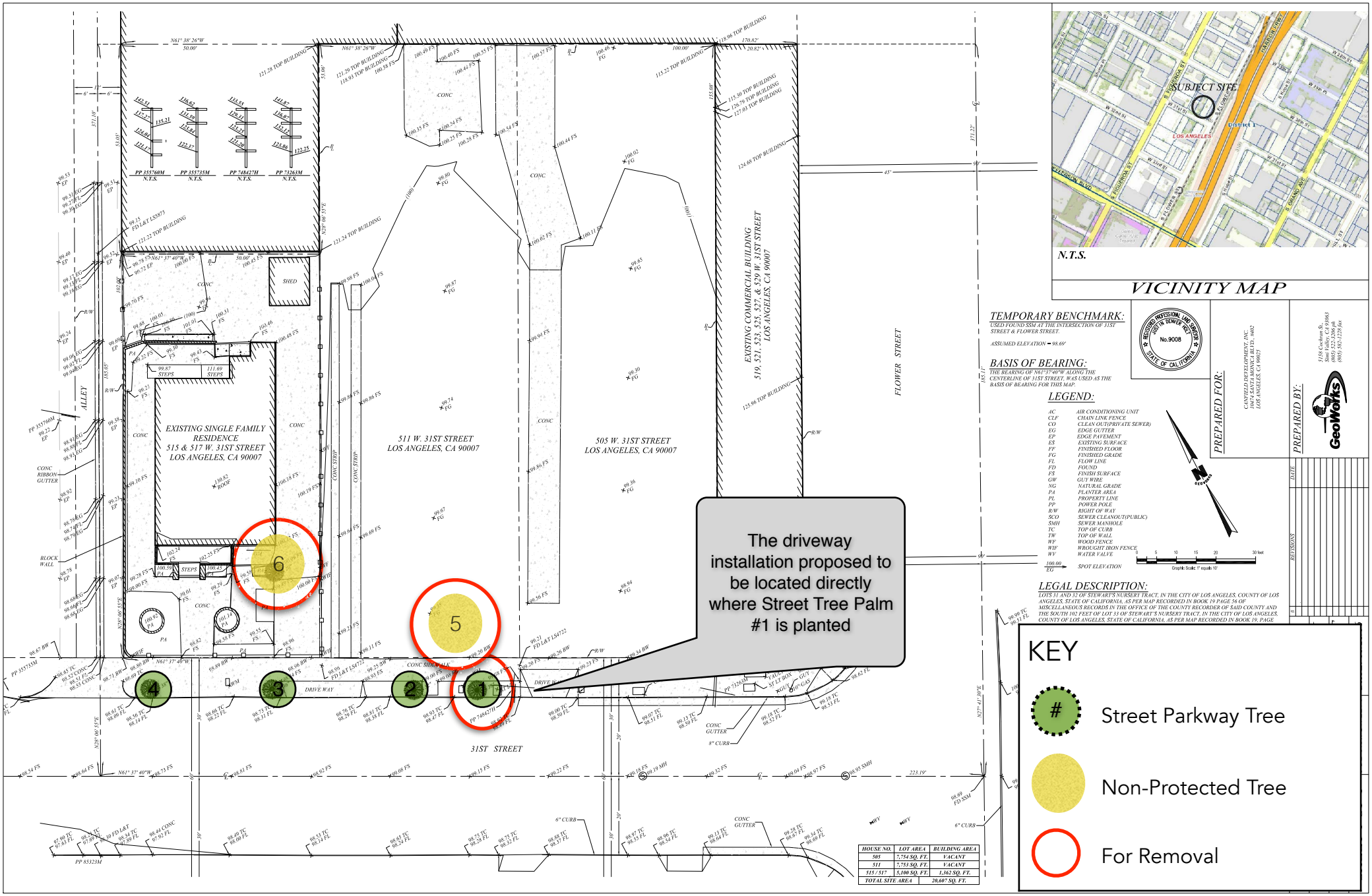
Respectfully submitted,

**Lisa Smith**

Registered Consulting Arborist #464
ISA Certified Arborist #WE3782
ISA Tree Risk Assessor Qualified
American Society of Consulting Arborists, Member

# APPENDIX A -Tree Location Map

505, 511, 515 & 517 W. 31st Street, Los Angeles 90007




| HOUSE NO. | LOT AREA | BUILDING AREA |
|---|---|---|
| 505 | 7,754 SQ. FT. | VACANT |
| 511 | 7,754 SQ. FT. | VACANT |
| 515 / 517 | 5,100 SQ. FT. | 1,362 SQ. FT. |
| TOTAL SITE AREA | | 20,607 SQ. FT. |

## **APPENDIX B** - PHOTOGRAPHS

**PHOTO.** Shows the collection of six (6) trees at the subject property. Street Palm Tree #1 is located in the footprint of the proposed new driveway, and will be removed and replaced to the satisfaction of the Urban Forestry Division. The other three Street Palm Trees will be retained and protected in place.

# APPENDIX C - SUMMARY OF FIELD INSPECTION

Rating Code: A = Excellent, B = Good, C = Fair, D = Poor, E = Nearly Dead, F = Dead

| Tree # | Location | Species | Status | DBH (") | Height (') | Spread (') | Rating | Retain or Remove |
|---|---|---|---|---|---|---|---|---|
| 1 | Parkway | California Fan Palm *Washingtonia filifera* | City of LA Street Tree | 20 | 50 | 8 | C | REMOVE |
| 2 | Parkway | California Fan Palm *Washingtonia filifera* | City of LA Street Tree | 20 | 50 | 8 | C | RETAIN |
| 3 | Parkway | Canary Island Palm *Phoenix canariensis* | City of LA Street Tree | 20 | 30 | 15 | C | RETAIN |
| 4 | Parkway | Canary Island Palm *Phoenix canariensis* | City of LA Street Tree | 20 | 35 | 15 | C | RETAIN |
| 5 | On Property | Non-Native Tree | Non-Protected Significant | 12 | 25 | 25 | C | REMOVE |
| 6 | On Property | Mexican Fan Palm *Washingtonia robusta* | Non-Protected Significant | 12 | 50 | 8 | C | REMOVE |

# Appendix D

Geotechnical Report

GeoConcepts INC
Geology - Geotechnical Engineering

# PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION

## Proposed Apartment Building

## Tract: Stewart's Nursery Tract, Lots: 31, 32 and 33 (Arb. 1)

## 505, 511 & 517 West 31st Street

## Los Angeles, California

**for**

**Canfield Development**

**Attention: Brian Gelt**

**10474 Santa Monica Blvd, Suite 402,**

**Los Angeles, CA 90025**

**Project 5266**

**January 11, 2017**

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14428 Hamlin Street, #200, Van Nuys, CA 91401 + (818) 994-8895 Office + (818) 994-8599 Fax

PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION

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## INTRODUCTION

This report presents the results of a Preliminary Geotechnical Engineering Investigation on a portion of the subject property. The purpose of this investigation has been to ascertain the subsurface conditions pertaining to the proposed project. The work performed for the project included reconnaissance mapping, description of earth materials, obtaining representative samples of earth materials, laboratory testing, engineering analyses, and preparation of this report. Results of the project include findings, conclusions, and appropriate recommendations.

## SCOPE

The scope of this investigation included the following:

- Review of preliminary plans by Hochhauser Blatter.
- Review of nine (9) test pit explorations and four (4) borings. Explorations were backfilled with the excavated materials but not compacted.
- Preparation of the enclosed Plot Map and Cross Sections, (see Appendix I).
- Sampling of representative earth materials, laboratory testing, and engineering analyses (see Appendix II).
- Review of referenced materials and available public reports at the City of Los Angeles (see Appendix V).
- Presentation of findings, conclusions, and recommendations for the proposed project.

Geoworks prepared the topographic base map utilized in this investigation. Preliminary building plans were prepared by Hochhauser Blatter and incorporated onto the base map for this investigation.

The scope of this investigation is limited to the project area explored as depicted on the Plot Map. This report has not been prepared for use by other parties or for purposes other than the proposed project. GeoConcepts, Inc. should be consulted to determine if additional work is required when our work is used by others or if the scope of the project has changed. If the project is delayed for more than one year, this office should be contacted to verify the current site conditions and to prepare an update report.

## PROPOSED DEVELOPMENT

It is our understanding that the site will be developed with a seven story apartment building with one level subgrade parking. Anticipated foundations will range from 6 to 7 kips per lineal foot and 600-700 kips for column foundations. The proposed development is depicted on the enclosed Plot Map and Cross Sections.

Grading will consist of conventional cut and fill methods. Final plans have not been prepared and await the conclusions and recommendations of this investigation. These plans should be reviewed by GeoConcepts, Inc. to ensure that our recommendations have been followed.

## SITE DESCRIPTION

### Location and Description

Access to the property is via 31st Street from South Figueroa Street (see Location Map in Appendix I). The site at 505 & 511 West 31st Street is vacant and generally unimproved. The site at 517 West 31st Street is developed with a two-story, multi-family residence with a detached storage building. The pad has a light to moderately dense growth of vegetation consisting of grasses, lawn areas, shrubs and trees.

The adjacent site to the east is developed with a one to two story brick commercial building. The site to the north is developed with one story brick/block commercial building. The site the west is developed with a one story block commercial building and the alley.

### Drainage

Surface water at the site consists of direct precipitation onto the property. The site was not provided with roof gutters and downspouts. No area drains and/or subdrain outlet pipes were observed on the property.

### Groundwater

No active surface groundwater seeps or springs were observed on the subject site. The subsurface exploration did not encounter groundwater to a depth of (41) feet. The depth to groundwater, when encountered in the explorations, is only valid for the date of exploration. Based on the Seismic Hazard Zone Report by the California Geological Survey (formerly Division of Mines and Geology), the depth to historical high groundwater level is about sixty (60.0) feet below the surface. Seasonal fluctuations of groundwater levels may occur by varying amounts of rainfall, irrigation and recharge.

## FIELD EXPLORATION

The scope of the field exploration was developed based on the preliminary plans of the proposed development available at the time of the exploration and was limited to the area of the proposed development. The locations of the explorations are depicted on the Plot Map and Cross Sections. The field exploration was limited by existing structures, hardscape, and/or underground utilities on the site.

The field exploration of the site was conducted on October 19 & 20, 2016. The geotechnical conditions were mapped by a representative of this office (refer to Exploration Logs). Subsurface exploration was performed by a conventional drill rig and manual excavation into the underlying earth materials. Explorations were excavated to a maximum depth of forty-one (41) feet. All explorations were backfilled and tamped upon completion of down-hole observation. However, some settlement within exploration areas should be anticipated.

Detailed descriptions of the earth materials encountered during the field exploration are provided in the Exploration Logs and Boring Logs in Appendix I.

Undisturbed and bulk samples representative of the earth materials were obtained and transported to our laboratory. Undisturbed Modified California (MC) samples were obtained within the explorations through the use of a thin-walled steel sampler with successive blows of the Kelly bar. MC samples were retained in brass rings of two and one-half inches (2½") in diameter and one inch (1") in height. The samples were transported in moisture tight containers. The results of the laboratory testing and a summary of the test procedures are included within Appendix II.

## SUMMARY OF FINDINGS

### Stratigraphy

The earth materials encountered on the subject property are briefly described below. Approximate depths and more detailed descriptions are given in the enclosed Exploration Logs (see Appendix I).

#### Artificial Fill (Af)

Artificial fill was encountered on the subject site. Fill materials were presumably placed during pad grading and construction of the previous structures. Fill generally consists of silty sand to sand, loose.

#### Quaternary Alluvium (Qal)

Alluvial deposits underlie the site. Alluvium is weathered bedrock material and sediments that have been eroded from natural slopes and deposited in generally flat lying areas. Alluvium primarily consists of silty sand to sand with gravels and cobbles.

### Excavation Characteristics

Subsurface exploration was performed through the use of hand labor and bucket-auger drill rig excavating into generally fill and alluvium. Excavation difficulty is considered normal within the earth materials encountered and should not be limited to consideration of rippability of the earth material. Cohesionless sandy material, although easy to remove, may be subject to sloughing and caving. Caving and sloughing was encountered during the drilling of the borings. Therefore difficulty may be encountered maintaining an open excavation. Casing may be required. Fine grained materials such as clays and silts may increase in density with depth due to overburden pressure. Thus, difficulty excavating into the material may increase with depth.

## Landslides

Landslides are a mass wasting phenomenon in mountainous and hillside areas which include a wide range of movements. In Southern California common slope movements include shallow surficial slumps and flows, deep-seated rotational and translational bedrock failures, and rock falls. Landslides occur when the stability of the slopes change to an unstable condition resulting from a number of factors. Common natural factors include the physical and/or chemical weathering of earth materials, unfavorable geologic structure relative to the slope geometry, erosion at the toe of a slope, and precipitation. These factors may be further aggravated by human activities such as excavations, removal of lateral support at the toe of a slope, surcharge at the top of a slope, clearing of vegetation, alteration of drainage, and the addition of water from irrigation and leaking pipes.

The subject site is relatively flat with very little topography which precludes the potential for landslides and/or other hazards typically associated with hillside properties.

## Seismic Hazards

### Earthquake Faults

The Alquist-Priolo Earthquake Fault Zoning (AP) Act was passed into law following the destructive February 9, 1971 San Fernando earthquake. The intent of the Act is to increase public safety by reducing the siting of most structures for human occupancy across an active fault. The Act only addresses the hazard of surface fault rupture and is not directed toward other earthquake hazards. The property is not located within an Alquist-Priolo Earthquake Fault Zone. The general locations of major faults within Southern California are depicted on a fault map provided by the USGS in Appendix I.

### Active Faults

The following active faults are capable of producing seismic waves (ground shaking) on the subject property. A summary description of the closest active faults and potentially active faults to the site are described herein and labeled by number on the map below. An active fault, as defined by the State Mining and Geology Board, is one, which has “had surface displacement within Holocene time (about the last 11,000 years)”.

The San Andreas Fault zone (42) is the dominant active fault in California. Geologic studies show that over the past 1,400 to 1,500 years large earthquakes have occurred at about 150-year intervals on the southern San Andreas Fault. It consists of numerous subparallel faults of varied lengths in a zone generally 0.3 to 1.5 km wide in Southern California. The dip of the fault is near vertical and the sense of motion is right lateral. Historically, the 1857 Fort Tejon earthquake with an estimated magnitude of 7.9 ruptured the ground surface from the vicinity of Cholame (near Paso Robles) to somewhere between the Cajon Pass and San Gorgonio Pass (Wrightwood), approximately 200 miles. Studies of offset stream channels indicate that as much as (29) feet of movement occurred in 1857. The fault extends from the Gulf of California northward to the Cape Mendocino area where it continues along the ocean floor, approximately 750 miles in length.

The Northridge earthquake occurred on January 17, 1994, in the San Fernando Valley. The epicenter was about 1 mile south-southwest of Northridge at a focal depth of 12 miles. The surface wave magnitude was issued by the National Earthquake Information Center at Mw=6.7. This event occurred on a previously unrecognized south-dipping blind reverse fault without surface rupture. This earthquake produced the strongest ground motions ever instrumentally recorded in an urban setting in North America. Damage was wide-spread with sections of major freeways collapsed include some parking structures and office buildings. Common surface disruptions included buckled curbs and sidewalks, fissured concrete and asphalt, and rupture of utility lines which are generally aligned in northwest and east-west directions. Shattered ridges were reported along Mulholland Drive in the Sherman Oaks area, consisting of intense ground disturbances associated with strong vibratory ground motions within the north trending ridges underlain by shale of the Lower Modelo formation.

The Whittier-Elsinore fault zone (60) consists of several subparallel, overlapping and en echelon fault strands in a zone up to 1.2 km wide. It extends nearly 125 miles from the Mexican border to the northern edge of the San Fernando Valley. Seismicity includes the Whittier Narrows earthquake of October 1, 1987 with a magnitude of 5.9 and an epicenter in the city of Rosemead. This earthquake occurred on a previously unknown and concealed thrust fault. There was no reported surface rupture from the earthquake. Also, numerous close and scattered small earthquakes have occurred in historic time near and along the fault.

The San Fernando fault (45) consists of five major en echelon strands at least 9.5 miles in length. The "San Fernando" earthquake of February 9, 1971 produced a magnitude of Mw 6.5 at a depth of 8.4 km along an east west trending reverse fault with a northerly dip. The length of the surface rupture was about 9.5 miles and ground shaking lasted for approximately 60 seconds. The earthquake ruptured the northwestern end of the Sierra Madre Fault zone forming the San Fernando Fault. Major damage included the Olive View and Veterans Administration Hospitals and collapse of freeway overpasses. Landslides occurred in the Upper Lake area of Van Norman Lakes. Additionally the Van Norman Dam and the Pacoima Dam were severely damaged.

The eastern portion of the Santa Susana fault (52) ruptured during the 1971 San Fernando Earthquake. The Santa Susana fault consists of several strands in a zone as wide as 1 km. It generally strikes from north 75 degrees west to north 50 degrees east and dips to the north. The fault is a high angle reverse fault. The fault appears to have been generated by northeast-southwest oriented compressional stress.

The Newport-Inglewood fault zone (31) consists of several strands that extend from offshore by Laguna Beach to either merge with or be truncated by the Malibu-Santa Monica fault zone near Beverly Hills. The fault has a length of about 45 miles. It was the source of the "Long Beach" earthquake, which occurred on March 10, 1933 with a magnitude of 6.3. Numerous small earthquakes have occurred in historic time along and near the fault zone. The fault zone is easily observed by an alignment of hills and mesas including Cheviot Hills, Baldwin Hills, Rosecrans Hills, Dominguez Hills, Signal Hill, Reservoir Hill, Alamitos Heights, Landing Hill, Bolsa Chica Mesa, and Newport Mesa.

In June 1995, two portions of the Malibu Coast fault zone (27) were reclassified as active fault zones by the State of California. On August 16, 2007, the fault zone near the east side of Malibu Bluff Park was removed from the State of California Earthquake Fault Zone map by the State of California. The east west trending Malibu Coast fault consists of several subparallel strands in a zone as wide as 0.5 km, with a length of at least 17 miles. It strikes east west and dips (45) to (80) degrees to the north. The Malibu Coast fault has the potential to produce a large Maximum Credible Peak and Repeatable Acceleration on the subject property. The duration of the Malibu Coast fault is estimated at (11) seconds assuming fault end nucleation and unidirectional rupture propagation, (Bolt, 1981). The Malibu Coast fault is thought to be part of other faults such as the Santa Monica fault and Hollywood fault that separate the Transverse Ranges on the north from the Peninsula Range on the south. Two Malibu Earthquakes occurred with Magnitudes of $M_L$ 5.2 and $M_L$ 5.0 on January 1, 1979 and January 18, 1989, respectively. It was reported that only minor damage occurred in the areas closest to the epicenter.

The Hollywood fault zone (22) extends along the base of the Santa Monica Mountains. This fault was added to the list of active fault by the State of California in 2014. Generally, the Hollywood fault extends eastward for a distance of 15 km through Beverly Hills, West Hollywood, and Hollywood to the Los Angeles River. The fault is primarily expressed at the ground surface by scarp-like features. This is a left–reverse fault with an estimated slip rate between 0.33 mm/yr and 0.75 mm/yr, (Petersen and Wesnousky 1994).

The Raymond fault (39) is a combination fault with reverse and left slip movement that acts as a groundwater barrier within the densely populated San Gabriel Valley. The activity of the fault is attested to by the numerous geomorphic features found along its entire length of approximately 14 miles. Scattered small earthquakes have occurred north of the fault trace. It may be the source of the 1855 Los Angeles earthquake. The Raymond fault is an east-trending fault made up of other faults such as the Hollywood and Santa Monica faults that separate the Transverse Ranges on the north form the Peninsula Range on the south.

The Sierra Madre fault zone (53) is often divided into five main segments; Vasquez Creek fault, Clamshell fault (10), Sawpit Canyon fault (10), Duarte fault and the Cucamonga fault (14). The Sierra Madre earthquake of June 28, 1991 (Mw5.8) was in the San Gabriel Mountains. An estimated 33.5 million dollars of damage has been reported. The Sierra Madre fault zone is about 75 km long. It's a thrust fault system along the south edge of the San Gabriel Mountains. The east end of the Sierra Madre fault zone intersects the San Jacinto fault and the San Andreas Fault. The 1971 San Fernando earthquake occurred on the San Fernando-Sunland segment of the Sierra Madre fault zone.

The San Gabriel fault (46) consists of several en echelon fault strands in a zone approximately 0.5 km wide, with a length of about 90 miles. The fault trends northwestward and subparallel to the San Andreas Fault. As of March 1, 1988, a portion of the Newhall segment of the fault zone was reclassified as an active fault. Fault activity has been dated between 1550 and 3500 years before present within the Newhall segment. The youngest ground rupture event has broken alluvial beds to within five feet of the ground surface. Geologic evidence suggests 38 miles of right lateral offset has occurred between 14 million and 3 million years ago and may have functioned as an ancestral branch of the San Andreas Fault. Recent studies suggest that the major strike slip movement has become inactive and dip slip movement is active at the present

time.

Potentially Active Faults

A potentially active fault, as defined by the State Mining and Geology Board, is one, which has had surface displacement during Quaternary time (last 1.6 million years). "These faults are those based on available data along which no known historical ground surface ruptures or earthquakes have occurred. These faults, however, show strong indications of geologically recent activity". The following list provides potentially active faults that are capable of producing seismic waves (ground shaking) on the property.

The Santa Monica fault (50) extends east from the coastline in Pacific Palisades through Santa Monica and West Los Angeles and merges with the Hollywood fault. Several local geologists believe portions of the Santa Monica fault zone are active. Currently, it is listed by the State of California as a potentially active fault. Portions of the fault zone may change to "active" and be placed within the Alquist-Priolo Earthquake Fault Zone as additional geologic reports are submitted to the State containing evidence of Holocene activity. The Santa Monica fault consists of one or more fault strands, with a poorly known geometry. Generally, the fault strikes northeast 60 to 80 degrees and dips 45 to 65 degrees northwest at depth with a few near vertical surface traces. The length of the fault is at least 25 miles. The composite local mechanism of fault displacement is a reverse left lateral along the Santa Monica-Hollywood-Raymond fault zone. The Santa Monica and Hollywood faults may be part of a larger fault system that includes Malibu Coast, Raymond and Cucamonga fault system. This fault zone forms the central portion of a major tectonic boundary separating the east west trending Transverse Ranges province to the north from the northwest trending Peninsular Ranges province to the south.

The Benedict Canyon fault zone trends eastward through the Santa Monica Mountains. The fault may be part of the Hollywood-Santa Monica-Raymond fault system. The activity of the fault is based on offsets in groundwater bearing sediments that correlate with steep dipping gravity gradients. The fault extends through Universal City and along the north side of the eastern part of the Santa Monica Mountains.

The Simi fault (54) consists of a single strand that bifurcates at the western end. Generally, it strikes north 70-80 degrees east and dips 60 to 75 degrees north with a length of about 31-km.

The Mission Hills fault (30) is an east west trending fault with a length of about 9 km. The fault is presumed to be a single strand that strikes north 80 degrees east to east west and dips about 80 degrees to the north.

The Chatsworth fault (8) is a reverse fault which juxtaposes Cretaceous Chatsworth formation and Paleocene Martinez formation over Miocene Modelo formation within the San Fernando Valley.

The Palos Verdes Hills fault (35) consists of several en echelon strands locally in a zone as wide as 2 km with a length of 50 miles. It strikes north between 20 and 60 degrees west with dips of 70 degrees to the southwest.

Seismic Effects

During an earthquake there are several primary geologic hazards such as ground rupture, ground shaking, landslides, and liquefaction that can adversely affect property, structures, and improvements. On hillside properties, the potential exists for landsliding from ground shaking which may adversely affect property, structures, and improvements. Properties near and along the coastline may potentially be affected by inundation due to tsunamis generated from a seismic event. The State of California has prepared maps that detail areas which may require assessment for ground rupture, landsliding and/or liquefaction. Strong ground shaking is the primary hazard that causes damage from earthquakes and these areas have been zoned with a high level of seismic shaking hazard. The historical earthquake record in Southern California is less than 200 years; therefore, potential damage from a seismic event is not limited areas that have experienced damage in the past. Based on the above discussion, earthquake insurance with building code upgrades is suggested.

There are several active and/or potentially active faults that could possibly affect the site within Los Angeles County. Although all of Southern California is within a seismically active region, some areas have a higher potential for seismic damage than others. The current scientific technology does not provide for accurate prediction of the time, location, or magnitude of an earthquake event.

It should be understood that the following discussion is an evaluation of risk and degree of potential damage to a structure if a fault were to rupture on or near the site and does not imply that a fault may or may not be present beneath the site. An assessment of damage to the structure is based on the Modified Mercalli Intensity Scale which is correlated to observed damage from seismic events. Intensity/damage associated with an earthquake is not directly correlated to magnitude. For a given magnitude of an earthquake, the intensity/damage to a structure may vary depending on the subsurface earth materials, type of fault rupture, hypocenter depth, and local building practices in effect during the construction of a structure.

An evaluation of the seismic effects on a property is designed to provide the client with rational and believable seismic data that could affect the property during the lifetime of the proposed improvements. The minimum design acceleration for a project is listed in the Building Code. It is recommended that the structural design of the proposed project be based on current design and acceleration practices of similar projects in the area. The project structural designer should review and verify all of the seismic design parameters prior to utilizing the information for the design.

Ground Rupture

Ground rupture is the result of movement from an active fault. A fault is a fracture in the crust of the earth along which rocks on one side have moved relative to those on the other side. No known active fault is mapped on the subject site.

Ground Shaking

Ground shaking caused by an earthquake is likely to occur at the site during the lifetime of the development due to the proximity of several active and potentially active faults. Generally, on a regional scale, quantitative predictions of ground motion values are linked to peak acceleration and repeatable acceleration, which are a response to earthquake magnitudes relative to the fault distance from the subject property. Southern California major earthquakes are generally the result of large-scale earth processes in which the Pacific plate slides northwestward relative to the North American plate at about 2 inches/year.

The potential for lurching, surface manifestations, landslides, and topographic related features from ground/seismic shaking can occur almost anywhere in Southern California. Proper maintenance of properties can mitigate some of the potential for these types of manifestations, but the potential cannot be completely eliminated. Many structures were built before earthquake codes were adopted; others were built according to codes formulated when less was known about the intensity of near-fault shaking. Therefore, the margin of safety is difficult to quantify.

A publicly available computer program provided by the United States Geological Survey (USGS) was utilized for the probabilistic prediction of peak horizontal ground acceleration from digitized design maps of Maximum Considered Earthquake (MCE) ground response. A summary of the seismic design parameters is provided in Appendix III. The project structural designer should verify all of the input parameters and review all of the resulting seismic design parameters prior to utilizing the information for the design.

Tsunamis & Seiches

Properties located along the coastline have a potential for inundation from a tsunami. Tsunamis are ocean waves produced by sudden water displacement resulting generally from offshore earthquakes, large submarine landslides or submarine volcanic eruptions. Once generated, a tsunami can travel thousands of miles at high speeds up to 400 miles per hour. However, the topography of the sea floor and Channel Islands may minimize the risk of a large tsunami generated from a distant offshore earthquake impacting the Southern California coast.

The 1964 Alaskan Earthquake produced sea waves of less than four feet in the Los Angeles Harbor. The 1960 Chilean Earthquake produced sea waves of about five feet at Redondo Beach. Little data exists to evaluate the potential for a local tsunami generated off the coast of Southern California. Historically, two documented tsunamis have been generated off the coast of Southern California. The 1812 Santa Barbara Earthquake was reported to generate (10) to (12) foot high sea waves at Gaviota. The 1927 Point Arguello Ms 7.3 Earthquake produced run-up heights of (5) feet at Port San Luis.

The lower threshold for tsunami development is considered to be about a magnitude of M6.5. Offshore faults and the Santa Monica faults appear capable of producing a magnitude of M6.5 earthquake and conceivably producing a sea wave. In their 2003 study, Evaluation of Tsunami Risk to Southern California Coastal Cities, Legg et al modeled tsunami propagation and run-up from a potential M7 to M7.4 magnitude earthquake on the offshore Catalina fault near Santa Catalina Island. The report concluded that run-up heights along the coast of Southern California

could be on the order of 2 to 4 meters. Their stated recurrence times are on the order of a few hundred years for a large earthquake on offshore faults. The site is not located along the beach; therefore, there is very little potential for inundation of the site from a tsunami event.

Seiches are waves with low-energy within reservoirs, lakes, and bays that are generally produced by strong earthquake shaking. The proposed project is not located near a reservoir, lake, or bay; therefore, the potential for damage to the site from a seiche is nil.

### Earthquake Induced Landslides

The State of California has prepared Seismic Hazard Zone Reports to regionally map areas of potential increased risk of permanent ground displacement based on historic occurrence of landslide movement, local topographic expression, and geological and geotechnical subsurface conditions. The maps may not identify all areas that have potential for earthquake-induced landsliding, strong ground shaking, or other earthquake-related geologic hazards. The subject site is not located within an earthquake-induced landslide hazard zone on the State of California Seismic Hazard Map.

The subject site is relatively flat with very little topography which precludes the potential for landslides and/or other hazards typically associated with hillside properties.

### Liquefaction

The State of California has prepared Seismic Hazard Zone Reports to regionally map areas where historic occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacement. The maps may not identify all areas that have potential for liquefaction, strong ground shaking, and other earthquake and geologic hazards. The subject site is not located within a liquefaction hazard zone on the State of California Seismic Hazard Zone Map.

A detailed subsurface analysis can be performed to determine the liquefaction potential on the subject site and provide recommendations to mitigate the effects of liquefaction. A proposal for a detailed analysis will be prepared if requested.

Liquefaction is a process by which sediments below the water table temporarily lose strength and behave as a viscous liquid rather than a solid. The types of sediments most susceptible are clay-free deposits of sand and silts; occasionally gravel liquefies. Liquefaction can occur when seismic waves, primarily shear waves, pass through saturated granular layers distorting the granular structure, and causing loosely packed groups of particles to collapse. These collapses increase the pore-water pressure between grains if drainage cannot occur. If the pore-water pressure rises to a level approaching the weight of the overlying soil, the granular layer temporarily behaves as a viscous liquid rather than a solid.

In the liquefied condition, soil may deform with little shear resistance; deformations large enough to cause damage to buildings and other structures are called ground failures. The ease with

which a soil can be liquefied depends primarily on the looseness of the material, the depth, thickness and areal extent of the liquefied layer, the ground slope and the distribution of loads applied by buildings and other structures.

Liquefaction induced ground deformations (detailed below) will have an effect on the proposed and existing development that can result in significant structural damage, collapse or partial collapse of a structure, especially if there is significant differential settlement or lateral spreading between adjacent structural elements. Even without collapse, significant settlement or lateral spreading could result in significant structural damage including, but not limited to, blocked doors and windows that could trap occupants.

### Surface Manifestations

The determination of whether surface manifestation of liquefaction (such as sand boils, ground fissures etc.) will occur during earthquake shaking at a level-ground site can be made using the method outlined by Ishihara (1985). It is emphasized that settlement may occur, even with the absence of surface manifestation. Youd and Garris (1994 and 1995) evaluated the Ishihara method and concluded that the method is not appropriate for level ground sites subject to lateral spreading and/or ground oscillation.

### Lateral Spreads

Whereas the potential for flow slides may exist at a building site, the degradation in undrained shear resistance arising from liquefaction may lead to limited lateral spreads (of the order of feet or less) induced by earthquake inertial loading. Such spreads can occur on gently sloping ground or where nearby drainage or stream channels can lead to static shear stress biases on essentially horizontal ground (Youd, 1995). At larger cyclic shear strains, the effects of dilation may significantly increase post liquefaction undrained shear resistance. However, incremental permanent deformations will still accumulate during portions of the earthquake load cycles when low residual resistance is available. Such low resistance will continue even while large permanent shear deformations accumulate through a ratcheting effect. Such effects have recently been demonstrated in centrifuge tests to study liquefaction induced lateral spreads, as described by Balakrishnan et al. (1998). Once earthquake loading has ceased, the effects of dilation under static loading can mitigate the potential for a flow slide.

It is clear from past earthquakes that damage to structures can be severe, if permanent ground displacements on the order of several feet occur. However, during the Northridge earthquake significant damage to building structures (floor slab and wall cracks) occurred with less than one (1) foot of lateral spread. The complexities of post-liquefaction behavior of soils noted above, coupled with the additional complexities of potential pore water pressure redistribution effects and the nature of earthquake loading on the sliding mass, lead to difficulties in providing specific guidelines for lateral spread evaluations.

Seismically Induced Settlements

Seismic settlement occurs when cohesionless soils densify as result of ground shaking. Typically seismically induced settlement is greatest in loose cohesionless sands. Lee and Albaisa (1974) and Yoshimi (1975) studied the volumetric strains (or settlements) in saturated sands due to dissipation of excess pore pressures generated in saturated granular soils by the cyclic ground motions. The volumetric strain, in the absence of lateral flow or spreading, results in settlement. Liquefaction-induced settlement could result in collapse or partial collapse of a structure, especially if there is significant differential settlement between adjacent structural elements. Even without collapse, significant settlement could result in blocked doors and windows that could trap occupants.

## CONCLUSIONS

1. Based on the results of this investigation and a thorough review of the proposed development, as discussed, the project is suitable for the intended use providing the following recommendations are incorporated into the design and subsequent construction of the project. Also, the development must be performed in an acceptable manner conforming to building code requirements of the controlling governing agency.

2. Based on the State of California Seismic Hazard Maps, the subject site is not located within a liquefaction or earthquake-induced landslide hazard zone.

3. The SITE CLASS based on California Building Code is D.

4. Based upon field observations, laboratory testing and analysis, the alluvium encountered in the exploratory borings should possess sufficient strength to support the proposed seven story apartment building with subgrade parking.

## RECOMMENDATIONS

### Specific

1. The proposed seven story apartment building with subgrade parking should be supported on foundations embedded into alluvium at the proposed subgrade parking elevation.
2. The property owner shall maintain the site as outlined in the Drainage and Maintenance Section.

### Drainage and Maintenance

Maintenance of properties must be performed to minimize the chance of serious damage and/or instability to improvements. Most problems are associated with or triggered by water. Therefore, a comprehensive drainage system should be designed and incorporated into the final plans. In addition, pad areas should be maintained and planted in a way that will allow this

drainage system to function as intended. The property owner shall be fully responsible for dampness or water accumulation caused by alteration in grading, irrigation or installation of improper drainage system, and failure to maintain drain systems. The following are specific drainage, maintenance, and landscaping recommendations. Reductions in these recommendations will reduce their effectiveness and may lead to damage and/or instability to the improvements. It is the responsibility of the property owner to ensure that improvements, structures and drainage devices are maintained in accordance with the following recommendations and the requirements of all applicable government agencies.

Drainage

Positive pad drainage should be incorporated into the final plans. The pad should slope away from the footings at a minimum five percent slope for a horizontal distance of ten feet. In areas where there is insufficient space for the recommended ten foot horizontal distance concrete or other impermeable surface should be provided for a minimum of three feet adjacent the structure. Pad drainage should be at a minimum of two percent slope where water flow over lawn or other planted areas. Drainage swales should be provided with area drains about every fifteen feet. Area drains should be provided in the rear and side yards to collect drainage. All drainage from the pad should be directed so that water does not pond adjacent to the foundations or flow toward them. Roof gutters and downspouts are required for the proposed structures and should be connected into a buried area drain system. All drainage from the site should be collected and directed via non-erosive devices to a location approved by the building official. Area drains, subdrains, weep holes, roof gutters and downspouts should be inspected periodically to ensure that they are not clogged with debris or damaged. If they are clogged or damaged, they should be cleaned out or repaired.

Landscaping (Planting)

The property owner is advised not to develop planter areas between patios, sidewalk and structures. Planters placed immediately adjacent to the structures are not recommended. If planters are proposed immediately adjacent to structures, impervious above-grade or below-grade planter boxes with solid bottoms and drainage pipes away from the structure are suggested. All slopes should be maintained with a dense growth of plants, ground-covering vegetation, shrubs and trees that possess dense, deep root structures and require a minimum of irrigation. Plants surrounding the development should be of a variety that requires a minimum of watering. It is recommended that a landscape architect be consulted regarding planting adjacent to improvements. It will be the responsibility of the property owner to maintain the planting. Alterations of planting schemes should be reviewed by the landscape architect.

Irrigation

An adequate irrigation system is required to sustain landscaping. Over-watering resulting in runoff and/or ground saturation must be avoided. Irrigation systems must be adjusted to account for natural rainfall conditions. Any leaks or defective sprinklers must be repaired immediately. To mitigate erosion and saturation, automatic sprinkling systems must be adjusted for rainy seasons. A landscape architect should be consulted to determine the best times for landscape watering and the proper usage.

Pools/Plumbing

Leakage from a swimming pool or plumbing can produce a perched groundwater condition that may cause instability or damage to improvements. Therefore, all plumbing should be leak-free.

## Grading and Earthwork

Proposed grading will consist of excavation for the subgrade parking and retaining wall backfilling.

## Foundations

It is recommended that the proposed structure be founded into the alluvium at the proposed subgrade parking elevation.

The minimum continuous footing size is (36) inches wide and (24) inches deep into the competent alluvium, measured from the lowest adjacent grade. Continuous footings may be proportioned, using a bearing value of (2500) pounds per square foot. Column footings placed into the competent alluvium may be proportioned, using a bearing value of (3000) pounds per square foot, and should be a minimum of (3) feet in width and (24) inches deep, below the lowest adjacent grade. The allowable bearing capacity may be increased by 20% for each additional foot of width or depth to a maximum of (4000) pounds per square foot.

All continuous footings shall be reinforced with a minimum of (4) #(5) bars, two placed near the top and two near the bottom. Reinforcing recommendations are minimums and may be revised by the structural engineer.

The bearing values given above are net bearing values; the weight of concrete below grade may be neglected. These bearing values may be increased by one-third (1/3) for temporary loads, such as, wind and seismic forces.

Lateral loads may be resisted by friction at the base of the conventional foundations and by passive resistance within the alluvium. A coefficient of friction of (0.4) may be used between the foundations and the alluvium. The passive resistance may be assumed to act as a fluid with a density of (300) pounds per cubic foot.

All footing excavation depths will be measured from the lowest adjacent grade of recommended bearing material. Footing depths will not be measured from any proposed elevations or grades. Any foundation excavations that are not the recommended depth into the recommended bearing materials will not be acceptable to this office.

## Settlement

Settlement of the proposed apartment building with subgrade parking will occur. Settlement of (1/2) to (3/4) inches between walls, within 20 feet or less, of each other, and under similar loading conditions, are considered normal. Total settlement on the order of (1) inches should be anticipated.

**Expansive Soils**

Expansive soils were not encountered on the subject property. Expansive soils can be a problem, as variation in moisture content will cause a volume change in the soil. Expansive soils heave when moisture is introduced and contract as they dry. During inclement weather and/or excessive landscape watering, moisture infiltrates the soil and causes the soil to heave (expansion). When drying occurs the soils will shrink (contraction). Repeated cycles of expansion and contraction of soils can cause pavement, concrete slabs on grade and foundations to crack. This movement can also result in misalignment of doors and windows. To reduce the effect of expansive soils, foundation systems are usually deepened and/or provided with additional reinforcement design by the structural engineer. Planning of yard improvements should take into consideration maintaining uniform moisture conditions around structures. Soils should be kept moist, but water should not be allowed to pond. These designs are intended to reduce, but will not eliminate deflection and cracking and do not guarantee or warrant that cracking will not occur.

**Excavations**

Excavations ranging in vertical height up to 14 feet will be required for the subgrade parking. Conventional excavation equipment may be used to make these excavations. Excavations should expose alluvium. These soils should be shored. This should be verified by the project geotechnical engineer during construction so that modifications can be made if variations in the soil occur.

Temporary Shoring

The following information on the design and installation of the shoring is as complete as possible at this time. It is suggested that a review of the final shoring plans and specifications be made by this office prior to bidding or negotiating with a shoring contractor be made.

One method of shoring would consist of steel soldier piles, placed in drilled holes and backfilled with concrete. The soldier piles may be designed as cantilevers or laterally braced utilizing drilled tie-back anchors or raker braces.

Soldier Piles

Drilled cast-in-place soldier piles should be placed no closer than 2 diameters on center. The minimum diameter of the piles is 18 inches. Structural concrete should be used for the soldier piles below the excavation; lean-mix concrete may be employed above that level. As an alternative, lean-mix concrete may be used throughout the pile where the reinforcing consists of a wideflange section. The slurry must be of sufficient strength to impart the lateral bearing pressure developed by the wideflange section to the earth materials. For design purposes, an allowable passive value for the earth materials below the bottom plane of excavation may be assumed to be 300 pounds per square foot per foot. The allowable passive value may be doubled for isolated piles, spaced a minimum of 2 times the pile diameter. To develop the full lateral value, provisions should be implemented to assure firm contact between the soldier piles and the undisturbed earth materials.

The frictional resistance between the soldier piles and retained earth material may be used to resist the vertical component of the anchor load. The coefficient of friction may be taken as 0.4 based on uniform contact between the steel beam and lean-mix concrete and retained earth. The portion of soldier piles below the plane of excavation may also be employed to resist the downward loads. The downward capacity may be determined using a frictional resistance of 450 pounds per square foot. The minimum depth of embedment for shoring piles is 5 feet below the bottom of the footing excavation, or 7 feet below the bottom of excavated plane, whichever is deeper.

Casing may be required should caving be experienced in the sandy earth materials. If casing is used, extreme care should be employed so that the pile is not pulled apart as the casing is withdrawn. At no time should the distance between the surface of the concrete and the bottom of the casing be less than 5 feet.

Lagging

Due to the cohesionless nature of the soil and fill materials, it is anticipated that lagging will be required for the soil and fill. It is recommended that the lagging be installed and slurry backfilled the same day as excavation.

Soldier piles and anchors should be designed for the full anticipated pressures. Due to arching in the earth materials, the pressure on the lagging will be less. It is recommended that the lagging be designed for the full design pressure but be limited to a maximum of 400 pounds per square foot.

Lateral Pressures

A triangular distribution of lateral earth pressure should be utilized for the design of cantilevered shoring system. A trapezoidal distribution of lateral earth pressure would be appropriate where shoring is to be restrained at the top by bracing or tie backs. The design of trapezoidal distribution of pressure is shown in a diagram in the “Retaining Wall” section of this report. Equivalent fluid pressures for the design of cantilevered and restrained shoring are presented in the following table:

| Height of Shoring (feet) | Cantilever Shoring System Equivalent Fluid Pressure (pcf) Triangular Distribution of Pressure | Restrained Shoring System Lateral Earth Pressure (psf)* Trapezoidal Distribution of Pressure |
|---|---|---|
| 14 feet | 36 pcf | 24H psf |

*Where H is the height of the shoring in feet.

Where a combination of sloped embankment and shoring is utilized, the pressure will be greater and must be determined for each combination. Additional active pressures should be applied where the shoring will be surcharged by adjacent traffic or structures.

Tied-Back Anchors

Tie-back anchors may be used to resist lateral loads. The sandy nature soils and gravels and cobbles may make drilling of tie backs may be difficult due to potential caving and cobbles. Friction anchors consisting of high stress thread bars are recommended. For design purposes, it may be assumed that the active wedge adjacent to the shoring is defined by a plane drawn 35 degrees with the vertical through the bottom plane of the excavation. Friction anchors should extend a minimum of 20 feet beyond the potentially active wedge and to greater lengths if necessary to develop the desired capacities.

Drilled friction anchors may be designed for a skin friction of 300 pounds per square foot. Pressure grouted anchor may be designed for a skin friction of 2,000 pounds per square foot. Where belled anchors are utilized, the capacity of belled anchors may be designed by assuming the diameter of the bonded zone is equivalent to the diameter of the bell. Only the frictional resistance developed beyond the active wedge would be effective in resisting lateral loads. Anchors should be placed at least 6 feet on center to be considered isolated.

It is recommended that at least 3 of the initial anchors have their capacities tested to 200 percent of their design capacities for a 24-hour period to verify their design capacity. The total deflection during the 24-hour 200 percent test should not exceed 12 inches. During the 24-hour tests, the anchor deflection should not exceed 0.75 inches measured after the 200 percent test load is applied.

All anchors should be tested to at least 150 percent of design load. The total deflection during this test should not exceed 12 inches. The rate of creep under the 150 percent test load should not exceed 0.1 inch over a 15 minute period in order for the anchor to be approved for the design loading.

After a satisfactory test, each anchor should be locked-off at the design load. This should be verified by rechecking the load in the anchor. The load should be within 10 percent of the design load. Where satisfactory tests are not attained, the anchor diameter and/or length should be increased or additional anchors be installed until satisfactory test results are obtained. The installation and testing of the anchors should be observed by a representative of this firm. Minor caving during drilling of the anchors should be anticipated.

Raker Braces

The proposed soldier piles may be laterally supported by raker braces supported by temporary footings, or dead-men. Temporary footings inclined at an angle of 45 degrees to the horizontal may be designed for an allowable bearing value of 1500 psf. To utilize this allowable bearing pressure, the inclined footings should be a minimum of 24 inches in width, and should be embedded a minimum of 24 inches below the lowest adjacent grade. An increase of 300 pounds per square foot may be utilized for each additional foot of width.

Deflection

It is difficult to accurately predict the amount of deflection of a shored embankment. It should be realized that some deflection will occur. It is estimated that the deflection could be on the order of one-half inch at the top of the shored embankment. If greater deflection occurs during construction, additional bracing may be necessary to minimize settlement of adjacent buildings and utilities in adjacent streets and alleys. If desired to reduce the deflection, a greater active pressure could be used in the shoring design. Where internal bracing is used, the rakers should be tightly wedged to minimize deflection. The proper installation of the raker braces and the wedging will be critical to the performance of the shoring.

Monitoring

Because of the depth of the excavation, some mean of monitoring the performance of the shoring system is suggested. The monitoring should consist of periodic surveying of the lateral and vertical locations of the tops of all soldier piles and the lateral movement along the entire lengths of selected soldier piles. Also, some means of periodically checking the load on selected anchors will be necessary, where applicable.

Shoring Observations

It is critical that the installation of shoring is observed by a representative of this office. Many building officials require that shoring installation should be performed during the continuous observations of the geotechnical engineer. The observations are made so that modifications of the recommendations can be made if variations in the earth material or groundwater conditions occur. Also the observations will allow for a report to be prepared on the installation of shoring for the use of the local building official.

## Excavations Maintenance – Erosion Control

The following recommendations should be considered a part of the excavation/erosion control plan for the subject site and are intended to supplement, but not supersede nor limit the erosion control plans produced by the Project Civil Engineer and/or Qualified SWPPP Developer. These recommendations should be implemented during periods required by the Building Code (typically between the months of October and April) or at any time of the year prior to a predicted rain event. Consideration should also be given to potential local sources of water/runoff such as existing drainage pipes or irrigation systems that remain in operation during construction activities.

Open Excavations:

All open excavations shall be protected from inclement weather, including areas above and at the toe of the excavation. This is required to keep the excavations from becoming saturated. Saturation of the excavation may result in a relaxation of the soils which may result in failures. Water/runoff should be diverted away from the excavation and not be allowed to flow over the excavation in a concentrated manner.

Open Trenches/Foundation Excavations:

No water should be allowed to pond adjacent to or flow into open trenches. All open trenches shall be covered with plastic sheeting that is anchored with sandbags. Areas around the trenches should be sloped away from the trenches to prevent water runoff from flowing into or ponding adjacent to the trenches.

After the inclement weather has ceased, the excavations shall be reviewed by the project geotechnical engineer and geologist for safety prior to recommencement of work. Foundation excavations that remain open during inclement weather shall be reviewed by the project geotechnical engineer and geologist prior to the placement of steel and concrete to ensure that proper embedment and contact with the bearing material have been maintained.

Open Pile/Caisson Excavations:

All pile/caisson excavations should be reviewed and poured prior to the onset of inclement weather. It is not recommended that any pile/caisson excavations remain open through any inclement weather. However, if it is necessary to leave pile/caisson excavations open during inclement weather, all water and runoff shall be diverted away from and prevented from entering the pile/caisson excavations. Pile/caisson excavations that remain open during inclement weather shall be reviewed by the project geotechnical engineer and geologist prior to the placement of steel and concrete to ensure that proper embedment has been maintained. The base of all end-bearing caissons shall be re-cleaned to ensure contact with the proper bearing material. All stockpiled cuttings from the pile borings shall be removed.

## Retaining Walls

Cantilever retaining walls should be designed to resist an active earth pressure such as that exerted by compacted backfill. Retaining walls up to 11 feet in height may be designed per the following table. The ‘active’ pressure assumes that the wall will be allowed to deflect 0.01H to 0.02H. Basement walls and other walls where horizontal movement is restricted at the top or not allowed to deflect shall be designed for at-rest pressure.

| Surface Slope of Retained Material Horizontal to Vertical | Active Equivalent Fluid Weight p.c.f. | At-Rest Pressure Fluid Weight p.c.f. |
|---|---|---|
| Level | 48 | 65 |

In addition to lateral earth pressure, these retaining walls should be designed to resist the surcharge imposed by the proposed structures, footings, any adjacent buildings, or by adjacent traffic surcharge, per the attached figures 11 and 12 obtained from the Naval Facilities Engineering Command, Design Manual 7.02 (Foundation and Earth Structures, pages 74 and 75).

The wall pressure stated assumes that the wall has been backfilled as outlined below with a permanent drainage system. Proper compaction of the backfill is recommended to provide lateral support to adjacent properties. Even with proper compaction of required backfill, settlement of the backfill may occur. Accordingly, utility lines, footings, slabs, or falsework should be planned and designed to accommodate potential settlement.

Walls to be backfilled must be reviewed by the project Geotechnical Engineer prior to commencement of the backfilling operation.

1. Adequate permanent drainage is required behind the wall to minimize the buildup of hydrostatic pressures. A perforated pipe, with perforations placed down, shall be installed at the base of the wall footing. The pipe shall be encased in at least one foot (1') of three-quarter inch (3/4") gravel. The pipe shall exit from behind the retaining wall and drain to a location approved by the architect or civil engineer.

   When space does not permit the installation of standard pipe and gravel drainage system, i.e. walls adjacent the property line, a flat drainage product is acceptable subject to approval of the governing agency. It is recommended that a drainage composite geotextile (such as MiraDrain / QuickDrain) be placed at the base of the proposed retaining wall. The drainage composite geotextile will provide comparable drainage to the conventional four inch perforated pipe encased in gravel per Code Sections 1805.4.2 and 1805.4.3

   If a drainage system is not provided the walls should be designed to resist an external hydrostatic pressure due to water in addition to the lateral earth pressure in Retaining Wall section. The entire wall should be design for full hydrostatic pressure based on a water level at the ground surface. In addition, floors would need to be designed for hydrostatic uplift and waterproofed.

2. A continuous vertical drain, consisting of a gravel blanket six inches (6") thick or geotextile vertical drainage system, shall be placed along the back side of the wall to within 2 feet of the ground surface.

3. Water and moisture affecting retaining walls is a common post-construction complaint. Poorly applied or omitted waterproofing can lead to standing water inside the building or efflorescence on the wall.

   It is recommended that the retaining walls be waterproofed. Waterproofing design and inspection of installation is not the responsibility of the geotechnical engineer. GeoConcepts, Inc. does not practice in the field of water and moisture vapor transmission evaluation/mitigation. Therefore, we recommend that a qualified person/firm be engaged/consulted to evaluate the general and specific water and moisture vapor transmission paths and any impact on the proposed development. This person/firm should provide recommendations for mitigation of potential adverse impact of water and moisture vapor transmission on various components of the structure as deemed necessary. The actual waterproofing design shall be provided by the architect, structural engineer or contractor with experience in waterproofing.

4. After the wall backdrain system has been placed and the waterproofing installed, fill may be placed, if sufficient room allows, in layers not exceeding four inches (4") in thickness and compacted to 90 percent of the maximum density, as determined by ASTM D 1557. Where cohesionless soil having less than (15) percent finer than (0.005) millimeters is used for fill,

the fill material shall be compacted to a minimum of (95) percent of the maximum dry density.

5. Where space does not permit compaction of material behind the wall (<24 inches wide), a granular backfill shall be used. This granular backfill shall consist of one-half inch (1/2") to three-quarter inch (3/4") crushed rock and should be densified by tamping into place. The crushed rock backfill should not exceed a depth of ten feet.
6. All granular free-draining wall backfills shall be capped with a clayey compacted soil within the upper two feet (2') of the wall backfill. This compacted material should start below the required wall freeboard.

Lateral Earth Pressure Due to Earth Motion

Retaining walls should be designed to resist an active earth pressure due to earth motion, if required by the building official, distributed as a triangle pressure. Retaining walls up to 11 feet in height may be designed per the following table. The seismic equivalent fluid pressure is in addition to static earth pressures. The seismic loading is based on a horizontal acceleration coefficient of 0.27.

| Surface Slope of Retained Material Horizontal to Vertical | Seismically Induced Earth Pressure - Equivalent Fluid Weight p.c.f. |
|---|---|
| Level | 8 |

## Slabs on Grade

Slabs on grade should be reinforced with minimum #4 reinforcing bars, placed at (16) inches on center each way and supported on competent alluvium. Provisions for cracks should be incorporated into the design and construction of the foundation system, slabs, and proposed floor coverings. Concrete slabs should have sufficient control joints spaced at a maximum of approximately 8 feet. These recommendations are considered minimums unless superseded by the project structural engineer.

It is recommended that a vapor retarder/waterproofing be placed below the concrete slab on grade. Vapor/moisture transmission through slabs does occur and can impact various components of the structure.

Vapor retarder/waterproofing design and inspection of installation is not the responsibility of the geotechnical engineer (most often the responsibility of the architect). GeoConcepts, Inc. does not practice in the field of water and moisture vapor transmission evaluation/mitigation. Therefore, we recommend that a qualified person/firm be engaged/consulted to evaluate the general and specific water and moisture vapor transmission paths and any impact on the proposed development. This person/firm should provide recommendations for mitigation of potential adverse impact of water and moisture vapor transmission on various components of the structure as deemed necessary. The actual waterproofing design shall be provided by the architect, structural engineer or contractor with experience in waterproofing

In order to promote good building practices and alert the rest of the design/construction team of some of the appropriate standards and expert recommendations pertaining to vapor barriers/retarders, the waterproofing designer should consider recommending and citing specific performance characteristics. The following paragraph includes some of the standards and expert recommendations and should be considered for use waterproofing designer own recommendations:

*Vapor barrier shall consist of a minimum 15 mil extruded polyolefin plastic (no recycled content or woven materials permitted). Permeance as tested before and after mandatory conditions (ASTM E 1745 Section 7.1 and Sub-Paragraph 7.1.1-7.1.5): less than 0.01 perms [grains/(ft$^2$-hr-inHg)] and comply with the ASTM E 1745 Class A requirements. Install vapor barrier according to ASTM E1643, including proper perimeter seal. Basis of design: Stego Wrap Vapor Barrier 15 mil and Stego Crete Claw Tape (perimeter seal tape). Approved Alternatives: Vaporguard by Reef Industries, Sundance 15 mil Vapor Barrier by Sundance Inc.*

## Decking

Exterior decking slabs on grade should be reinforced with minimum #4 reinforcing bars, placed at (16) inches on center each way and supported on competent alluvium. Provisions for cracks should be incorporated into the design and construction of the decking. Concrete slabs should have sufficient control joints spaced at a maximum of approximately 8 feet. Decking planned adjacent to lawns, planters or adjacent to descending slopes should be provided with a 12-inch thickened edge. The deck reinforcement should be bent down into the edge. These recommendations are considered minimums unless superseded by the project structural engineer.

# REVIEWS

## Plan Review and Plan Notes

The final grading, building, and/or structural plans shall be reviewed and approved by the consultants to ensure that all recommendations are incorporated into the design or shown as notes on the plan.

The final plans should reflect the following:

1. The Preliminary Geotechnical Engineering Investigation by GeoConcepts, Inc. is a part of the plans.

2. Plans must be reviewed and signed by GeoConcepts, Inc.

3. The project geotechnical engineer must review all grading.

4. The project geotechnical engineer shall review all foundations.

**Construction Review**

Reviews will be required to verify all geotechnical work. It is required that all footing excavations, seepage pits, and grading be reviewed by this office. This office should be notified at least **two working days** in advance of any field reviews so that staff personnel may be made available.

The property owner should take an active role in project safety by assigning responsibility and authority to individuals qualified in appropriate construction safety principles and practices. Generally, site safety should be assigned to the general contractor or construction manager that is in control of the site and has the required expertise, which includes but not limited to construction means, methods and safety precautions.

## LIMITATIONS

**General**

This report is intended to be used only in its entirety. No portion or section of the report, by itself, is designed to completely represent any aspect of the project described herein. If any reader requires additional information or has questions regarding this report, GeoConcepts, Inc. should be contacted.

Subsurface conditions were interpreted on the basis of our field explorations and past experience. Although, between exploratory excavations, subsurface earth materials may vary in type, strength and many other properties from those interpreted. The findings, conclusions and recommendations presented herein are for the soil conditions encountered in the specific locations. Earth materials and conditions immediately adjacent to, or beneath those observed may have different characteristics, such as, earth type, physical properties and strength. Other soil conditions due to non-uniformity of the soil conditions or manmade alterations may be revealed during construction. If subsurface conditions differ from those encountered in the described exploration, this office should be advised immediately so that further recommendations may be made if required. If it is desired to minimize the possibility of such changes, additional explorations and testing can/should be performed.

Findings, conclusions and recommendations presented herein are based on experience and background. Therefore, findings, conclusions and recommendations are professional opinions and are not meant to indicate a control of nature.

Expansive soils were not encountered on the subject property. Design for foundations, slabs on grade, and retaining walls have been provided to mitigate this soil condition. These designs do not guarantee or warrant that cracking will not occur.

This preliminary report provides information regarding the findings on the subject property. It is not designed to provide a guarantee that the site will be free of hazards in the future, such as but not limited to, landslides, slippage, liquefaction, expansive soils, differential settlement, debris flows, seepage, concentrated drainage or flooding. It may not be possible to eliminate all hazards, but homeowners must maintain their property and improve deficiencies to minimize these hazards.

**This report may not be copied. If you wish to purchase additional copies, you may order them from this office.**

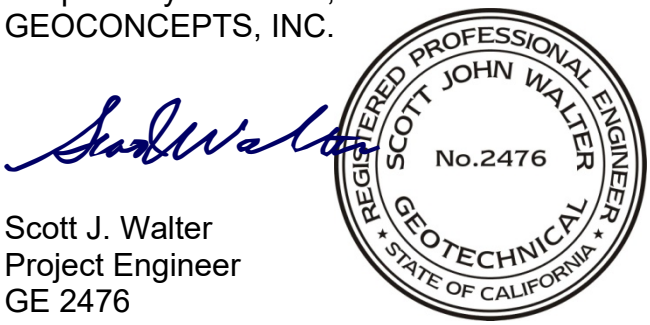
## CONSTRUCTION NOTICE

Construction can be challenging. GeoConcepts, Inc. has provided this report to advise you of the general site conditions, geotechnical feasibility of the proposed project, and overall site stability. It must be understood that the professional opinions provided herein are based upon subsurface data, laboratory testing, analyses, and interpretation thereof. Recommendations contained herein are based upon surface reconnaissance and minimum subsurface explorations deemed suitable by your consultants.

Although quantities for foundation concrete and steel may be estimated based on the findings provided in this report, provision should be made for possible changes in quantities during construction. If it is desired to minimize the possibility of such changes, additional exploration and testing should be considered. However, you must be aware that depths and magnitudes will most likely vary between explorations given in the report.

We appreciate the opportunity of serving you on this project. If you have any questions concerning this report, please contact the undersigned.

Respectfully submitted,
GEOCONCEPTS, INC.




Scott J. Walter
Project Engineer
GE 2476
SJW/KNC: 5266 - 1

Distribution: (3) Addressee

# APPENDIX I

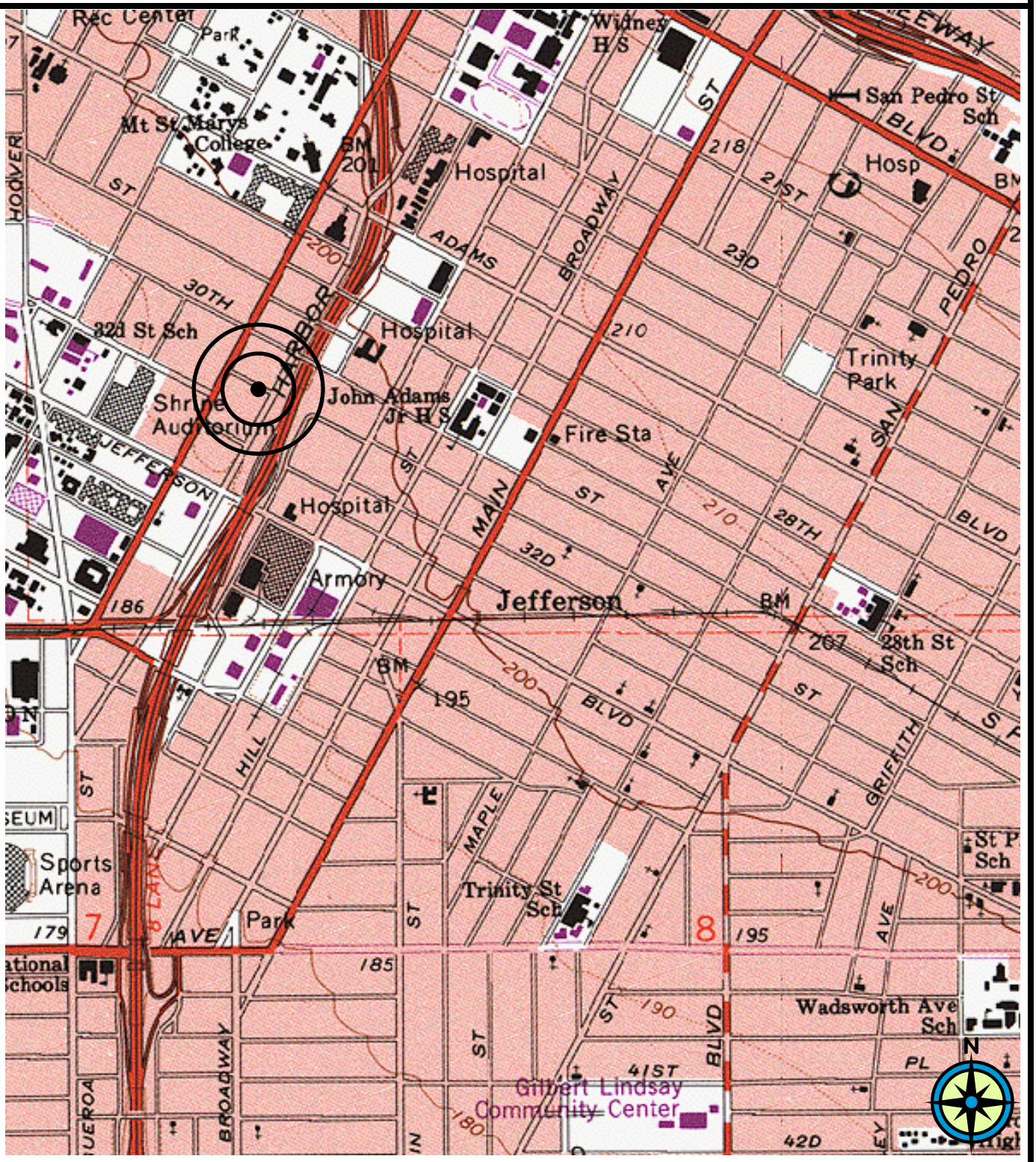
## SITE INFORMATION

Location Map
Groundwater Map
USGS Fault Map
Seismic Hazard Map

Plot Map
Cross Sections

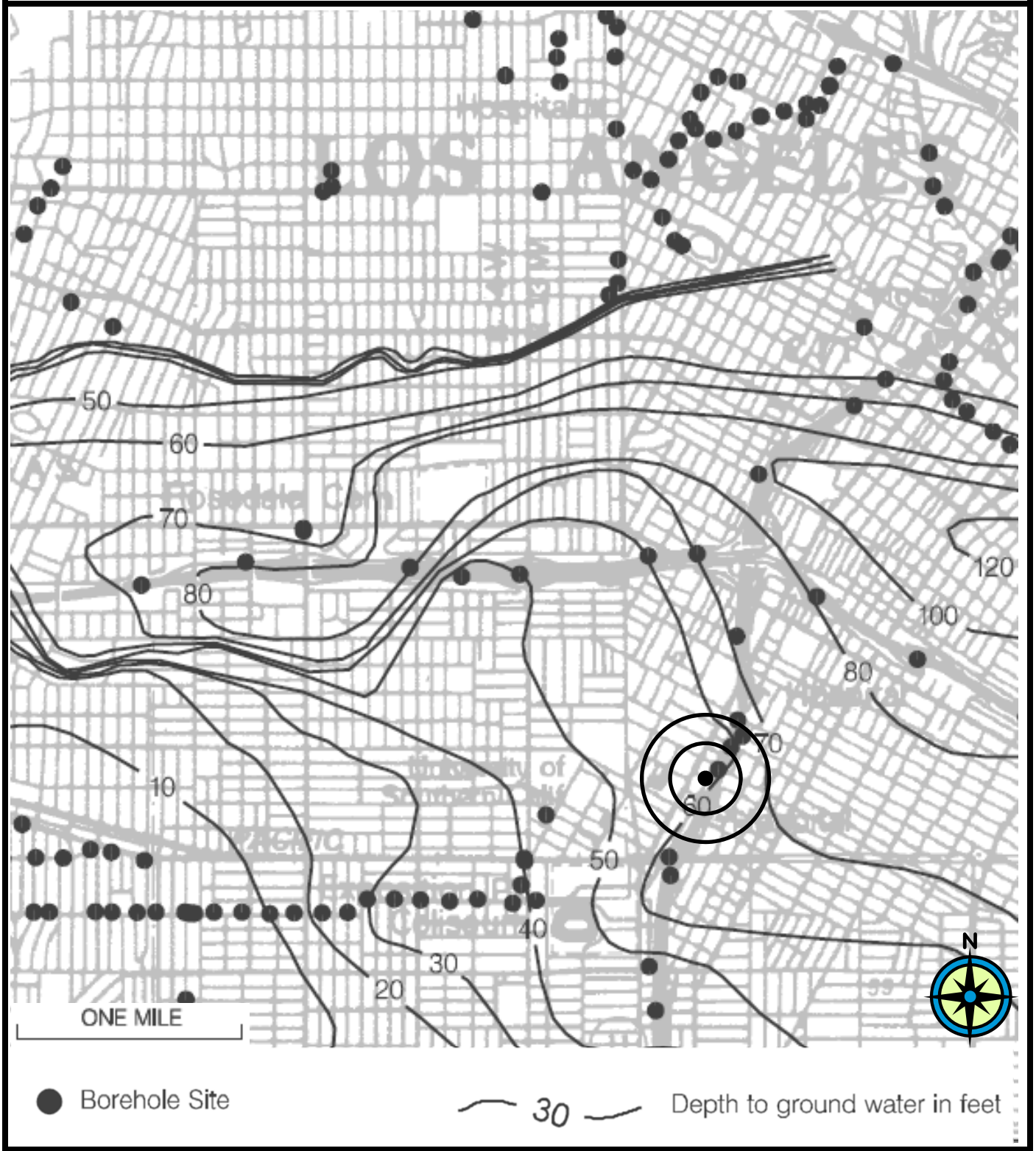
Field Exploration
Exploration Logs 1 through 9
Borings 1 through 4

# LOCATION MAP



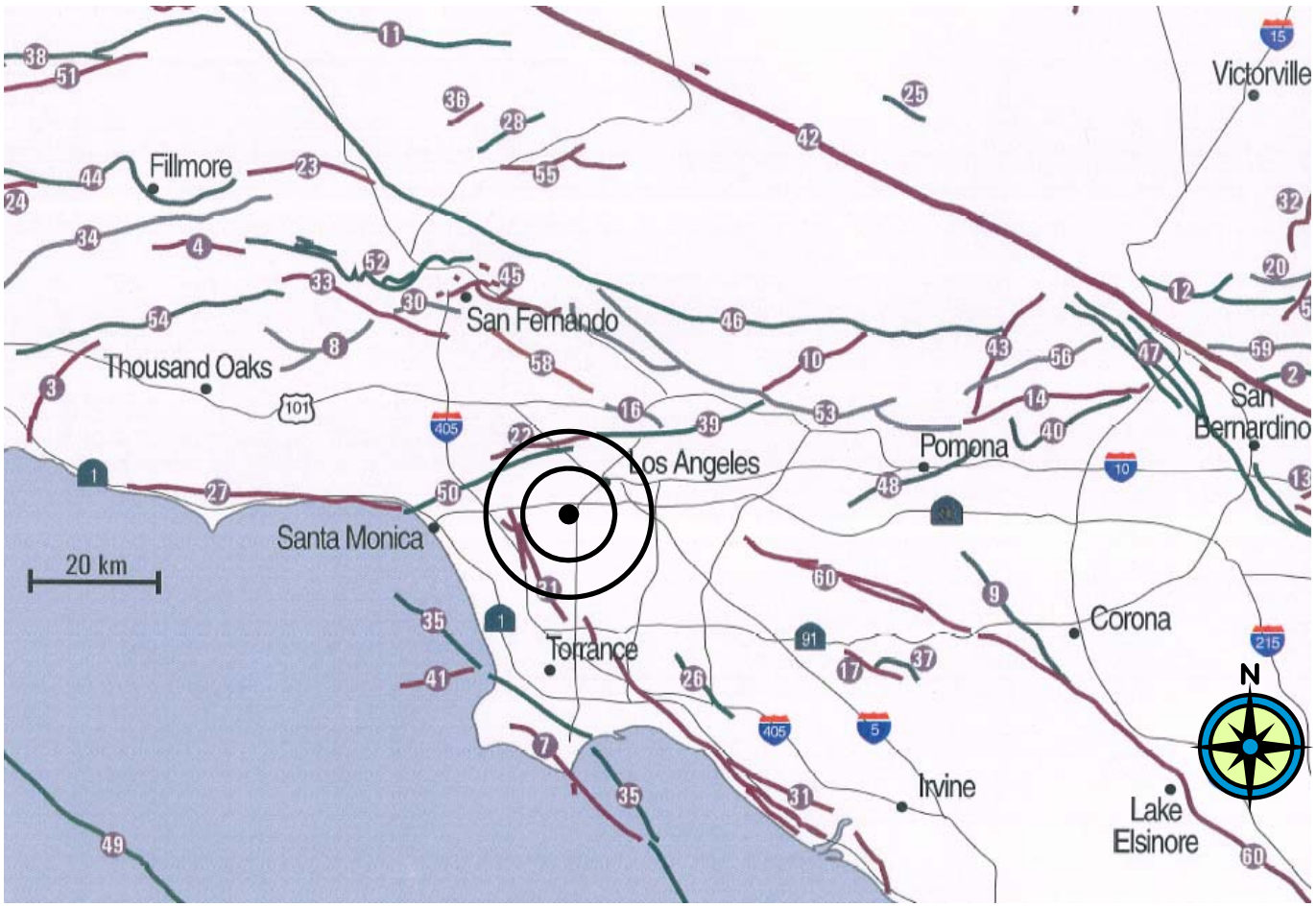

| Reference: | TOPO! | |
|---|---|---|

# GROUNDWATER MAP




| Reference: | State of California Seismic Hazard Report, Hollywood Quadrangle | Scale: As Shown |
|---|---|---|

# USGS FAULT MAP

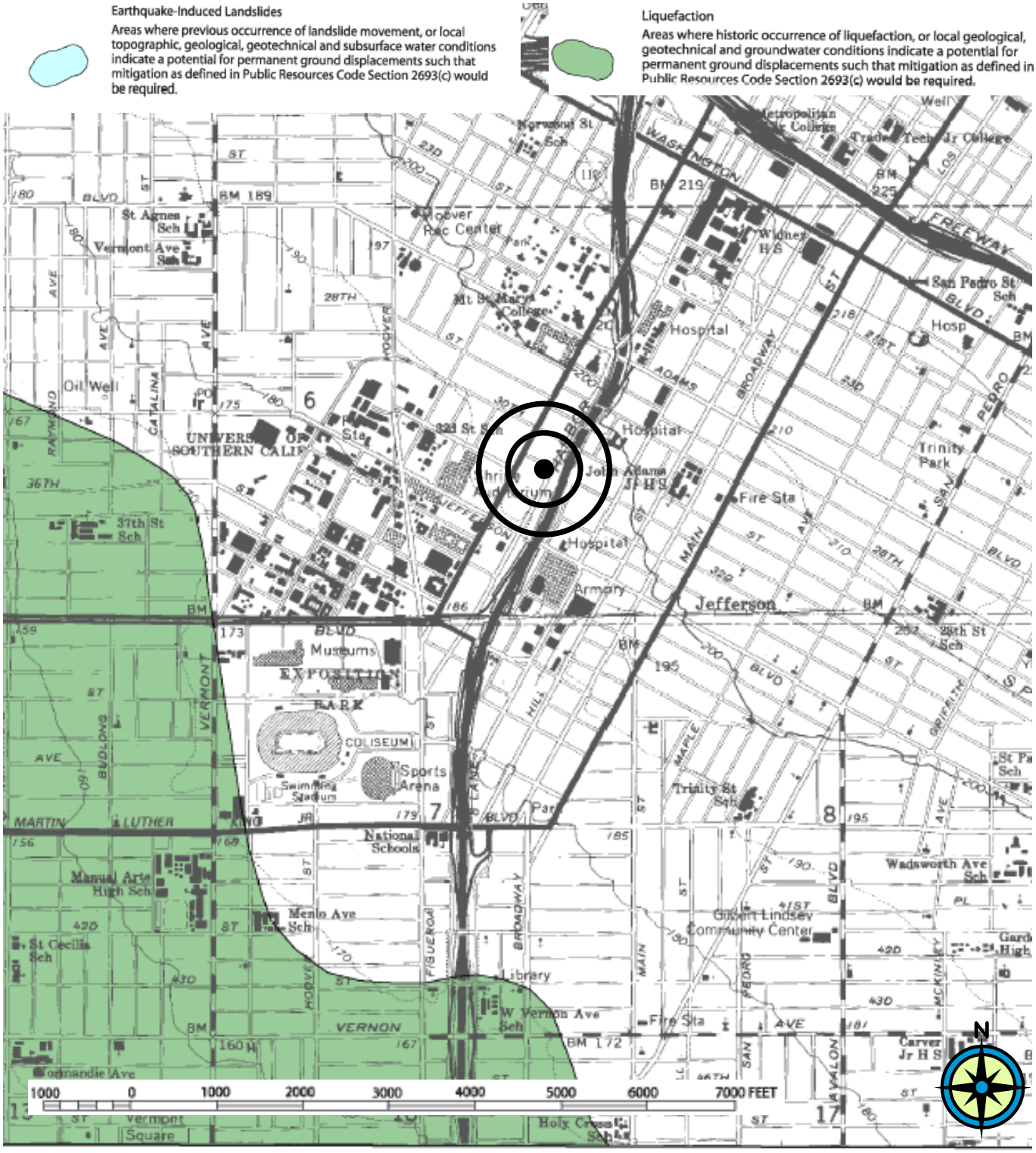



Lisa Wald, U.S. Geologic Survey (modified from SCEC).

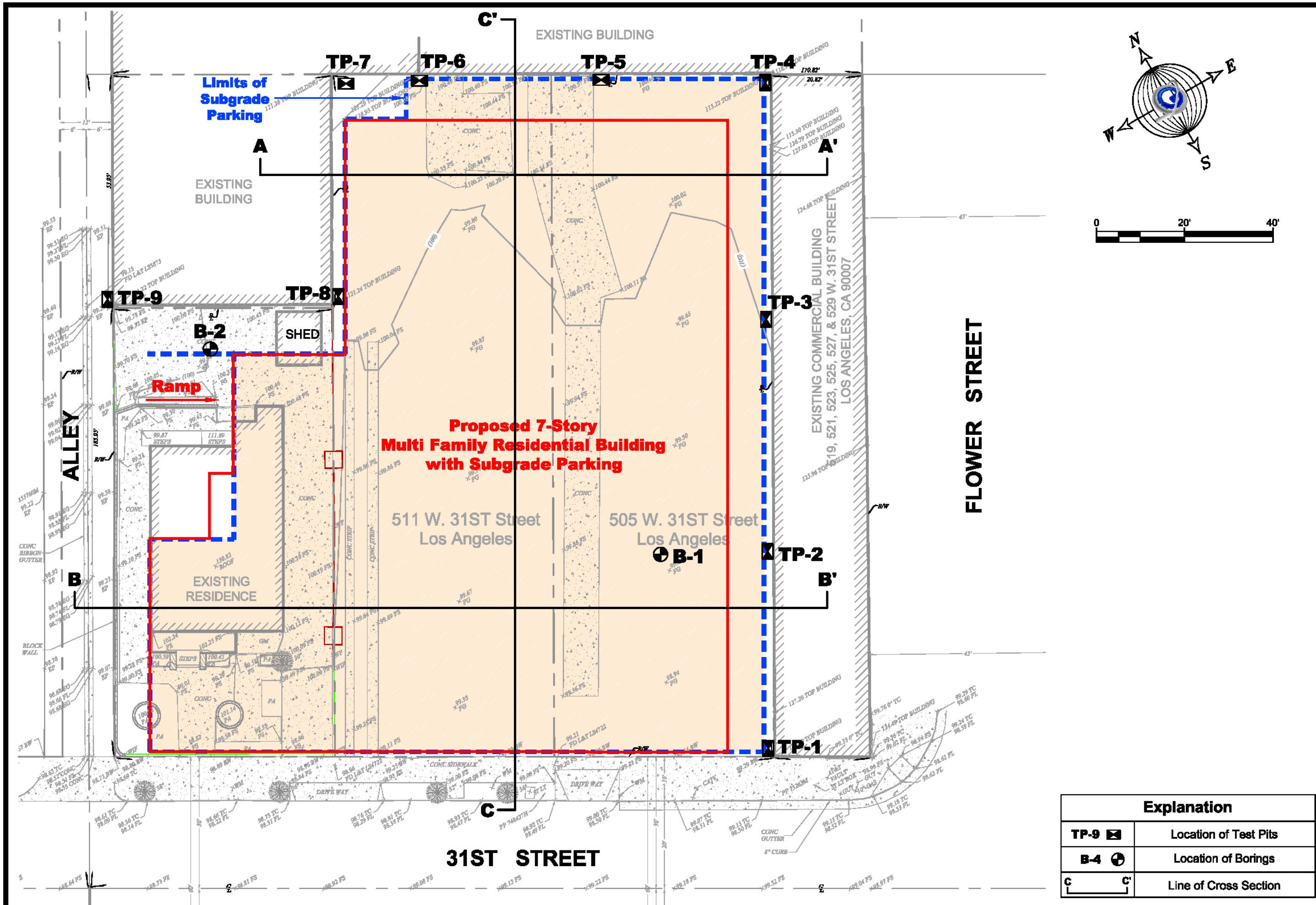
1 Alamo thrust
2 Arrowhead fault
3 Bailey fault
4 Big Mountain fault
5 Big Pine fault
6 Blake Ranch fault
7 Cabrillo fault
8 Chatsworth fault
9 Chino fault
10 Clamshell-Sawpit fault
11 Clearwater fault
12 Cleghorn fault
13 Crafton Hills fault zone
14 Cucamonga fault zone
15 Dry Creek
16 Eagle Rock fault
17 El Modeno
18 Frazier Mountain thrust
19 Garlock fault zone
20 Grass Valley fault
21 Helendale fault
22 Hollywood fault
23 Holser fault
24 Lion Canyon fault
25 Llano fault
26 Los Alamitos fault
27 Malibu Coast fault
28 Mint Canyon fault
29 Mirage Valley fault zone
30 Mission Hills fault
31 Newport Inglewood fault zone
32 North Frontal fault zone
33 Northridge Hills fault
34 Oak Ridge fault
35 Palos Verdes fault zone
36 Pelona fault
37 Peralta Hills fault
38 Pine Mountain fault
39 Raymond fault
40 Red Hill (Etiwanda Ave) fault
41 Redondo Canyon fault
42 San Andreas Fault
43 San Antonio fault
44 San Cayetano fault
45 San Fernando fault zone
46 San Gabriel fault zone
47 San Jacinto fault
48 San Jose fault
49 Santa Cruz-Santa Catalina Ridge f.z.
50 Santa Monica fault
51 Santa Ynez fault
52 Santa Susana fault zone
53 Sierra Madre fault zone
54 Simi fault
55 Soledad Canyon fault
56 Stoddard Canyon fault
57 Tunnel Ridge fault
58 Verdugo fault
59 Waterman Canyon fault
60 Whittier fault

| | |
|---|---|
| Reference: | U. S. G. S: active fault (red) and potentially active fault (green) |

# SEISMIC HAZARD MAP




| Reference: | State of California, Seismic Hazard Map of the Hollywood Quadrangle | Scale As Shown |
|---|---|---|




| Explanation | |
|---|---|
| TP-9 | Location of Test Pits |
| B-4 | Location of Borings |
| C — C' | Line of Cross Section |

Date: Jan. 2017

Scale: 1" = 20'

Job No. 5266-1

Project Address: 505, 511 & 517 West 31st Street
Los Angeles, California

Description: Plot Map

Survey By: GeoWorks
Architectural Design By: Hochhauser Blatter

GeoConcepts INC
Geology - Geotechnical Engineering
14428 Hamlin Street, Suite 200, Van Nuys, CA 91401
Ph (818) 994-8895 | Fax (818) 994-8599 | www.GeoConceptsInc.com

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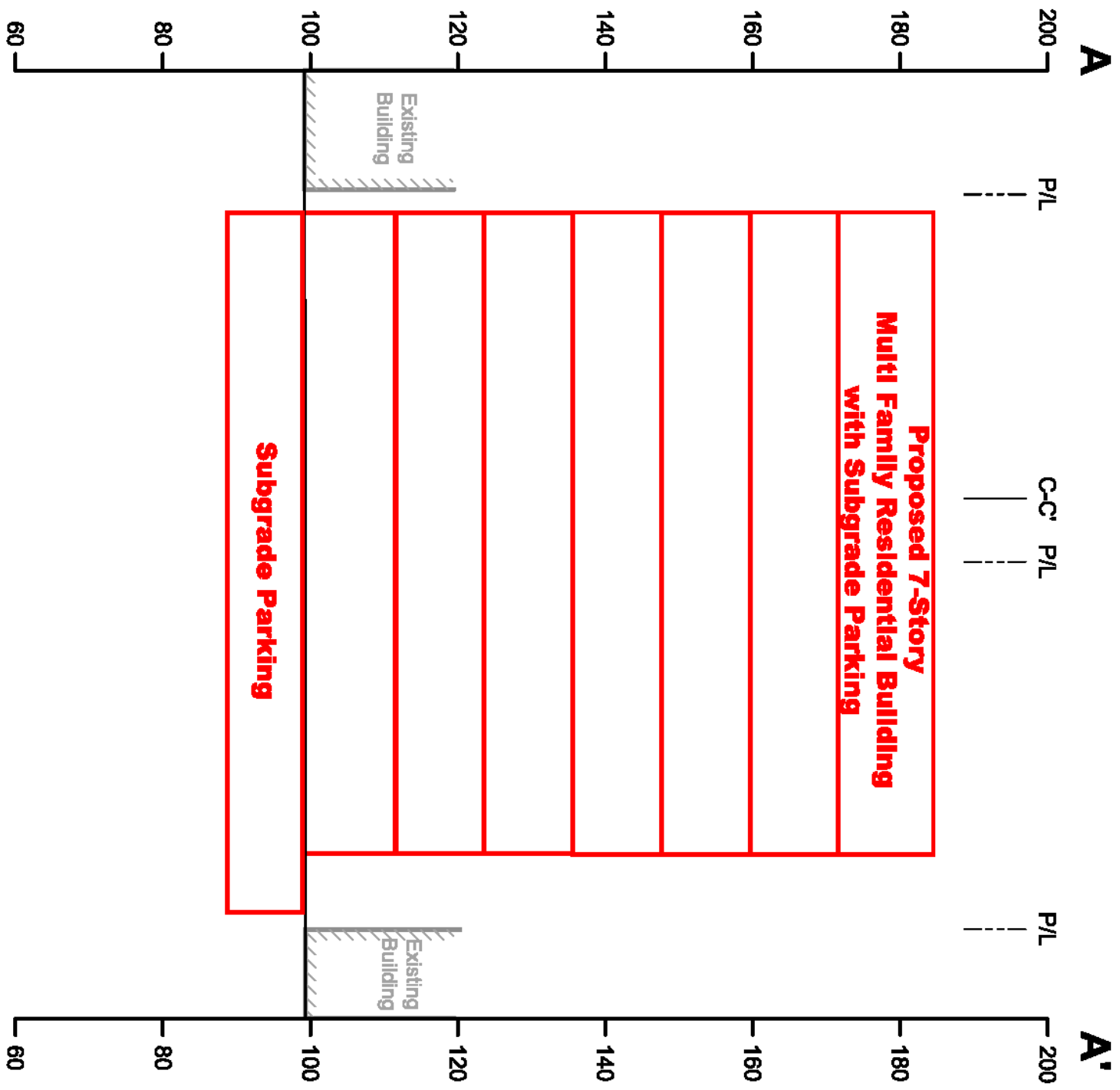


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Description:
**Cross Section A-A'**

Project Address:
505, 511 & 517 West 31st Street
Los Angeles, California

Date: Jan. 2017
Scale: 1" = 20'
Job No. 5266-1

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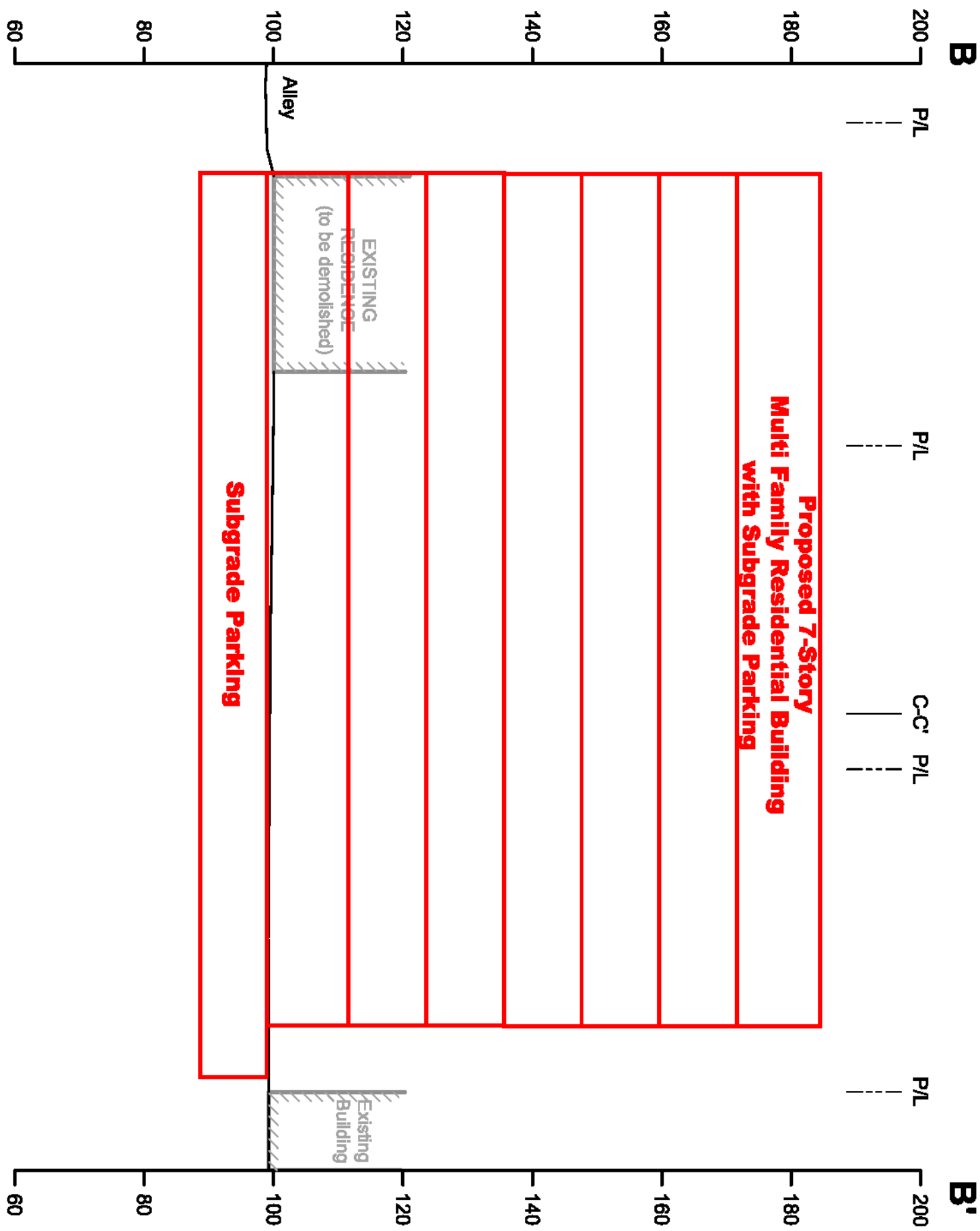


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Description:

**Cross Section B-B'**

Project Address:

505, 511 & 517 West 31st Street
Los Angeles, California

| | |
|---|---|
| Date: | Jan. 2017 |
| Scale: | 1" = 20' |
| Job No. | 5266-1 |

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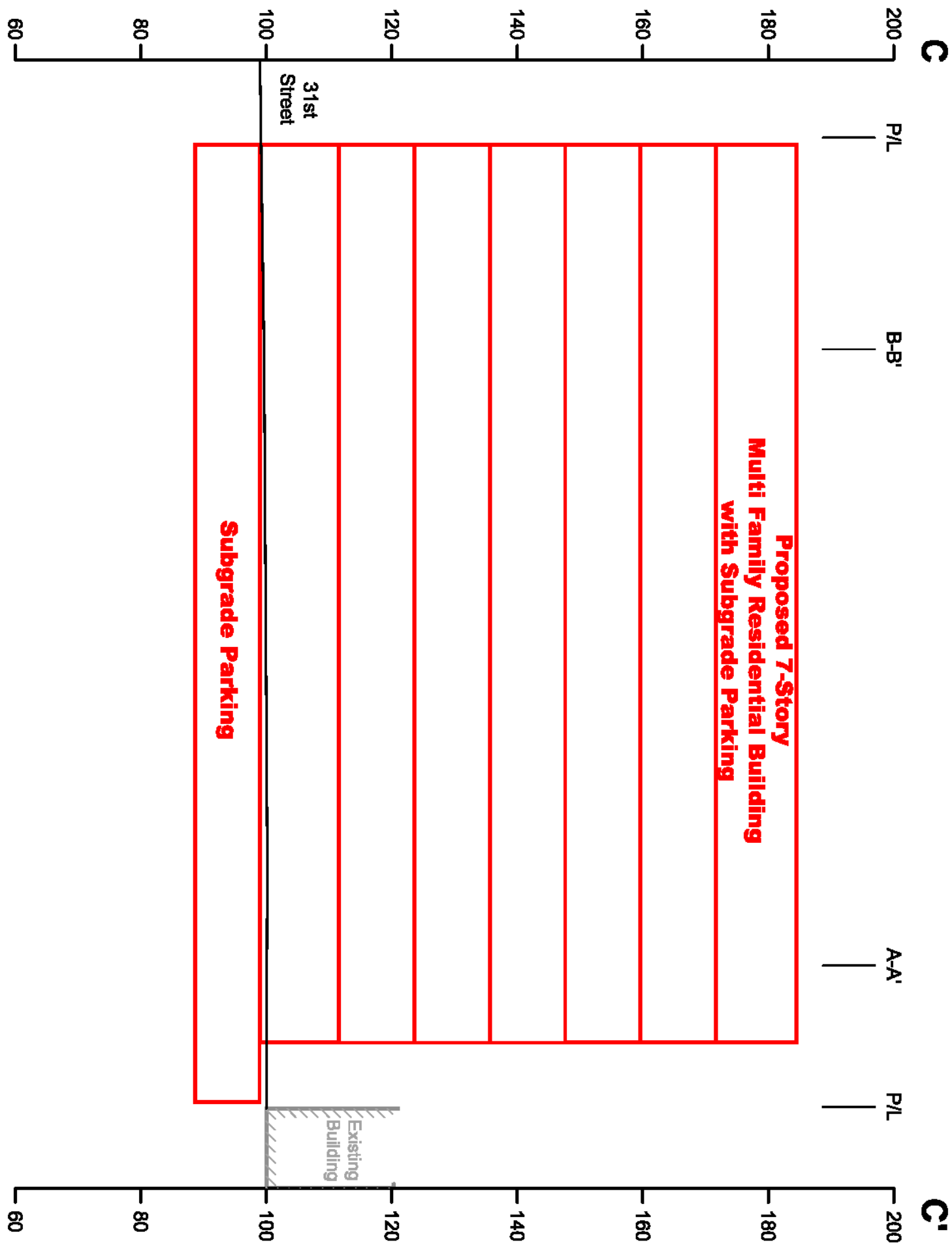


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Description:
**Cross Section C-C'**

Project Address:
505, 511 & 517 West 31st Street
Los Angeles, California

Date: Jan. 2017
Scale: 1" = 20'
Job No. 5266-1

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# EXPLORATION: TP-1

PROJECT: 505 - 517 W. 31st Street

PROJECT NO.: 5266

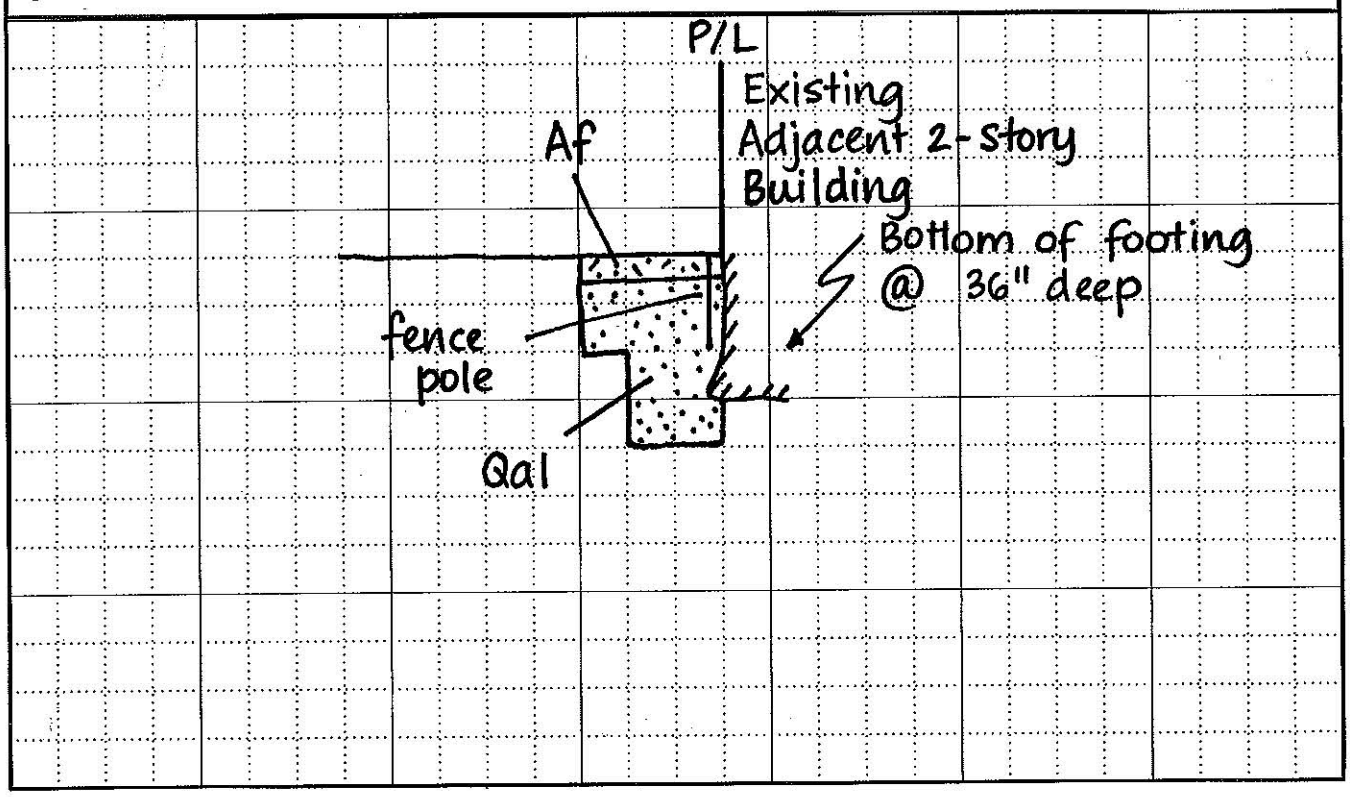
DATE: October 19, 2016

LOGGED BY: KNC

| ATTITUDE | DESCRIPTION |
|---|---|
| | 0.0 - 0.5' **FILL; Af,** silty sand, dark gray, slightly moist, fine to medium grained, roots, rootlets, few gravels up to 1" in length |
| | 0.5 - 4.0' **QUATERNARY ALLUVIUM; Qal,** sand, light grayish brown, slightly moist, fine to medium grained, few gravels up to 1" in length |
| fo - foliation<br>s - shear<br>j - joint<br>b - bedding | Total Depth 4.0 Feet, No Groundwater, No Caving |

**SCALE 1"=4'**

**GENERALIZED PROFILE**



# EXPLORATION: TP-2

PROJECT: 505 - 517 W. 31st Street

PROJECT NO.: 5266

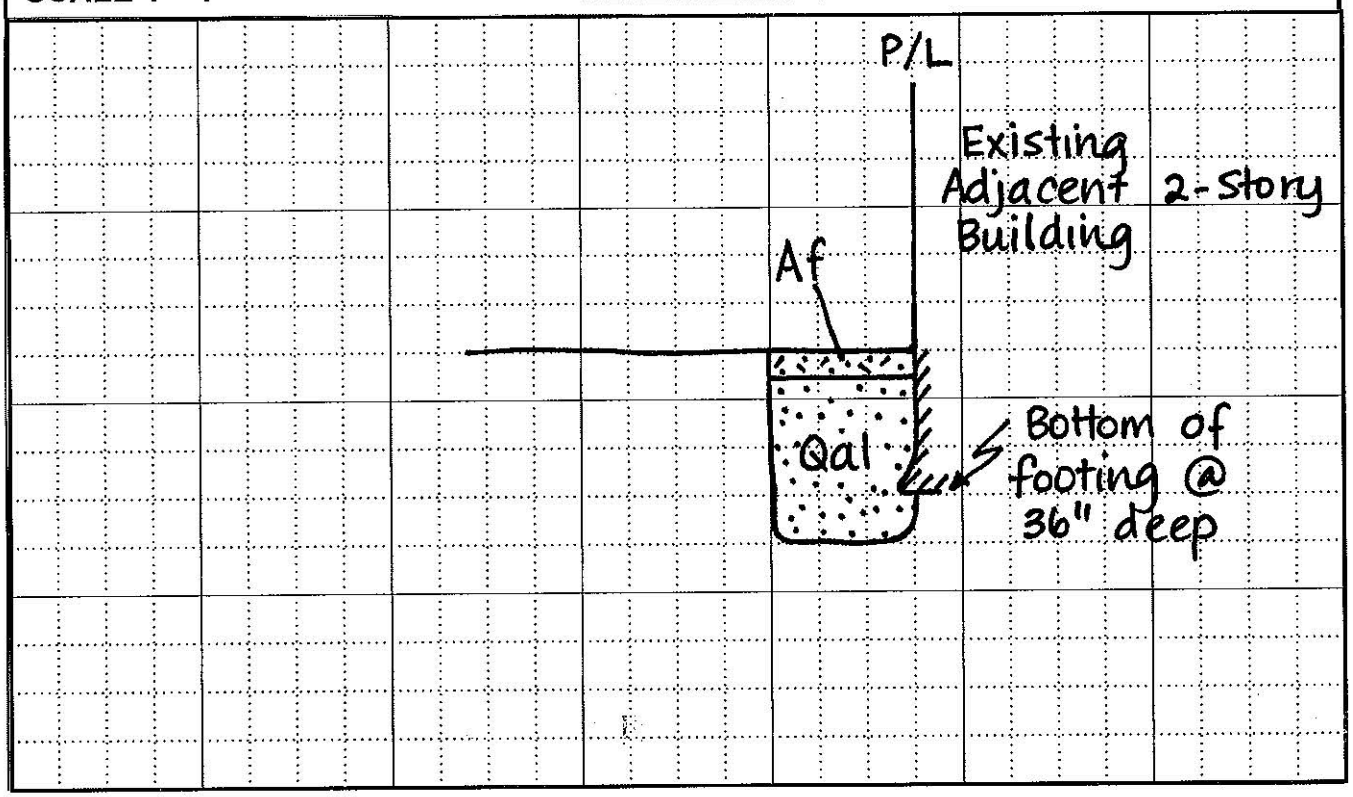
DATE: October 19, 2016

LOGGED BY: KNC

| ATTITUDE | DESCRIPTION |
|---|---|
| | 0.0 - 0.5' **FILL; Af,** silty sand, dark gray, slightly moist, fine to medium grained, roots, rootlets, few gravels up to 1" in length |
| | 0.5 - 4.0' **QUATERNARY ALLUVIUM; Qal,** sand, light grayish brown, slightly moist, fine to medium grained, roots and rootlets, few gravels up to 2" in length |
| fo - foliation<br>s - shear<br>j - joint<br>b - bedding | Total Depth 4.0 Feet, No Groundwater, No Caving |

**SCALE 1"=4'**

**GENERALIZED PROFILE**



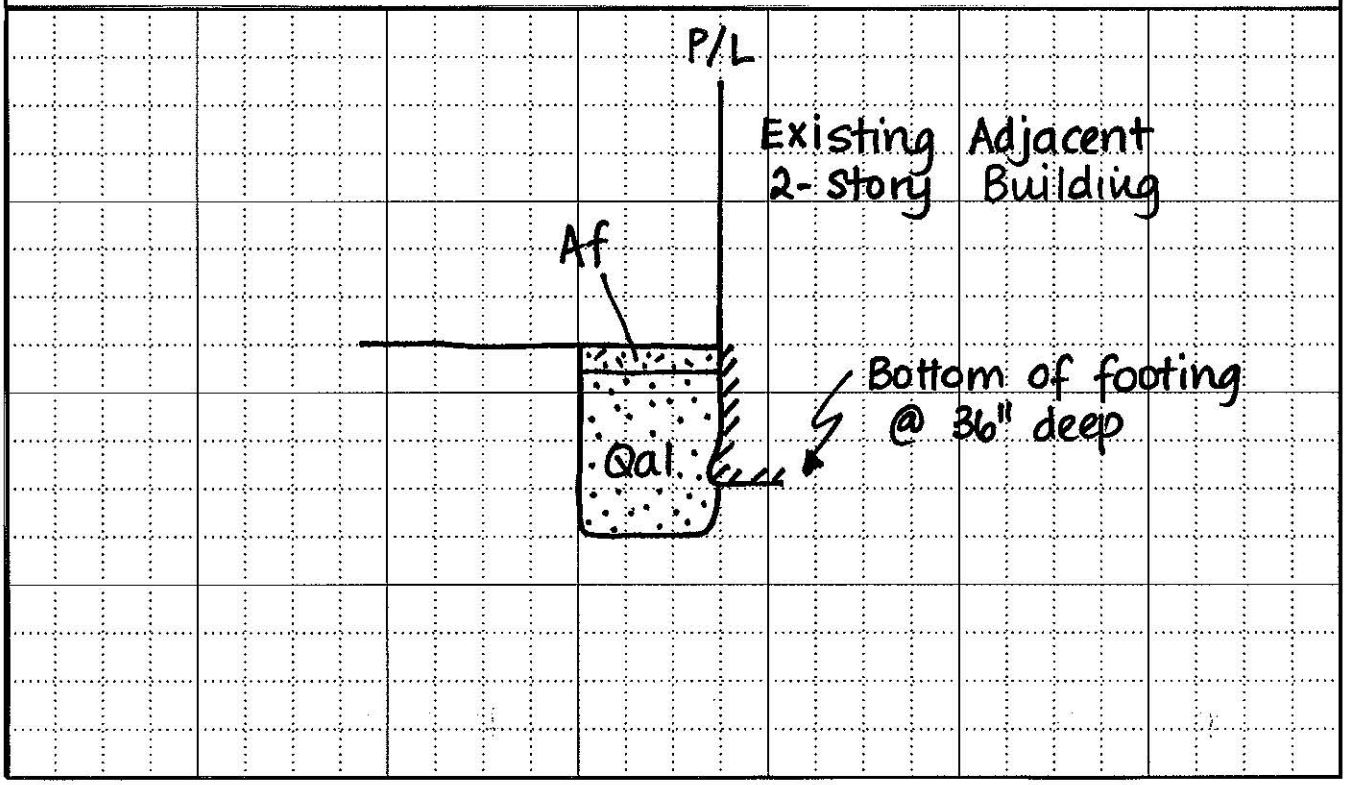
# EXPLORATION: TP-3

PROJECT: 505 - 517 W. 31st Street | PROJECT NO.: 5266

DATE: October 19, 2016 | LOGGED BY: KNC

| ATTITUDE | DESCRIPTION |
|---|---|
| | 0.0 - 0.5' **FILL; Af,** silty sand, dark gray, slightly moist, fine to medium grained, roots, rootlets, few gravels up to 1" in length |
| | 0.5 - 4.0' **QUATERNARY ALLUVIUM; Qal,** sand, light grayish brown, slightly moist, fine to medium grained, roots and rootlets, few gravels up to 2" in length |
| fo - foliation<br>s - shear<br>j - joint<br>b - bedding | Total Depth 4.0 Feet, No Groundwater, No Caving |

**SCALE 1"=4'** **GENERALIZED PROFILE**



# EXPLORATION: TP-4

PROJECT: 505 - 517 W. 31st Street

PROJECT NO.: 5266

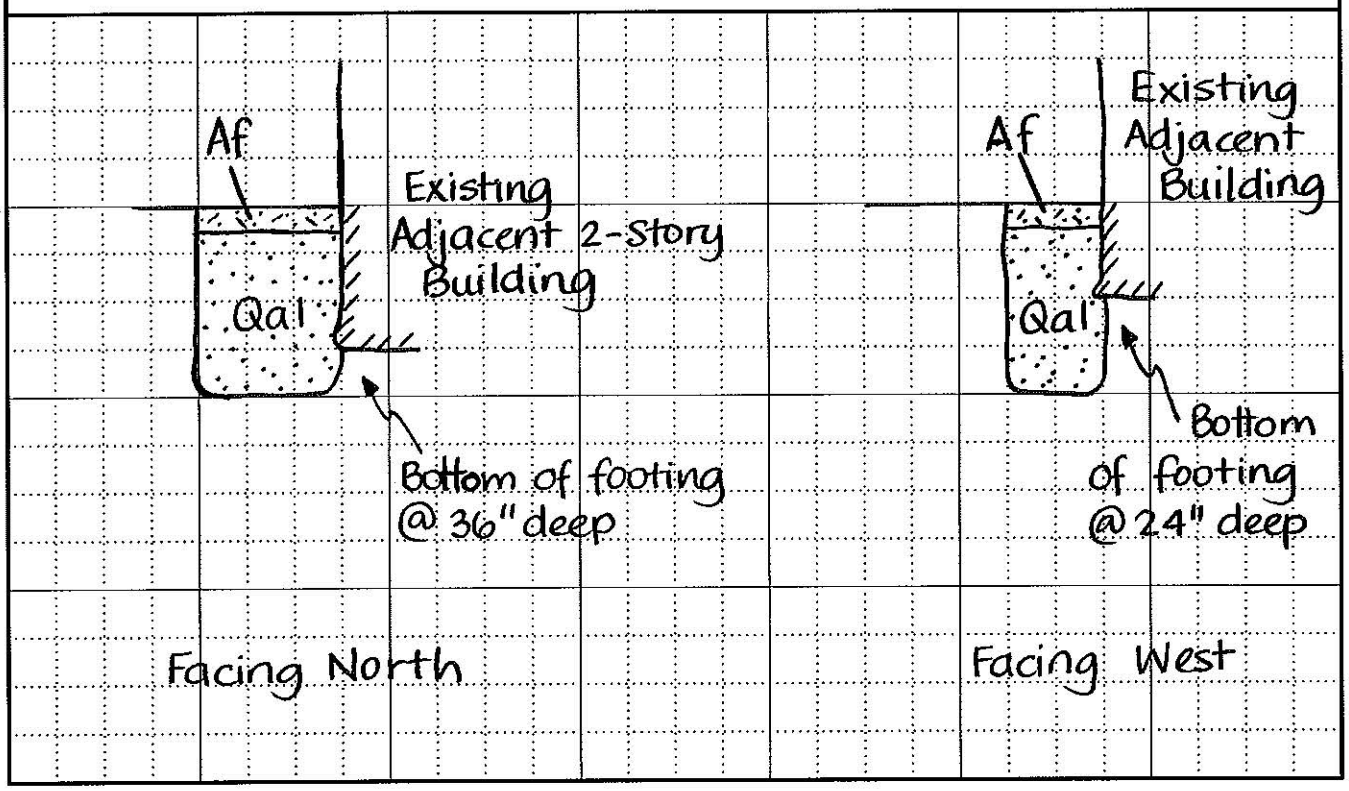
DATE: October 19, 2016

LOGGED BY: KNC

| ATTITUDE | DESCRIPTION |
|---|---|
| | 0.0 - 0.5' **FILL; Af,** silty sand, dark gray, slightly moist, fine to medium grained, roots, rootlets, few gravels up to 1" in length |
| | 0.5 - 4.0' **QUATERNARY ALLUVIUM; Qal,** sand, light grayish brown, slightly moist, fine to medium grained, few gravels up to 2" in length |
| fo - foliation<br>s - shear<br>j - joint<br>b - bedding | Total Depth 4.0 Feet, No Groundwater, No Caving |

**SCALE 1"=4'**

**GENERALIZED PROFILE**



# EXPLORATION: TP-5

PROJECT: 505 - 517 W. 31st Street

PROJECT NO.: 5266

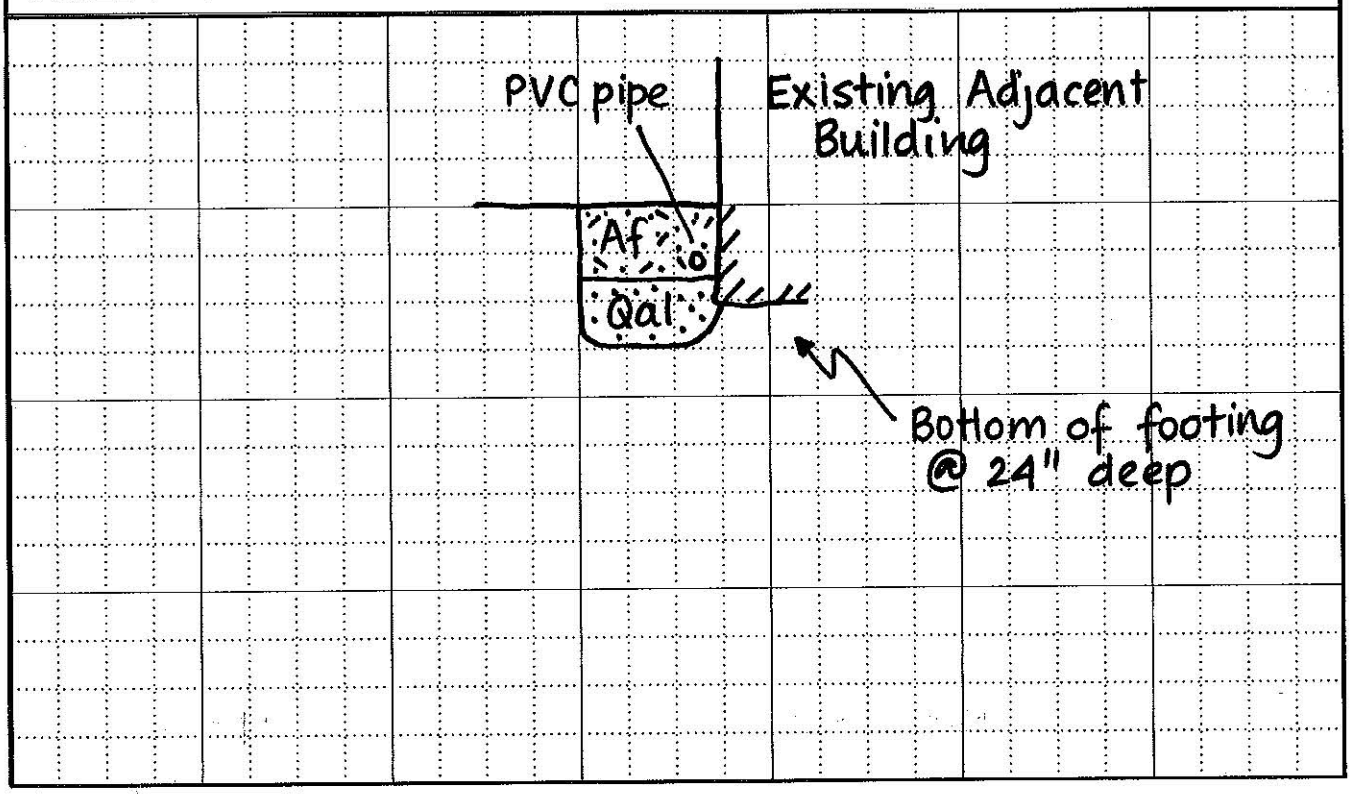
DATE: October 19, 2016

LOGGED BY: KNC

| ATTITUDE | DESCRIPTION |
|---|---|
| | 0.0 - 1.5' **FILL; Af,** silty sand, dark gray, slightly moist, fine to medium grained, roots, rootlets, few gravels up to 1" in length |
| | 1.5 - 3.0' **QUATERNARY ALLUVIUM; Qal,** sand, light grayish brown, slightly moist, fine to medium grained, roots and rootlets, few gravels up to 2" in length |
| fo - foliation<br>s - shear<br>j - joint<br>b - bedding | Total Depth 3.0 Feet, No Groundwater, No Caving |

**SCALE 1"=4'**

**GENERALIZED PROFILE**



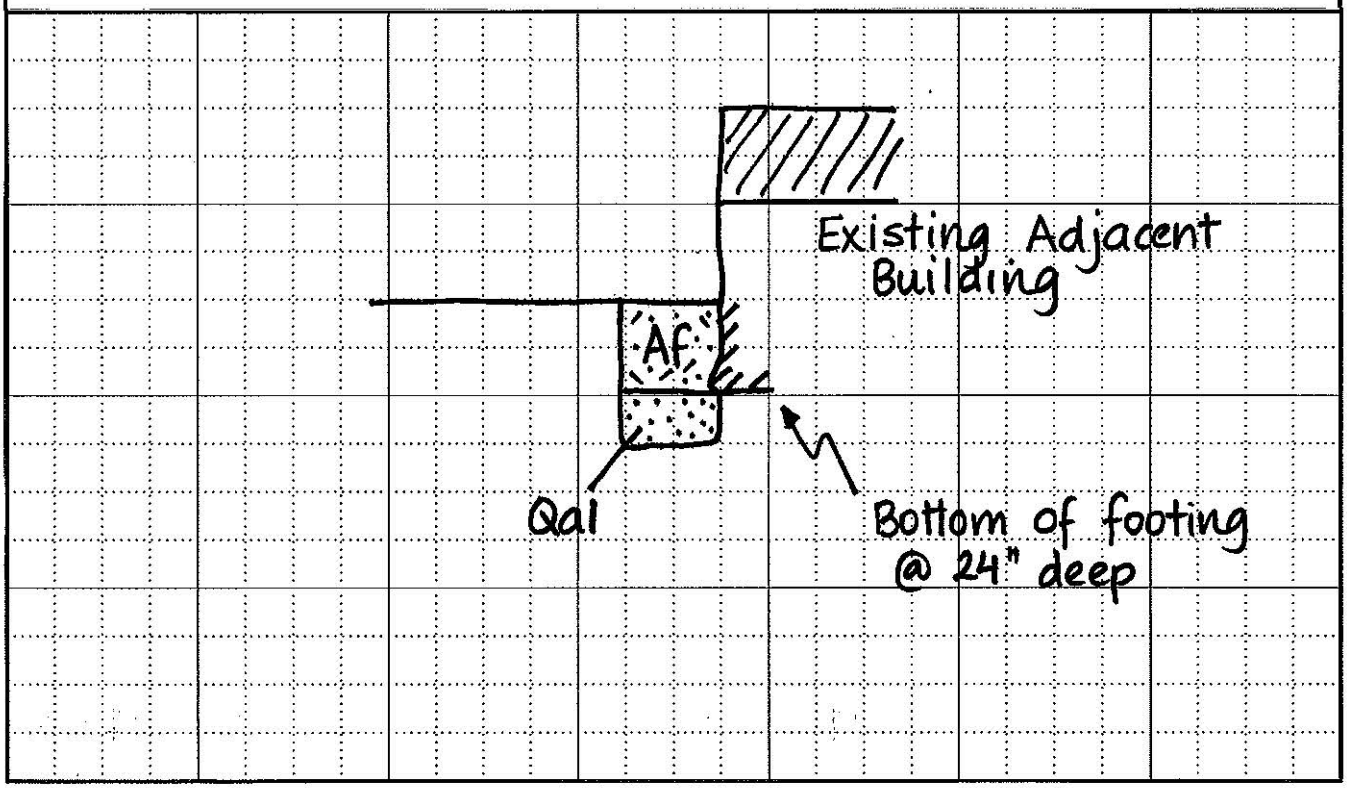
# EXPLORATION: TP-6

PROJECT: 505 - 517 W. 31st Street | PROJECT NO.: 5266

DATE: October 19, 2016 | LOGGED BY: KNC

| ATTITUDE | DESCRIPTION |
|---|---|
| | 0.0 - 2.0' **FILL; Af,** silty sand, dark gray, slightly moist, fine to medium grained, roots, rootlets, few gravels up to 1" in length |
| | 2.0 - 3.0' **QUATERNARY ALLUVIUM; Qal,** sand, light grayish brown, slightly moist, fine to medium grained, roots and rootlets, few gravels up to 2" in length |
| fo - foliation<br>s - shear<br>j - joint<br>b - bedding | Total Depth 3.0 Feet, No Groundwater, No Caving |

**SCALE 1"=4'** **GENERALIZED PROFILE**



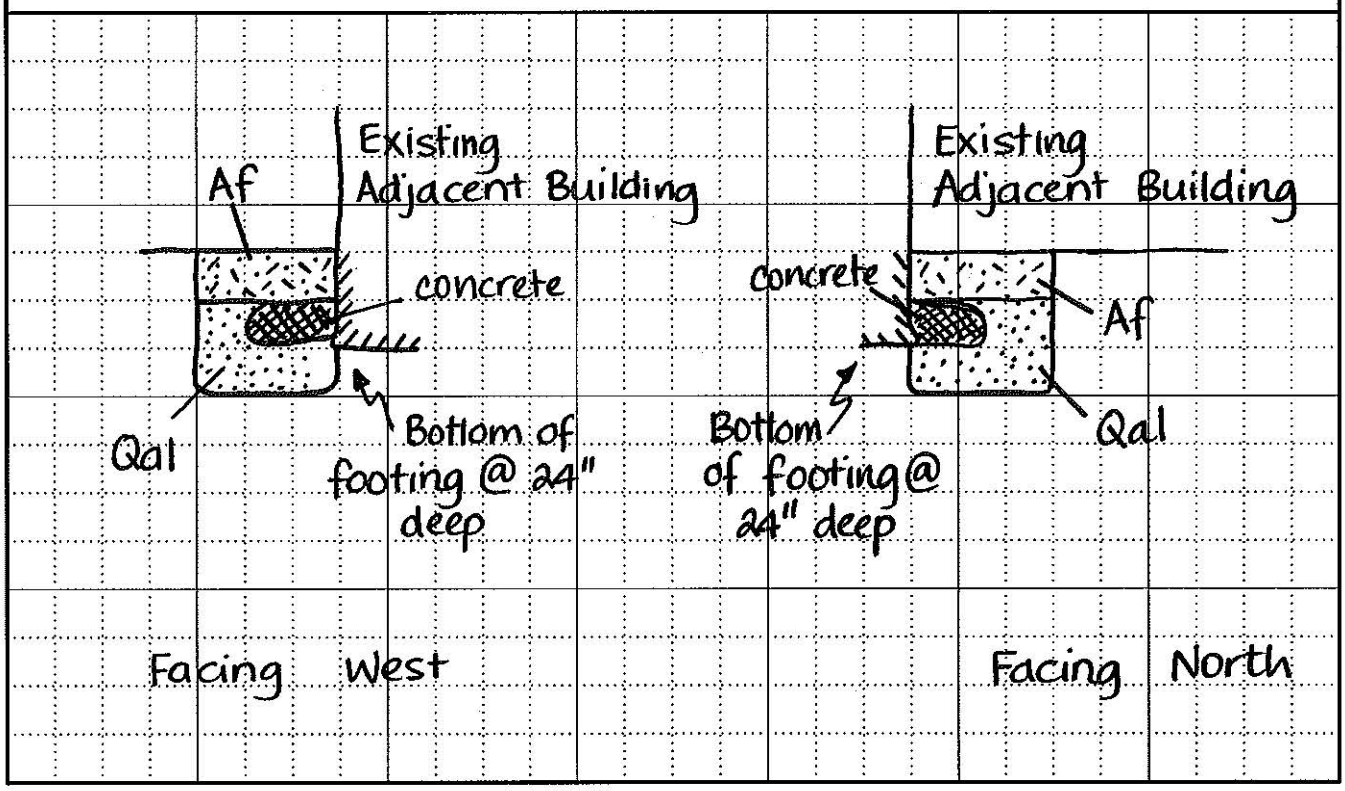
# EXPLORATION: TP-7

PROJECT: 505 - 517 W. 31st Street | PROJECT NO.: 5266

DATE: October 19, 2016 | LOGGED BY: KNC

| ATTITUDE | DESCRIPTION |
|---|---|
| | 0.0 - 1.0' **FILL; Af,** silty sand, dark gray, slightly moist, fine to medium grained, roots, rootlets, few gravels up to 1" in length |
| | 1.0 - 3.0' **QUATERNARY ALLUVIUM; Qal,** sand, light grayish brown, slightly moist, fine to medium grained, roots and rootlets, few gravels up to 2" in length |
| fo - foliation<br>s - shear<br>j - joint<br>b - bedding | Total Depth 3.0 Feet, No Groundwater, No Caving |

**SCALE 1"=4'** **GENERALIZED PROFILE**



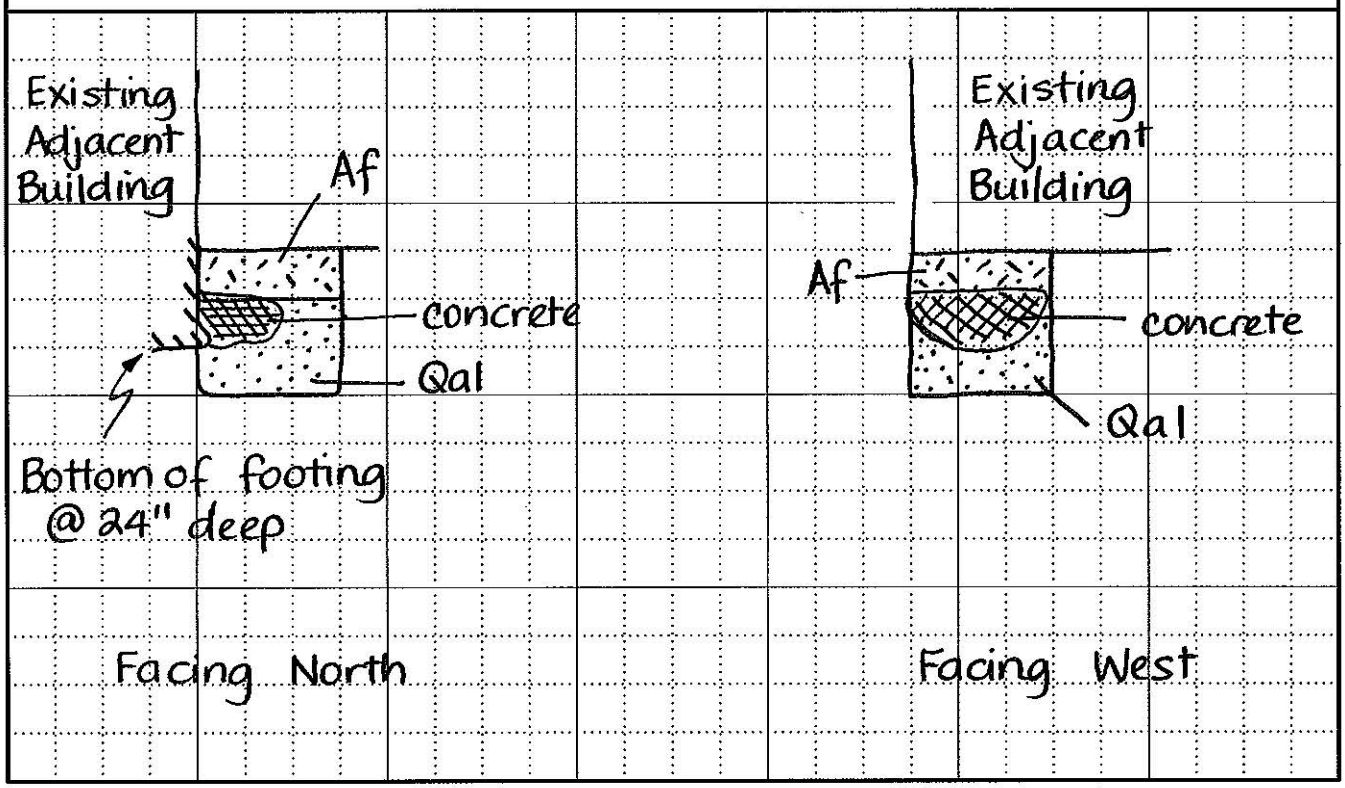
# EXPLORATION: TP-8

PROJECT: 505 - 517 W. 31st Street | PROJECT NO.: 5266

DATE: October 19, 2016 | LOGGED BY: KNC

| ATTITUDE | DESCRIPTION |
|---|---|
| | 0.0 - 1.0' **FILL; Af,** silty sand, dark gray, slightly moist, fine to medium grained, roots, rootlets, few gravels up to 1" in length |
| | 1.0 - 3.0' **QUATERNARY ALLUVIUM; Qal,** sand, light grayish brown, slightly moist, fine to medium grained, roots and rootlets, few gravels up to 2" in length |
| | @ 2.0' few cobbles up to 8" in length |
| fo - foliation<br>s - shear<br>j - joint<br>b - bedding | Total Depth 3.0 Feet, No Groundwater, No Caving |

**SCALE 1"=4'** **GENERALIZED PROFILE**



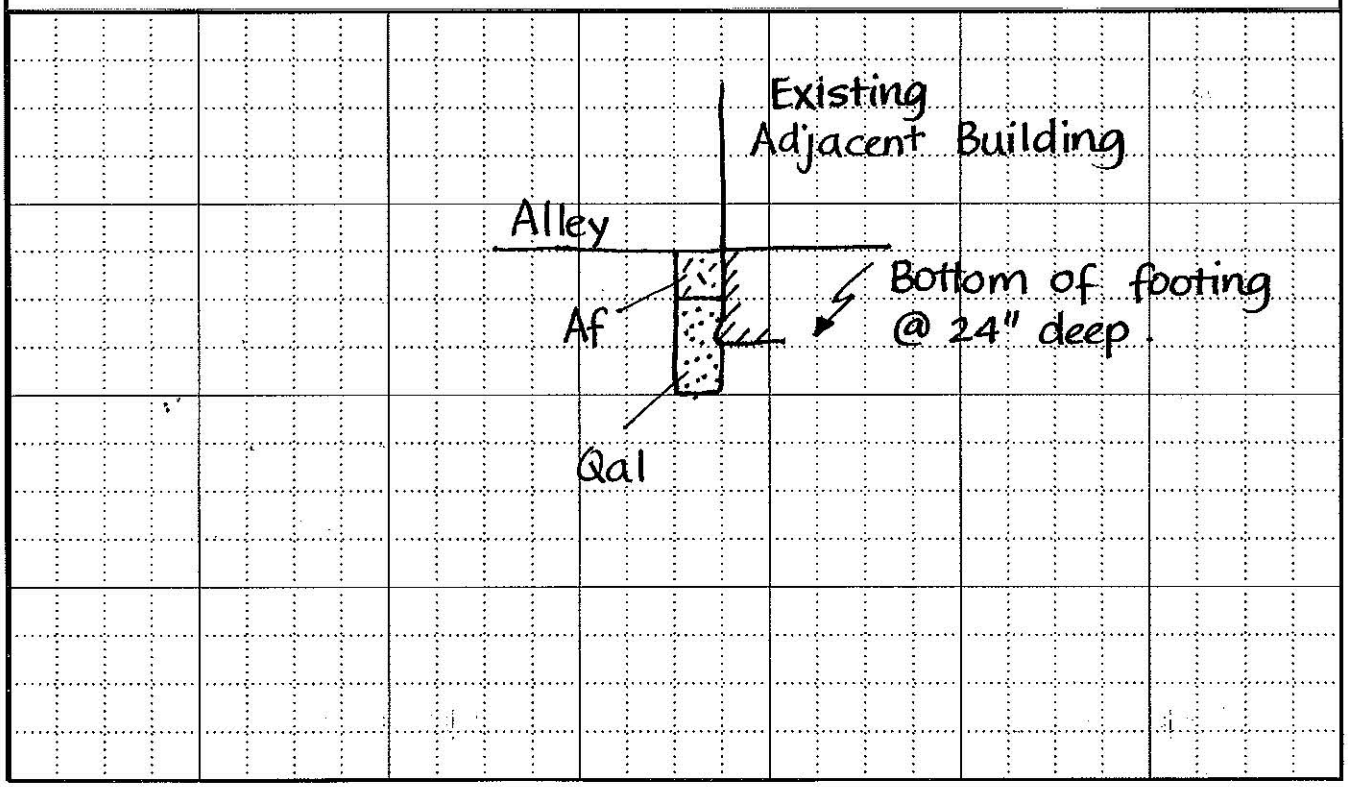
# EXPLORATION: TP-9

PROJECT: 505 - 517 W. 31st Street | PROJECT NO.: 5266

DATE: October 19, 2016 | LOGGED BY: KNC

| ATTITUDE | DESCRIPTION |
|---|---|
| | 0.0 - 1.0' **FILL; Af,** silty sand, dark gray, slightly moist, fine to medium grained, roots, rootlets, few gravels up to 1" in length |
| | 1.0 - 3.0' **QUATERNARY ALLUVIUM; Qal,** sand, light grayish brown, slightly moist, fine to medium grained, roots and rootlets, few gravels up to 2" in length |
| fo - foliation<br>s - shear<br>j - joint<br>b - bedding | Total Depth 3.0 Feet, No Groundwater, No Caving |

**SCALE 1"=4'** **GENERALIZED PROFILE**



# BORING: B-1

ADDRESS: 505 - 517 W. 31st Street

PROJECT NO.: 5266

DATE LOGGED: October 19, 2016

LOGGED BY: KNC

ATTITUDES
b - bedding j - joint
s - shear f - fault

| WATER CONTENT, % | UNIT DRY WEIGHT, PCF | BLOWS/FOOT | SAMPLES | DEPTH, FT | GRAPHIC LOG | DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | 0.0 - 0.5' **FILL; Af,** silty sand, light brown, slightly moist, fine to medium grained, roots, rootlets, loose |
| | | | | | | 0.5 - 40.0' **QUATERNARY ALLUVIUM; Qal,** |
| | | | | | | @ 1.0 - 3.0' hole belled out |
| 3 | 105 | | X | 5 | | @ 5.0' silty sand to sand, light grayish brown, slightly moist, fine to medium grained, gravels up to ½" in length |
| 1 | 110 | | X | 10 | | @ 10.0' sand, medium brown, slightly moist, fine to coarse grained, gravels up to 2" in length |
| | | | | | | @11.0' - 14.0' cobbles up to 4"-8" |
| 2 | 114 | | X | 15 | | @ 15.0' sand, light yellowish brown, slightly moist, fine to coarse grained, gravels up to 2" in length, cobbles up to 3" in length |
| 3 | 119 | | X | 20 | | @ 20.0' sand, light yellowish brown, slightly moist, fine to coarse grained, gravels up to 2" in length |
| 3 | 117 | | X | 25 | | @ 25.0' sand, yellowish brown, slightly moist, fine to coarse grained, gravels up to 1½" in length, cobbles up to 3½" in length, caving |
| 1 | 117 | | X | 30 | | @ 30.0' sand, light grayish brown,slightly moist, fine to coarse grained, gravels up to 2" in length, cobbles up to 3½" in length |
| 2 | 118 | | X | 35 | | @ 35.0' sand, tan, slightly moist, fine to coarse grained, gravels up to 2" in length |
| 9 | 119 | | X | 40 | | @ 40.0' sand, tan, slightly moist, fine to coarse grained, gravels up to 2" in length |
| | | | | | | Total Depth 41.0 Feet |
| | | | | | | No Groundwater |
| | | | | | | Caving @ 1.0 - 3.0 and 25.0' |

# BORING: B-2

ADDRESS: 505 - 517 W. 31st Street

PROJECT NO.: 5266

DATE LOGGED: October 19, 2016

LOGGED BY: KNC

ATTITUDES
b - bedding j - joint
s - shear f - fault

| WATER CONTENT, % | UNIT DRY WEIGHT, PCF | BLOWS/FOOT | SAMPLES | DEPTH, FT | GRAPHIC LOG | DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | 0.0 - 4.0" **CONCRETE** |
| | | | | | | 4.0" - 2.0' **FILL; Af,** sand, dark brown, slightly moist, fine to coarse grained, cobbles up to 6" in length |
| | | | | | | 2.0 - 20.0' **QUATERNARY ALLUVIUM; Qal,** |
| 5 | 102 | | X | 5 | | @ 5.0' silty sand to sand, light grayish brown, slightly moist, fine to medium grained, gravels up to ½" in length |
| 0 | 108 | | X | 10 | | @ 10.0' sand, yellowish brown, dry, fine to coarse grained, gravels up to 3" in length, caving, cobbles up to 8" in length |
| 4 | 120 | | X | 15 | | @ 15.0' sand, yellowish brown, slightly moist, fine to coarse grained, gravels up to 3" in length, caving, cobbles up to 8" in length |
| | | | | 20 | | @ 20.0' sand, yellowish brown, slightly moist, fine to coarse grained, gravels up to 3" in length, caving, cobbles up to 8" in length |
| | | | | | | Total Depth 20.0 Feet<br>No Groundwater<br>Caving @ 15.0 - 20.0 Feet |
| | | | | 25 | | |
| | | | | 30 | | |
| | | | | 35 | | |
| | | | | 40 | | |

# BORING: B-3

ADDRESS: 505 - 517 W. 31st Street

PROJECT NO.: 5266

DATE LOGGED: October 20, 2016

LOGGED BY: EG

ATTITUDES
b - bedding j - joint
s - shear f - fault

| WATER CONTENT, % | UNIT DRY WEIGHT, PCF | BLOWS/FOOT | SAMPLES | DEPTH, FT | GRAPHIC LOG | DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | 0.0 - 0.5' **FILL; Af,** silty sand, light brown, slightly moist, fine to medium grained, roots, rootlets, loose |
| | | | | | | 0.5' - 35.0' **QUATERNARY ALLUVIUM; Qal,** |
| 1 | 103 | | | 5 | | @5.0' silty sand, light brown, dry, few to occasional rock fragments up to 6" in length |
| 1 | 108 | | | 10 | | @10.0' silty sand, light brown, dry, few to occasional rock fragments up to 6" in length |
| 2 | 116 | | | 15 | | @15.0' silty sand, light brown, dry, moderately firm, few to occasional rock fragments up to 6" in length |
| 3 | 117 | | | 20 | | @20.0' silty sand, yellowish brown, slightly moist, medium dense, occasional to frequent rock fragments up to 3" in length, minor caving |
| 2 | 126 | | | 25 | | @25.0' gravelly sand, yellowish brown to light brown, slightly moist to damp, coarse grained |
| 5 | 125 | | | 30 | | @30.0' gravelly sand, yellowish brown to light brown, slightly moist to damp, coarse grained |
| 2 | 122 | | | 35 | | @35.0' gravelly sand, yellowish brown to light brown, slightly moist to damp, coarse grained |
| | | | | 40 | | Total Depth 36.0 Feet<br>No Groundwater<br>Caving @ 5.0 Feet to 35.0 Feet<br>Significant Caving @ 20.0 Feet to 35.0 Feet |

# BORING: B-4

ADDRESS: 505 - 517 W. 31st Street

PROJECT NO.: 5266

DATE LOGGED: October 20, 2016

LOGGED BY: EG

| ATTITUDES<br>b - bedding j - joint<br>s - shear f - fault | WATER CONTENT, % | UNIT DRY WEIGHT, PCF | BLOWS/FOOT | SAMPLES | DEPTH, FT | GRAPHIC LOG | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 - 0.5' **FILL; Af,** silty sand, light brown, slightly moist, fine to medium grained, roots, rootlets, loose |
| | | | | | | | 1.0' - 15.0' **QUATERNARY ALLUVIUM; Qal,** |
| | | | | | 5 | | @5.0' silty sand, yellowish brown to light brown, damp to slightly moist, few to occasional rock fragments up to 3" in length |
| | | | | | 10 | | @10.0' silty sand, yellowish brown to light brown, damp to slightly moist, few to occasional rock fragments up to 3" in length |
| | | | | | 15 | | @15.0' silty sand, yellowish brown to light brown, damp to slightly moist, few to occasional rock fragments up to 3" in length |
| | | | | | | | Total Depth 15.0 Feet<br>No Groundwater<br>Caving From 6.0 Feet to 15.0 Feet |
| | | | | | 20 | | |
| | | | | | 25 | | |
| | | | | | 30 | | |
| | | | | | 35 | | |
| | | | | | 40 | | |

# APPENDIX II

## LABORATORY TESTING

Laboratory Procedures

Laboratory Recapitulation 1
Laboratory Recapitulation 2

Figures S.1 through S.6
Figures C.1 through C.6

# LABORATORY PROCEDURES

Laboratory testing was performed on samples obtained as outlined in the Field Exploration section of this report. All samples were sent to the laboratory for examination, testing in general conformance to specified test methods, and classification, using the Unified Soil Classification System and group symbol.

## Moisture and Density Tests

The dry unit weight and moisture content of the undisturbed samples were determined. The results are tabulated in the Laboratory Recapitulation - Table 1.

## Shear Tests

Direct single-shear tests were performed with a direct shear machine. The desired normal load is applied to the specimen and allowed to come to equilibrium. The rate of deflection on the sample is approximately 0.005 inches per minute. The samples are tested at higher and/or lower normal loads in order to determine the angle of internal friction and the cohesion. The results are plotted on the Shear Test Diagrams and the results tabulated in the Laboratory Recapitulation - Table 1. The samples were observed prior to and after shearing to ensure the particle size of the sample did not exceed 10% of the diameter of the test specimen in accordance with ASTM standards. Although the soil was described to include gravels they were not included within the samples tested, therefore, the results provide a conservative estimate of the shear strength of the soil.

## Consolidation

Consolidation tests were performed on samples, within the brass ring, to predict the soils behavior under a specific load. Porous stones are placed in contact with top and bottom of the samples to permit to allow the addition or release of water. Loads are applied in several increments and the results are recorded at selected time intervals. Samples are tested at field and increased moisture content. The results are plotted on the Consolidation Test Curve and the load at which the water is added as noted on the drawing.

## pH (CTM 532)

A sample of dry soil and distilled water are placed in a flask and allowed to stand for approximately an hour to stabilize. The pH is measured using a pH meter that has been compensated for temperature. The results are tabulated in the Laboratory Recapitulation - Table 2.

## Minimum Resistivity (CTM 532)

The electrical resistivity of each soil specimen is conducted in a two-stage process using the soil box method. The first stage measures the resistivity of the soil in its as-received condition and the second stage records the value after saturation with distilled water. The results are tabulated in the Laboratory Recapitulation - Table 2.

**Chloride Content (CTM 422)**

A sample of dry soil is mixed with distilled water and allowed to stand overnight. The top aliquot of the sample is mixed with chloride indicator and titrated over silver nitrate solution. The chloride content is determined by the difference of the volumes required to complete titration. The results are tabulated in the Laboratory Recapitulation - Table 2.

**Sulfate Content (CTM 417)**

A sample of dry soil is mixed with distilled water and allowed to stand overnight. The top aliquot is mixed with distilled water and a conditioning agent. The solution is then placed in a photometer and the value recorded. The process is repeated with the addition of barium chloride. The sulfate content is determined by the difference of the photometer readings. The results are tabulated in the Laboratory Recapitulation - Table 2.

| LABORATORY RECAPITULATION 1<br>PROJECT: 505 - 517 W. 31st Street<br>PROJECT NO.: 5266 | | | | | | |
|---|---|---|---|---|---|---|
| **Exploration** | **Depth (ft)** | **Material** | **Dry Density In Situ (P.C.F.)** | **Moisture Content (%)** | **Cohesion (K.S.F)** | **Friction Angle (degree)** |
| B-1 | 5 | Qal | 105.1 | 3.3 | 0.1 | 31 |
| B-1 | 10 | Qal | 109.7 | 1.3 | | |
| B-1 | 15 | Qal | 114.2 | 2.4 | 0.05 | 34 |
| B-1 | 20 | Qal | 118.6 | 3.1 | | |
| B-1 | 25 | Qal | 117.1 | 2.8 | 0.025 | 36 |
| B-1 | 30 | Qal | 117.3 | 1.4 | | |
| B-1 | 35 | Qal | 117.9 | 1.5 | | |
| B-1 | 40 | Qal | 119.5 | 9.3 | | |
| B-2 | 5 | Qal | 101.9 | 5.2 | 0.1 | 33 |
| B-2 | 10 | Qal | 107.6 | 0.2 | | |
| B-2 | 15 | Qal | 119.8 | 3.8 | | |
| B-3 | 5 | Qal | 103.3 | 0.9 | | |
| B-3 | 10 | Qal | 107.8 | 1 | 0.175 | 30 |
| B-3 | 15 | Qal | 116.2 | 1.5 | | |
| B-3 | 20 | Qal | 117.2 | 2.8 | | |
| B-3 | 25 | Qal | 125.7 | 1.9 | | |
| B-3 | 30 | Qal | 124.8 | 4.5 | 0.025 | 35 |
| B-3 | 35 | Qal | 122.3 | 1.8 | | |

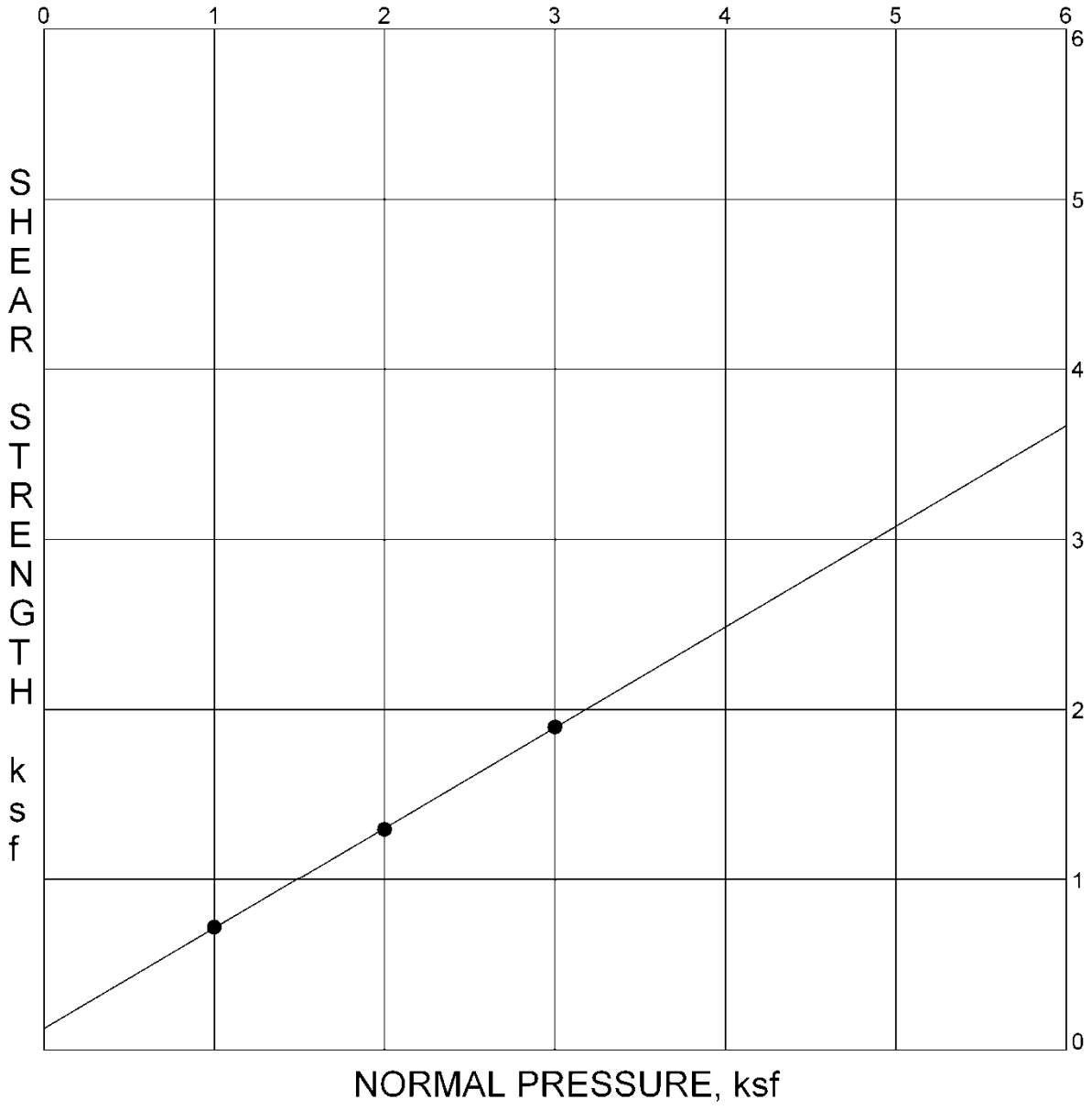
| LABORATORY RECAPITULATION 2<br>PROJECT: 505 - 517 W. 31st Street<br>PROJECT NO.: 5266 | | | | | | |
|---|---|---|---|---|---|---|
| **Exploration** | **Depth (ft)** | **pH** | **As-Is Soil Resistivity (ohm-cm)** | **Minimum Soil Resistivity (ohm-cm)** | **Chloride (%)** | **Sulfate (%)** |
| B-1 | 10 | 7.4 | 240000 | 12000 | 0.044 | 0.00003 |

PROJECT LOCATION: 505 - 517 W. 31st Street

PROJECT NO.: 5266

SAMPLE LOCATION: B-1 @ 5.0

DESCRIPTION: Qal




## Test Results

| Moisture Content (%) | Density (pcf) | Ultimate Strength |
|---|---|---|
| Insitu: 3.3 | Dry Density: 105.1 | Phi (deg): 31.0 |
| Saturated: 22.3 | | Cohesion (ksf): 0.100 |

## SHEAR TEST DIAGRAM

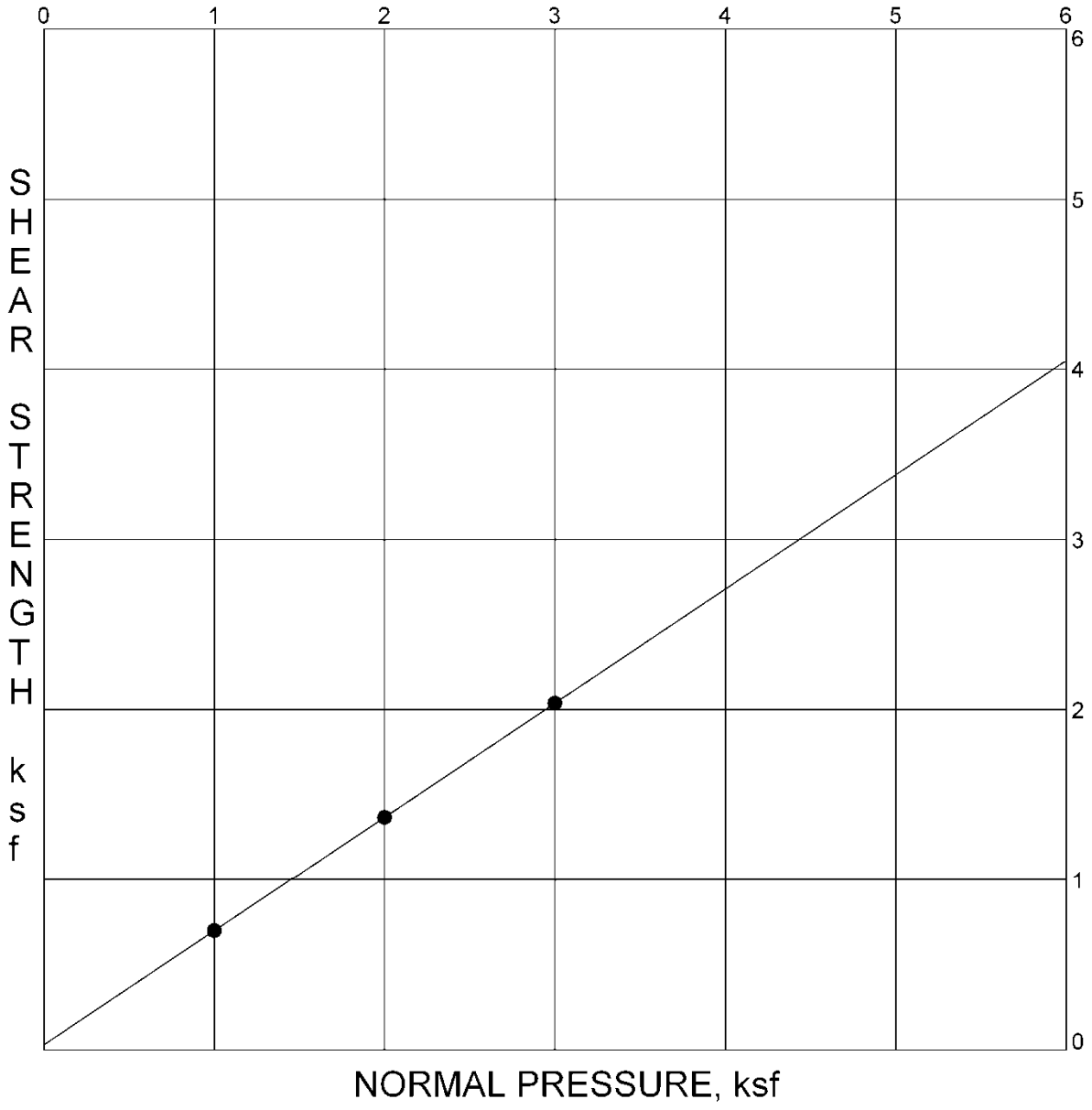
Figure S.1

PROJECT LOCATION: 505 - 517 W. 31st Street

PROJECT NO.: 5266

SAMPLE LOCATION: B-1 @ 15.0

DESCRIPTION: Qal




## Test Results

| Moisture Content (%) | Density (pcf) | Ultimate Strength |
|---|---|---|
| Insitu: 2.4 | Dry Density: 114.2 | Phi (deg): 34.0 |
| Saturated: 17.6 | | Cohesion (ksf): 0.050 |

## SHEAR TEST DIAGRAM

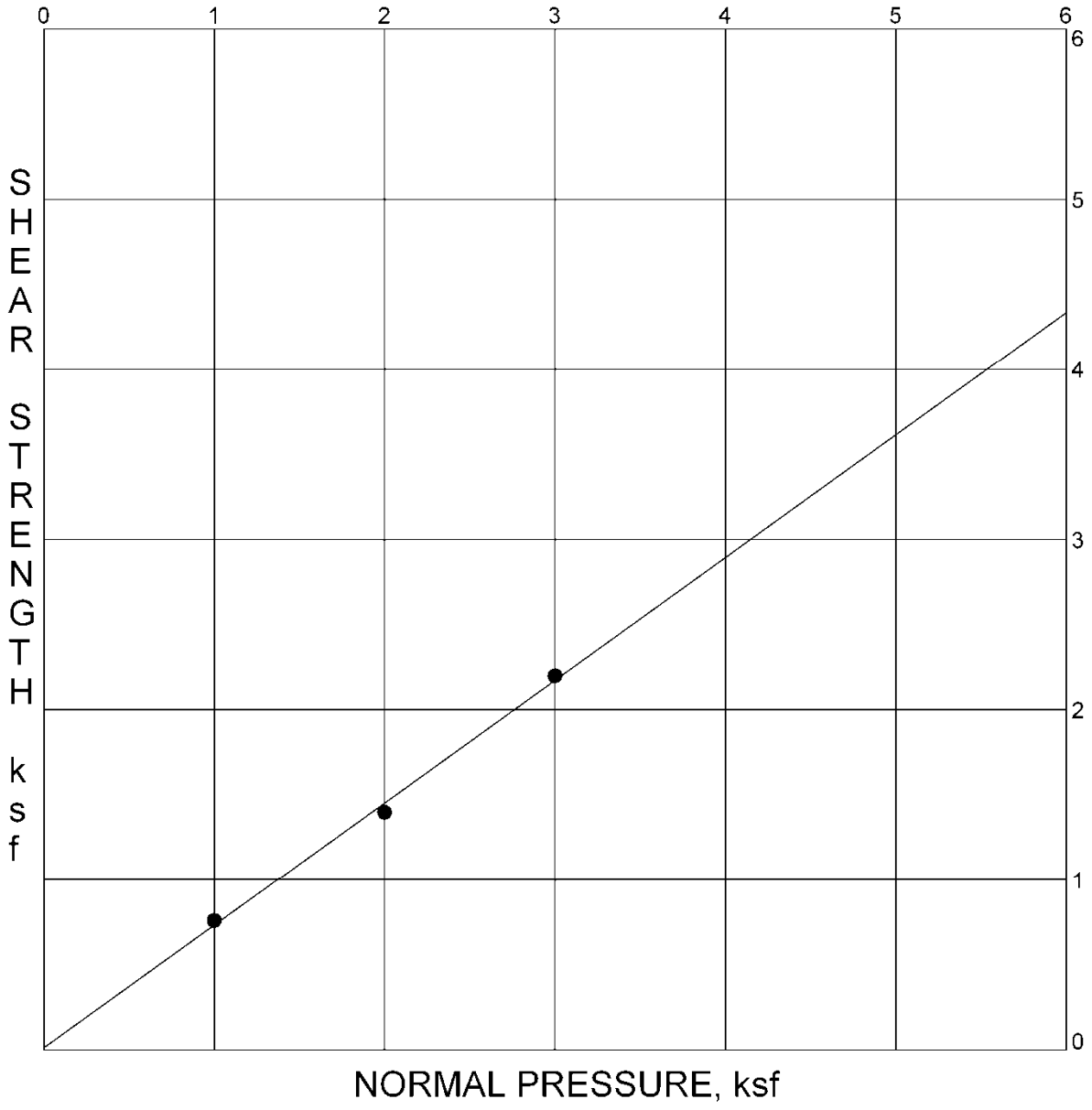
Figure S.2

PROJECT LOCATION: 505 - 517 W. 31st Street

PROJECT NO.: 5266

SAMPLE LOCATION: B-1 @ 25.0

DESCRIPTION: Qal




## Test Results

| Moisture Content (%) | Density (pcf) | Ultimate Strength |
|---|---|---|
| Insitu: 2.8 | Dry Density: 117.1 | Phi (deg): 36.0 |
| Saturated: 16.2 | | Cohesion (ksf): 0.025 |

## SHEAR TEST DIAGRAM

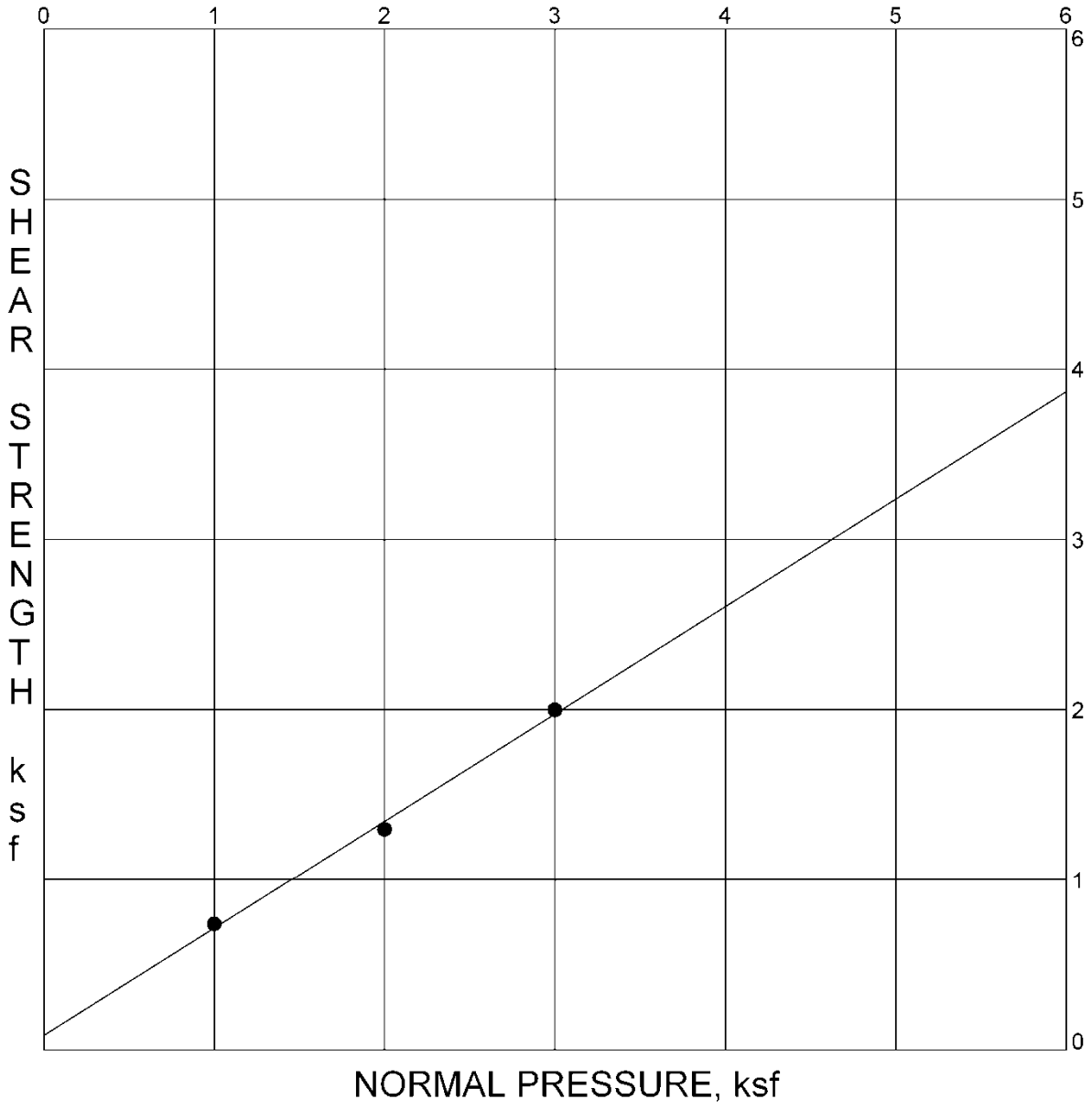
Figure S.3

PROJECT LOCATION: 505 - 517 W. 31st Street

PROJECT NO.: 5266

SAMPLE LOCATION: B-2 @ 5.0

DESCRIPTION: Qal




## Test Results

| Moisture Content (%) | Density (pcf) | Ultimate Strength |
|---|---|---|
| Insitu: 5.2 | Dry Density: 101.9 | Phi (deg): 33.0 |
| Saturated: 24.1 | | Cohesion (ksf): 0.100 |

## SHEAR TEST DIAGRAM

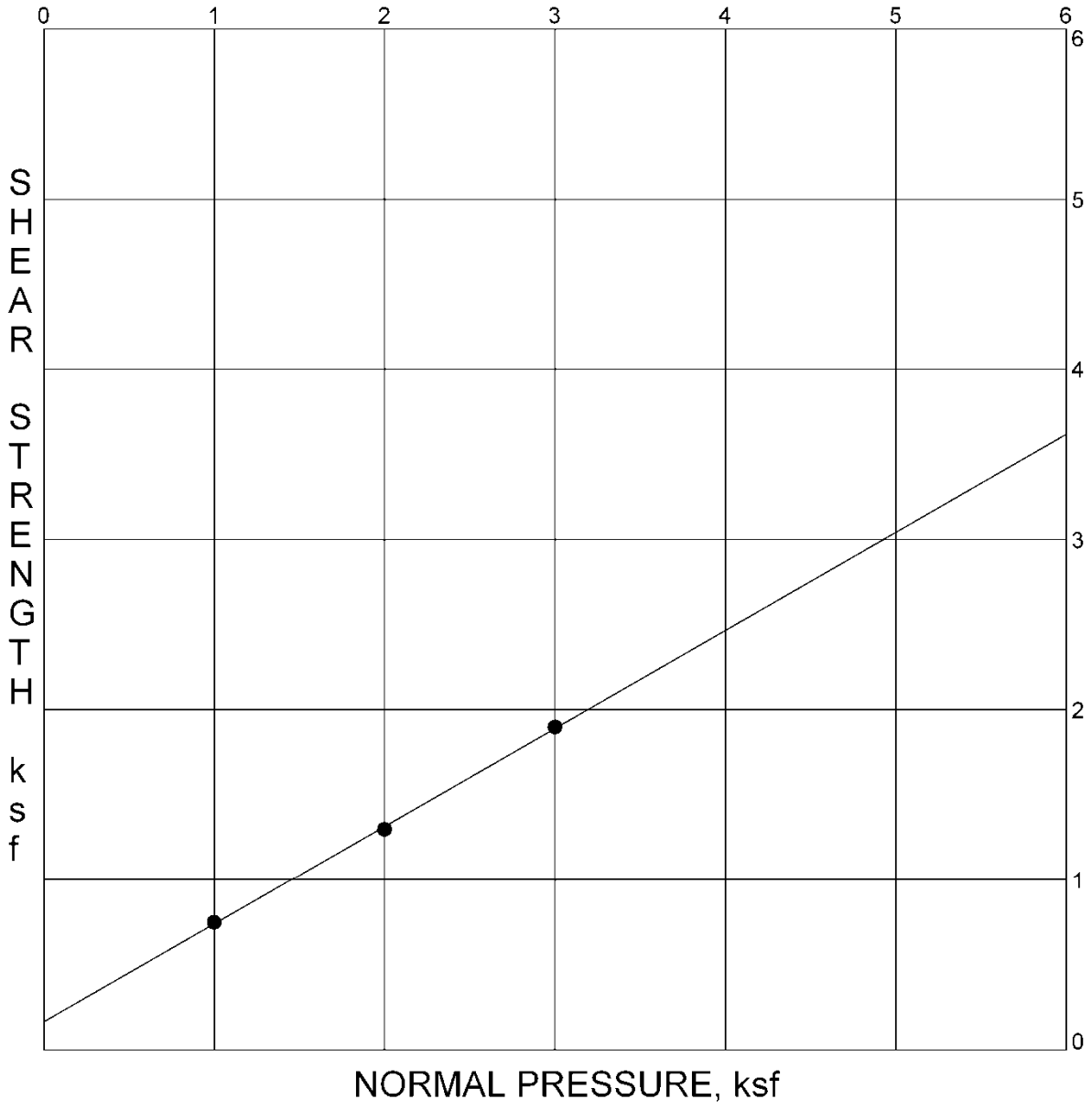
Figure S.4

PROJECT LOCATION: 505 - 517 W. 31st Street

PROJECT NO.: 5266

SAMPLE LOCATION: B-3 @ 10.0

DESCRIPTION: Qal




## Test Results

| Moisture Content (%) | Density (pcf) | Ultimate Strength |
|---|---|---|
| Insitu: 1.0 | Dry Density: 107.8 | Phi (deg): 30.0 |
| Saturated: 20.8 | | Cohesion (ksf): 0.175 |

## SHEAR TEST DIAGRAM

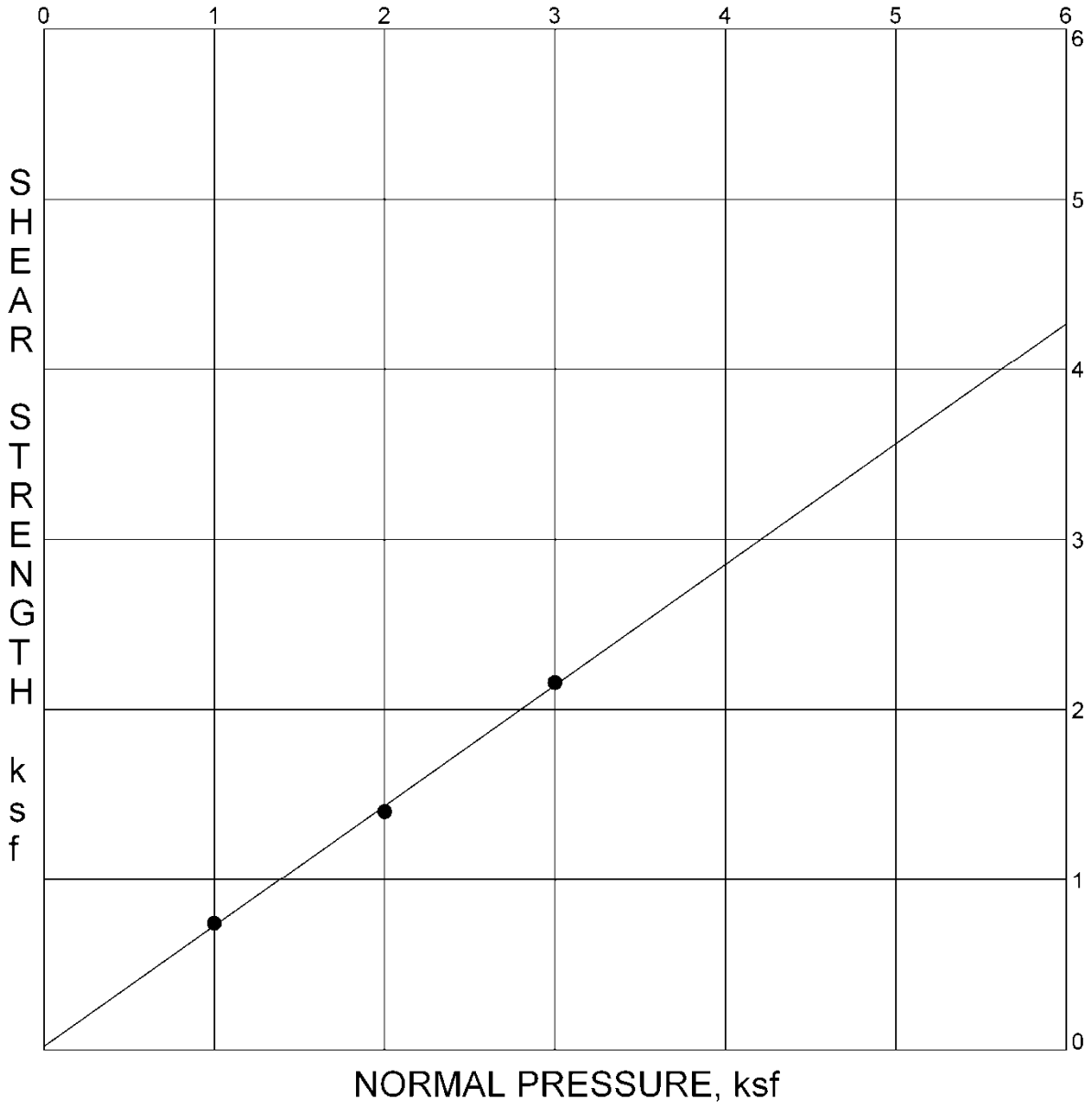
Figure S.5

PROJECT LOCATION: 505 - 517 W. 31st Street

PROJECT NO.: 5266

SAMPLE LOCATION: B-3 @ 30.0

DESCRIPTION: Qal




## Test Results

| Moisture Content (%) | Density (pcf) | Ultimate Strength |
|---|---|---|
| Insitu: 4.5 | Dry Density: 124.8 | Phi (deg): 35.0 |
| Saturated: 12.9 | | Cohesion (ksf): 0.025 |

## SHEAR TEST DIAGRAM

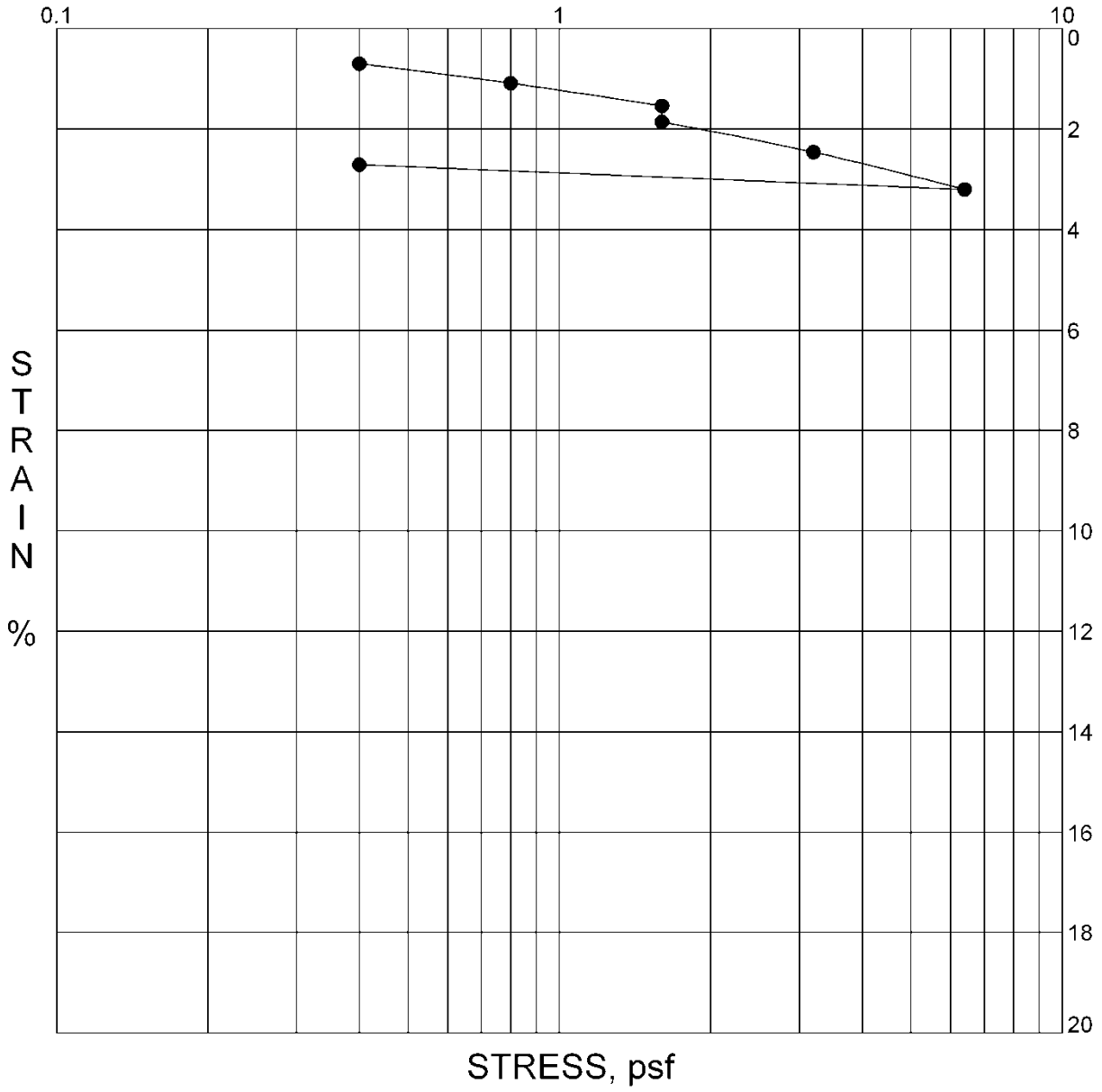
Figure S.6

PROJECT LOCATION: 505 - 517 W. 31st Street

PROJECT NO.: 5266

SAMPLE LOCATION: B-1 @ 10.0

DESCRIPTION: Qal




## Test Results

| Moisture Content (%) | Density (pcf) | Water Added At |
|---|---|---|
| Insitu: 1.3 | Dry Density: 109.7 | **1600 lbs.** |

**CONSOLIDATION TEST DIAGRAM**

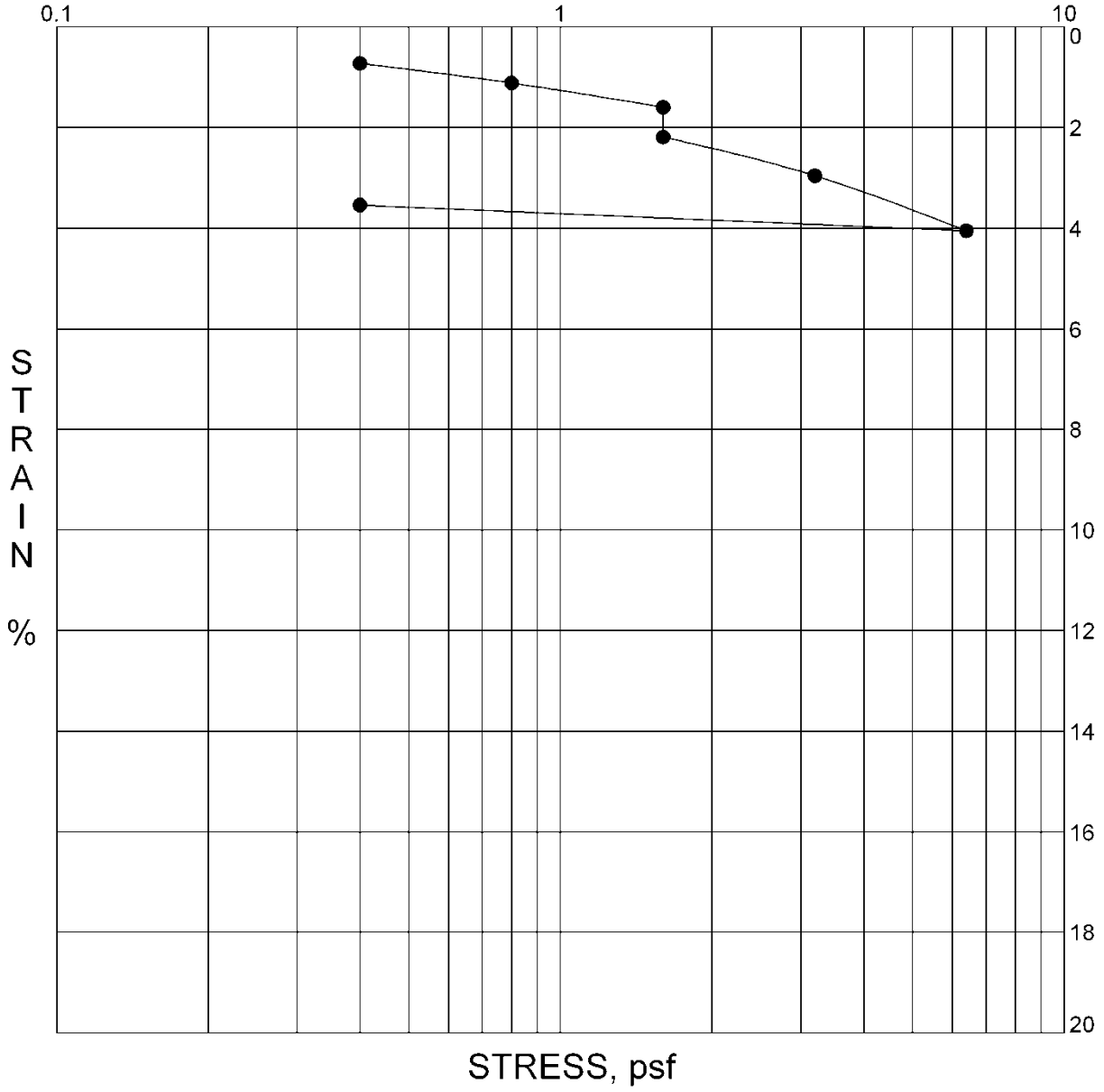
Figure C.1

PROJECT LOCATION: 505 - 517 W. 31st Street

PROJECT NO.: 5266

SAMPLE LOCATION: B-1 @ 15.0

DESCRIPTION: Qal




## Test Results

| Moisture Content (%) | Density (pcf) | Water Added At |
|---|---|---|
| Insitu: 2.4 | Dry Density: 114.2 | 1600 lbs. |

**CONSOLIDATION TEST DIAGRAM**

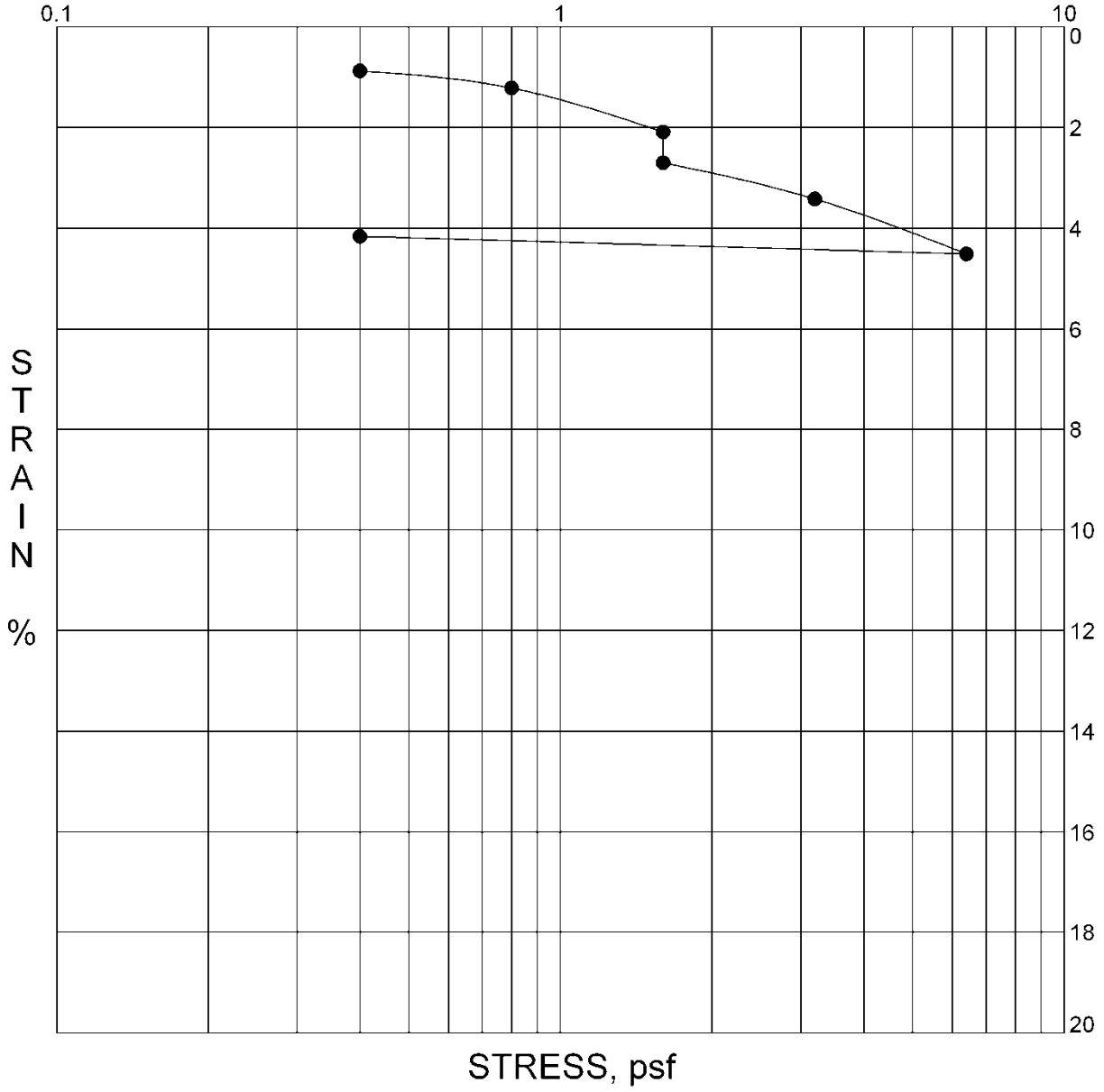
Figure C.2

PROJECT LOCATION: 505 - 517 W. 31st Street

PROJECT NO.: 5266

SAMPLE LOCATION: B-2 @ 10.0

DESCRIPTION: Qal




## Test Results

| Moisture Content (%) | Density (pcf) | Water Added At |
|---|---|---|
| Insitu: 0.2 | Dry Density: 107.6 | **1600 lbs.** |

**CONSOLIDATION TEST DIAGRAM**

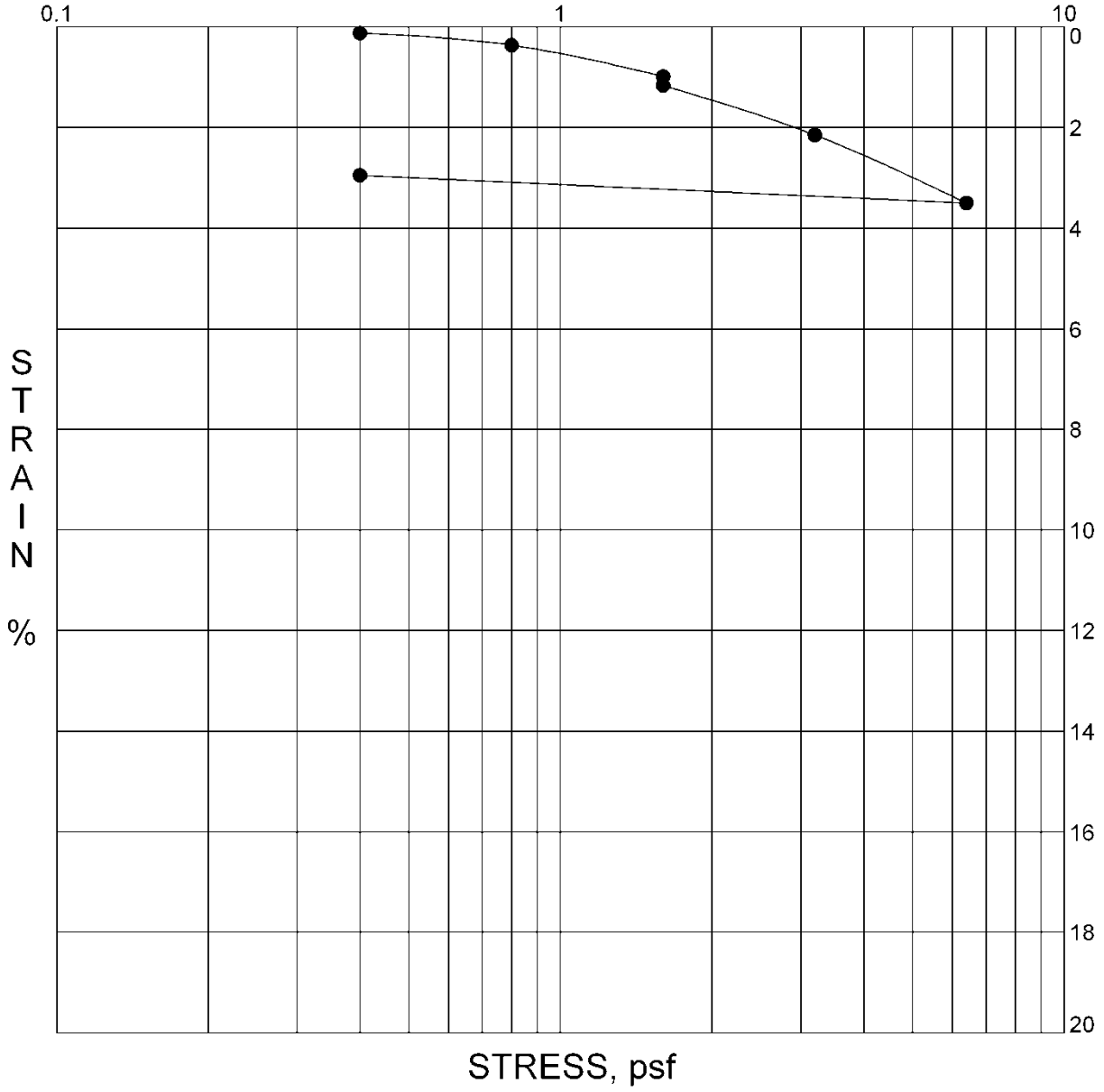
Figure C.3

PROJECT LOCATION: 505 - 517 W. 31st Street

PROJECT NO.: 5266

SAMPLE LOCATION: B-2 @ 15.0

DESCRIPTION: Qal




## Test Results

| Moisture Content (%) | Density (pcf) | Water Added At |
|---|---|---|
| Insitu: 3.8 | Dry Density: 119.8 | **1600 lbs.** |

**CONSOLIDATION TEST DIAGRAM**

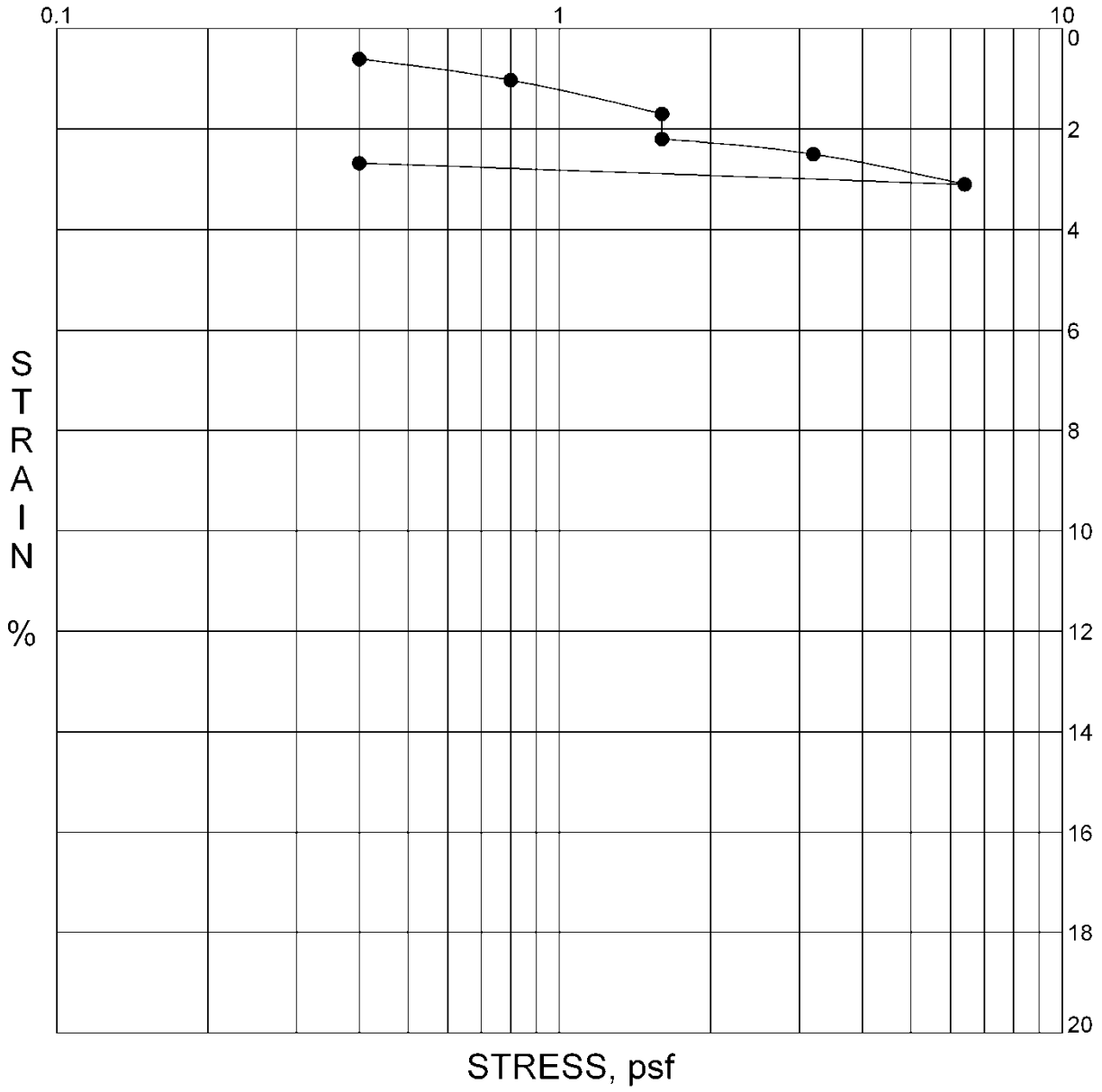
Figure C.4

PROJECT LOCATION: 505 - 517 W. 31st Street

PROJECT NO.: 5266

SAMPLE LOCATION: B-3 @ 20.0

DESCRIPTION: Qal




## Test Results

| Moisture Content (%) | Density (pcf) | Water Added At |
|---|---|---|
| Insitu: 2.8 | Dry Density: 117.2 | **1600 lbs.** |

## CONSOLIDATION TEST DIAGRAM

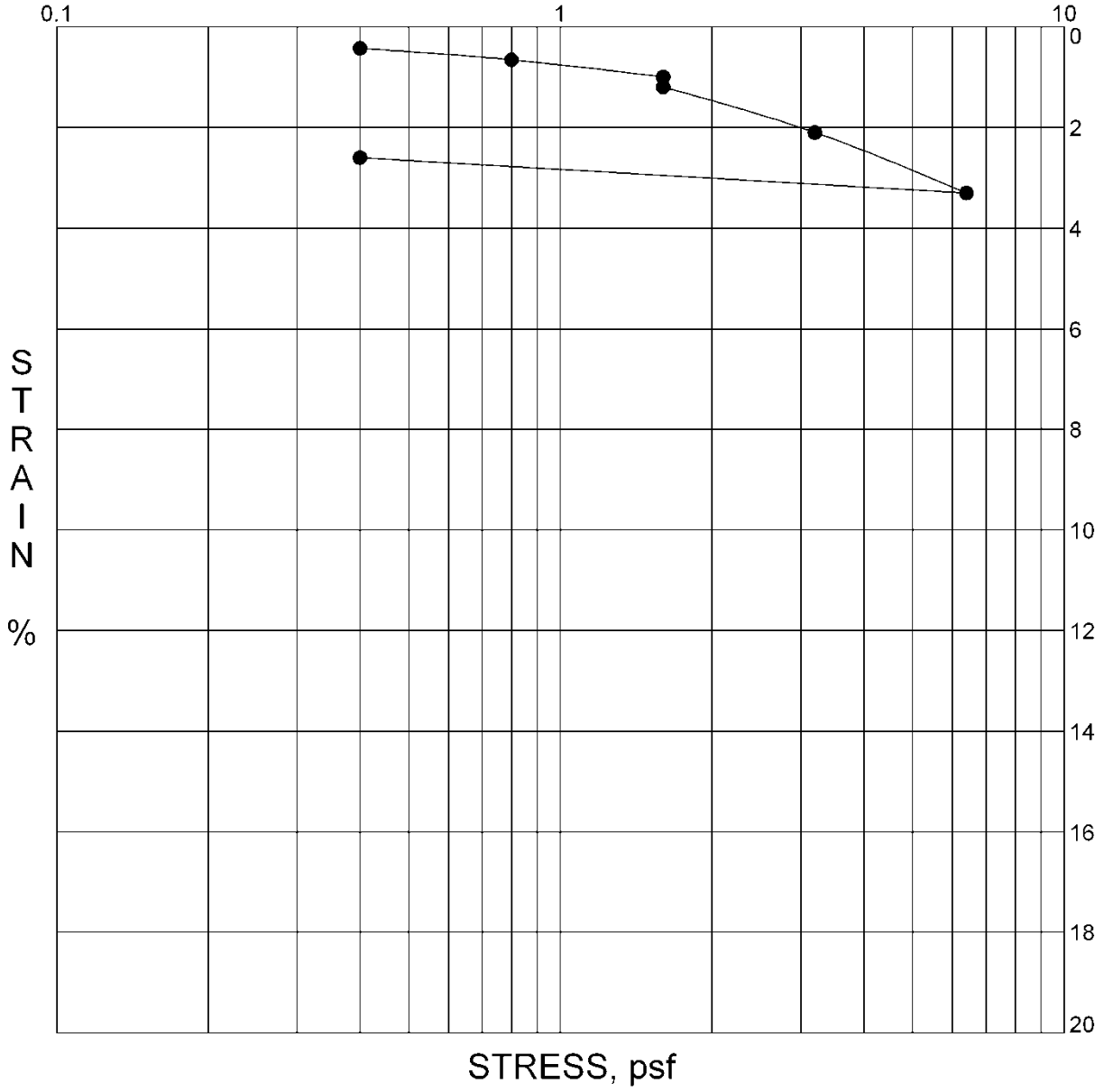
Figure C.5

PROJECT LOCATION: 505 - 517 W. 31st Street

PROJECT NO.: 5266

SAMPLE LOCATION: B-3 @ 25.0

DESCRIPTION: Qal




## Test Results

| Moisture Content (%) | Density (pcf) | Water Added At |
|---|---|---|
| Insitu: 1.9 | Dry Density: 125.7 | **1600 lbs.** |

**CONSOLIDATION TEST DIAGRAM**

Figure C.6

# APPENDIX III

## ANALYSES

Bearing Capacity

Lateral Design

Seismic Evaluation

# BEARING CAPACITY ANALYSIS

CALCULATE THE ULTIMATE AND ALLOWABLE BEARING CAPACITIES OF THE BEARING MATERIAL LISTED BELOW USING HANSEN'S METHOD. (REFERENCE: J. BOWLES, *FOUNDATION ANALYSIS AND DESIGN*, 1988, p. 188-194).

## CALCULATION PARAMETERS

| | | | |
|---|---|---|---|
| EARTH MATERIAL: | Qal | EMBEDMENT DEPTH: | 2 feet |
| SHEAR DIAGRAM: | B-3@30 | PAD LENGTH: | 2 feet |
| COHESION: | 25 psf | PAD WIDTH: | 2 feet |
| PHI ANGLE: | 35 degrees | SLOPE ANGLE: | 0 degrees |
| DENSITY: | 130 pcf | PAD INCLINATION: | 0 degrees |
| SAFETY FACTOR: | 5 | | |
| FOOTING TYPE: | P Pad | | |

## CALCULATED RESULTS

HANSEN'S SHAPE, DEPTH, AND INCLINATION FACTORS

| | | | | | |
|---|---|---|---|---|---|
| Nq = | 33.30 | Dq = | 1.25 | Sy = | 0.60 |
| Nc = | 46.12 | Gc = | 1.00 | Dy = | 1.00 |
| Ny = | 33.92 | Bc = | 1.00 | Iy = | 1.00 |
| Sc = | 1.72 | Iq = | 1.00 | Gy = | 1.00 |
| Sq = | 1.70 | Ic = | 1.00 | Gq = | 1.00 |
| Dc = | 1.40 | Bq = | 1.00 | By = | 1.00 |

| | | |
|---|---|---|
| CALCULATED ULTIMATE BEARING CAPACITY (Qult) | 23,892.3 | pounds |
| ALLOWABLE BEARING CAPACITY (Qa = Qult / fs) | 4,778.5 | pounds |
| PERCENT INCREASE FOR EMBEDMENT DEPTH | 38.2% | |

# BEARING CAPACITY ANALYSIS

CALCULATE THE ULTIMATE AND ALLOWABLE BEARING CAPACITIES OF THE BEARING MATERIAL LISTED BELOW USING HANSEN'S METHOD. (REFERENCE: J. BOWLES, *FOUNDATION ANALYSIS AND DESIGN*, 1988, p. 188-194).

## CALCULATION PARAMETERS

| | | | |
|---|---|---|---|
| EARTH MATERIAL: | Qal | EMBEDMENT DEPTH: | 2 feet |
| SHEAR DIAGRAM: | B-3@30 | FOOTING LENGTH: | 100 feet |
| COHESION: | 25 psf | FOOTING WIDTH: | 2 feet |
| PHI ANGLE: | 35 degrees | SLOPE ANGLE: | 0 degrees |
| DENSITY: | 130 pcf | FOOTING INCLINATION: | 0 degrees |
| SAFETY FACTOR: | 5 | | |
| FOOTING TYPE: | S Strip | | |

## CALCULATED RESULTS

HANSEN'S SHAPE, DEPTH, AND INCLINATION FACTORS

| | | | | | |
|---|---|---|---|---|---|
| Nq = | 33.30 | Dq = | 1.25 | Sy = | 0.99 |
| Nc = | 46.12 | Gc = | 1.00 | Dy = | 1.00 |
| Ny = | 33.92 | Bc = | 1.00 | Iy = | 1.00 |
| Sc = | 1.01 | Iq = | 1.00 | Gy = | 1.00 |
| Sq = | 1.01 | Ic = | 1.00 | Gq = | 1.00 |
| Dc = | 1.40 | Bq = | 1.00 | By = | 1.00 |

| | |
|---|---|
| CALCULATED ULTIMATE BEARING CAPACITY (Qult) | 17,025.6 pounds |
| ALLOWABLE BEARING CAPACITY (Qa = Qult / fs) | 3,405.1 pounds |
| PERCENT INCREASE FOR EMBEDMENT DEPTH | 32.0% |

# PASSIVE EARTH PRESSURE

USE RANKINE'S METHOD TO CALCULATE THE PASSIVE EARTH PRESSURE. USE THE PROCEDURE IN NAVFAC DM-7, 1982, (p 7.2-21, Figure 2).

## CALCULATION PARAMETERS

| | | | |
|---|---|---|---|
| EARTH MATERIAL: | Qal | SAFETY FACTOR (fs): | 1.5 |
| SHEAR DIAGRAM: | B-3@30 | INITIAL SEARCH DEPTH: | 1 |
| COHESION: | 25 psf | FINAL SEARCH DEPTH: | 5 |
| PHI ANGLE: | 35 degrees | LIMIT PASSIVE (Y OR N): | Y |
| DENSITY: | 130 pcf | MAXIMUM PASSIVE: | 100,000.0 pounds |
| | | Cd (C/fs): | 16.7 psf |
| | | PhiD = atan(tan(phi)/fs) = | 25.0 degrees |

| FOOTING DEPTH (feet) | TOTAL PASSIVE FORCE Pp (pounds) | PASSIVE EARTH PRESSURE AT DEPTH - SigmaP (psf) | INCREASE IN PASSIVE EARTH PRESSURE WITH EMBEDMENT DEPTH (psf/f) |
|---|---|---|---|
| 1 | 212.6 | 372.9 | 372.9 |
| 2 | 745.9 | 693.5 | 320.6 |
| 3 | 1,599.7 | 1,014.1 | 320.6 |
| 4 | 2,774.2 | 1,334.7 | 320.6 |
| 5 | 4,269.2 | 1,655.3 | 320.6 |

## PASSIVE PRESSURE-TRIAL WEDGE

CALCULATE THE PASSIVE EARTH PRESSURE USING THE TRIAL WEDGE METHOD. BOTH COHESIVE AND FRICTIONAL RESISTANCE ARE ASSUMED ALONG THE BASE AND SIDES OF THE PASSIVE FAILURE WEDGE. THE LATERAL EARTH PRESSURE ON THE SIDES OF THE WEDGE IS THE AT-REST PRESSURE Ko (Ko = 1-SIN(PHI)).

### CALCULATION PARAMETERS

| | | | |
|---|---|---|---|
| EARTH MATERIAL: | Qal | SAFETY FACTOR (fs): | 1.5 |
| SHEAR DIAGRAM: | B-3@30 | SLOPE ANGLE: | 0 degrees |
| COHESION: | 25 psf | Cd Base (C/fs): | 16.7 psf |
| PHI ANGLE: | 35 degrees | PhiD = atan(tan(phi)fs) = | 25.0 degrees |
| DENSITY: | 130 pcf | INITIAL SEARCH DEPTH: | 1 feet |
| **PASSIVE WEDGE BOUNDARY CONDITIONS** | | FINAL SEARCH DEPTH: | 21 feet |
| WEDGE WIDTH: | 1 feet | POINT SURCHARGE: | 0 |
| COHESION: | 25 psf | Cd Sides (C/fs): | 16.7 psf |
| PHI ANGLE: | 35 degrees | PhiD = atan(tan(phi)/fs) = | 25.0 degrees |

| TRIAL DEPTH* (feet) | CRITICAL FAILURE ANGLE** (degrees) | TOTAL EXTERNAL SURCHARGE (kips) | WEIGHT TRIAL WEDGE (kips) | TOTAL PASSIVE FORCE (pounds) | PASSIVE FORCE AT DEPTH (plf) | CHANGE Pp PER DEPTH INCREASE (plf) |
|---|---|---|---|---|---|---|
| 1 | 32 | 0.0 | 0.10 | 285.8 | 571.6 | 571.6 |
| 2 | 33 | 0.0 | 0.40 | 951.2 | 951.2 | 379.6 |
| 3 | 34 | 0.0 | 0.87 | 2,024.1 | 1,349.4 | 398.2 |
| 4 | 34 | 0.0 | 1.54 | 3,504.8 | 1,752.4 | 403.0 |
| 5 | 34 | 0.0 | 2.41 | 5,393.5 | 2,157.4 | 405.0 |
| 6 | 34 | 0.0 | 3.47 | 7,690.3 | 2,563.4 | 406.0 |
| 7 | 34 | 0.0 | 4.72 | 10,395.2 | 2,970.1 | 406.6 |
| 8 | 34 | 0.0 | 6.17 | 13,508.2 | 3,377.0 | 407.0 |
| 9 | 34 | 0.0 | 7.81 | 17,029.2 | 3,784.3 | 407.2 |
| 10 | 34 | 0.0 | 9.64 | 20,958.2 | 4,191.6 | 407.4 |
| 11 | 34 | 0.0 | 11.66 | 25,295.4 | 4,599.2 | 407.5 |
| 12 | 34 | 0.0 | 13.88 | 30,040.6 | 5,006.8 | 407.6 |
| 13 | 34 | 0.0 | 16.29 | 35,193.8 | 5,414.4 | 407.7 |
| 14 | 34 | 0.0 | 18.89 | 40,755.1 | 5,822.2 | 407.7 |
| 15 | 34 | 0.0 | 21.68 | 46,724.5 | 6,229.9 | 407.8 |
| 16 | 34 | 0.0 | 24.67 | 53,102.0 | 6,637.7 | 407.8 |
| 17 | 34 | 0.0 | 27.85 | 59,887.5 | 7,045.6 | 407.8 |
| 18 | 34 | 0.0 | 31.22 | 67,081.0 | 7,453.4 | 407.9 |
| 19 | 34 | 0.0 | 34.79 | 74,682.7 | 7,861.3 | 407.9 |
| 20 | 34 | 0.0 | 38.55 | 82,692.4 | 8,269.2 | 407.9 |
| 21 | 34 | 0.0 | 42.50 | 91,110.1 | 8,677.2 | 407.9 |

* NUMBER TRIAL WEDGES ANALYZED PER FOOT OF EMBEDMENT DEPTH = 45 TRIALS

** ANGLES ARE MEASURED FROM THE HORIZONTAL (NEGATIVE ANGLES ARE DOWNWARD TOWARD THE SLOPE)

**CONCLUSIONS: CALCULATIONS INDICATE THAT THE ALLOWABLE PASSIVE EARTH PRESSURE MAY BE COMPUTED PER THE ABOVE TABLE.**

# RETAINING WALL

CALCULATE THE DESIGN MINIMUM EQUIVALENT FLUID PRESSURE (EFP) FOR PROPOSED RETAINING WALLS. THE WALL HEIGHT AND BACKSLOPE AND SURCHARGE CONDITIONS ARE LISTED BELOW. ASSUME THE BACKFILL IS SATURATED WITH NO EXCESS HYDROSTATIC PRESSURE. THE MONONOBE-OKABE METHOD USED TO CALCULATE SEISMIC FORCES.

## CALCULATION PARAMETERS

| | | | |
|---|---|---|---|
| EARTH MATERIAL: | Qal | WALL HEIGHT | 14 feet |
| SHEAR DIAGRAM: | B-1@5 | BACKSLOPE ANGLE: | 0 degrees |
| COHESION: | 100 psf | SURCHARGE: | 0 pounds |
| PHI ANGLE: | 31 degrees | SURCHARGE TYPE: | U Uniform |
| DENSITY | 130 pcf | INITIAL FAILURE ANGLE: | 40 degrees |
| SAFETY FACTOR: | 1.5 | FINAL FAILURE ANGLE: | 70 degrees |
| WALL FRICTION | 0 degrees | INITIAL TENSION CRACK: | 5 feet |
| CD (C/FS): | 66.7 psf | FINAL TENSION CRACK: | 40 feet |

PHID = ATAN(TAN(PHI)/FS) = 21.8 degrees

HORIZONTAL PSEUDO STATIC SEISMIC COEFFICIENT ($k_h$) 0 %g

VERTICAL PSEUDO STATIC SEISMIC COEFFICIENT ($k_v$) 0 %g

## CALCULATED RESULTS

| | | |
|---|---|---|
| CRITICAL FAILURE ANGLE | 57 | degrees |
| AREA OF TRIAL FAILURE WEDGE | 62.7 | square feet |
| TOTAL EXTERNAL SURCHARGE | 0.0 | pounds |
| WEIGHT OF TRIAL FAILURE WEDGE | 8154.2 | pounds |
| NUMBER OF TRIAL WEDGES ANALYZED | 1116 | trials |
| LENGTH OF FAILURE PLANE | 14.7 | feet |
| DEPTH OF TENSION CRACK | 1.7 | feet |
| HORIZONTAL DISTANCE TO UPSLOPE TENSION CRACK | 8.0 | feet |
| **CALCULATED HORIZONTAL THRUST ON WALL** | **4633.8** | **pounds** |
| **CALCULATED EQUIVALENT FLUID PRESSURE** | **47.3** | **pcf** |
| **DESIGN EQUIVALENT FLUID PRESSURE** | | **pcf** |

# RETAINING WALL

CALCULATE THE DESIGN MINIMUM EQUIVALENT FLUID PRESSURE (EFP) FOR PROPOSED RETAINING WALLS. THE WALL HEIGHT AND BACKSLOPE AND SURCHARGE CONDITIONS ARE LISTED BELOW. ASSUME THE BACKFILL IS SATURATED WITH NO EXCESS HYDROSTATIC PRESSURE. THE MONONOBE-OKABE METHOD USED TO CALCULATE SEISMIC FORCES.

## CALCULATION PARAMETERS

| | | | |
|---|---|---|---|
| EARTH MATERIAL: | Qal | WALL HEIGHT | 14 feet |
| SHEAR DIAGRAM: | B-1@5 | BACKSLOPE ANGLE: | 0 degrees |
| COHESION: | 100 psf | SURCHARGE: | 0 pounds |
| PHI ANGLE: | 31 degrees | SURCHARGE TYPE: | U Uniform |
| DENSITY | 130 pcf | INITIAL FAILURE ANGLE: | 40 degrees |
| SAFETY FACTOR: | 1 | FINAL FAILURE ANGLE: | 70 degrees |
| WALL FRICTION | 0 degrees | INITIAL TENSION CRACK: | 5 feet |
| CD (C/FS): | 100.0 psf | FINAL TENSION CRACK: | 40 feet |

PHID = ATAN(TAN(PHI)/FS) = 31.0 degrees

HORIZONTAL PSEUDO STATIC SEISMIC COEFFICIENT ($k_h$) 0.27 %g

VERTICAL PSEUDO STATIC SEISMIC COEFFICIENT ($k_v$) 0 %g

## CALCULATED RESULTS

| | | |
|---|---|---|
| CRITICAL FAILURE ANGLE | 48 | degrees |
| AREA OF TRIAL FAILURE WEDGE | 86.8 | square feet |
| TOTAL EXTERNAL SURCHARGE | 0.0 | pounds |
| WEIGHT OF TRIAL FAILURE WEDGE | 11285.0 | pounds |
| NUMBER OF TRIAL WEDGES ANALYZED | 1116 | trials |
| LENGTH OF FAILURE PLANE | 16.4 | feet |
| DEPTH OF TENSION CRACK | 1.8 | feet |
| HORIZONTAL DISTANCE TO UPSLOPE TENSION CRACK | 11.0 | feet |
| **CALCULATED HORIZONTAL THRUST ON WALL** | **5023.6** | **pounds** |

## AT REST PRESSURE CALCULATION

### CALCULATION PARAMETERS

| | | | | |
|---|---|---|---|---|
| EARTH MATERIAL: | Qal | COHESION: | 100 | psf |
| SHEAR DIAGRAM: | B-1@5 | PHI ANGLE: | 31 | degrees |
| | | DENSITY: | 130 | pcf |

### CALCULATED RESULTS

| | | |
|---|---|---|
| AT REST PRESSURE | 64 | pcf |

**CONCLUSIONS:**

**THE CALCULATED PRESSURE DUE TO AT REST CONDITIONS ARE PRESENTED IN THE TABLE.**

# TEMPORARY EXCAVATION HEIGHT

CALCULATE THE HEIGHT TO WHICH TEMPORARY EXCAVATIONS ARE STABLE (NEGATIVE THRUST). THE EXCAVATION HEIGHT AND BACKSLOPE AND SURCHARGE CONDITIONS ARE LISTED BELOW. ASSUME THE EARTH MATERIAL IS SATURATED WITH NO EXCESS HYDROSTATIC PRESSURE.

## CALCULATION PARAMETERS

| | | | | | |
|---|---|---|---|---|---|
| EARTH MATERIAL: | Qal | | WALL HEIGHT: | 14 | feet |
| SHEAR DIAGRAM: | B-1@5 | | BACKSLOPE ANGLE: | 0 | degrees |
| COHESION: | 100 | psf | SURCHARGE: | 0 | pounds |
| PHI ANGLE: | 31 | degrees | SURCHARGE TYPE: | U | Uniform |
| DENSITY: | 110 | pcf | INITIAL FAILURE ANGLE: | 20 | degrees |
| SAFETY FACTOR: | 1.25 | | FINAL FAILURE ANGLE: | 70 | degrees |
| WALL FRICTION: | 0 | degrees | INITIAL TENSION CRACK: | 4 | feet |
| CD (C/FS): | 80.0 | psf | FINAL TENSION CRACK: | 30 | feet |
| PHID = ATAN(TAN(PHI)/FS) = | | 25.7 | degrees | | |

## CALCULATED RESULTS

| | | |
|---|---|---|
| CRITICAL FAILURE ANGLE | 43 | degrees |
| AREA OF TRIAL FAILURE WEDGE | 8.5 | square feet |
| TOTAL EXTERNAL SURCHARGE | 0.0 | pounds |
| WEIGHT OF TRIAL FAILURE WEDGE | 939.4 | pounds |
| NUMBER OF TRIAL WEDGES ANALYZED | 15147 | trials |
| LENGTH OF FAILURE PLANE | 5.5 | feet |
| DEPTH OF TENSION CRACK | 0.3 | feet |
| HORIZONTAL DISTANCE TO UPSLOPE TENSION CRACK | 4.0 | feet |
| **CALCULATED HORIZONTAL THRUST** | **-120.0** | **pounds** |
| **CALCULATED EQUIVALENT FLUID PRESSURE** | **-15.0** | **pcf** |
| **MAXIMUM HEIGHT OF TEMPORARY EXCAVATION** | **4.0** | **feet** |

# SHORING PILE

CALCULATE THE DESIGN MINIMUM EQUIVALENT FLUID PRESSURE (EFP) FOR PROPOSED RETAINING WALLS. THE WALL HEIGHT AND BACKSLOPE AND SURCHARGE CONDITIONS ARE LISTED BELOW. ASSUME THE BACKFILL IS SATURATED WITH NO EXCESS HYDROSTATIC PRESSURE. THE MONONOBE-OKABE METHOD USED TO CALCULATE SEISMIC FORCES.

## CALCULATION PARAMETERS

| | | | |
|---|---|---|---|
| EARTH MATERIAL: | Qal | RETAINED LENGTH | 14 feet |
| SHEAR DIAGRAM: | B-1@5 | BACKSLOPE ANGLE: | 0 degrees |
| COHESION: | 100 psf | SURCHARGE: | 0 pounds |
| PHI ANGLE: | 31 degrees | SURCHARGE TYPE: | U Uniform |
| DENSITY | 110 pcf | INITIAL FAILURE ANGLE: | 40 degrees |
| SAFETY FACTOR: | 1.25 | FINAL FAILURE ANGLE: | 70 degrees |
| PILE FRICTION | 0 degrees | INITIAL TENSION CRACK: | 5 feet |
| CD (C/FS): | 80.0 psf | FINAL TENSION CRACK: | 40 feet |

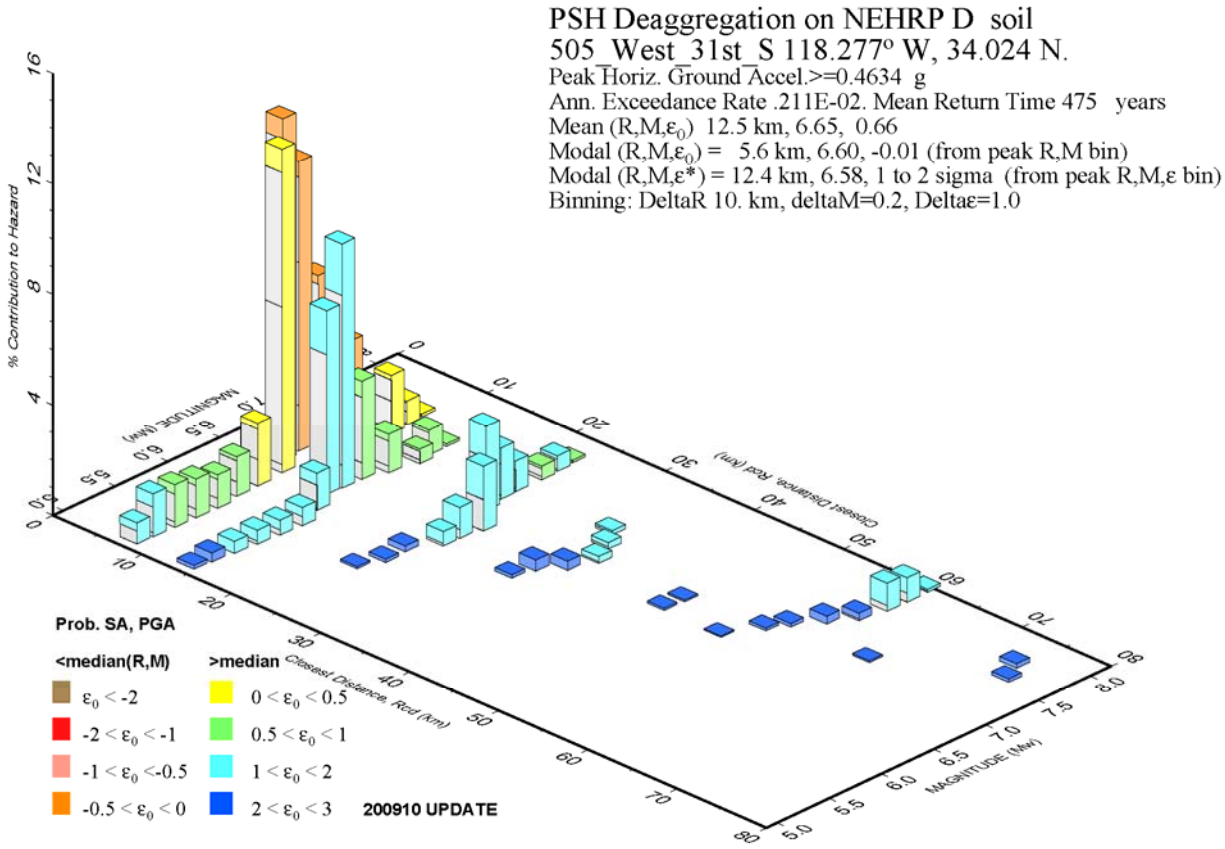
PHID = ATAN(TAN(PHI)/FS) = 25.7 degrees

HORIZONTAL PSEUDO STATIC SEISMIC COEFFICIENT ($k_h$) 0 %g

VERTICAL PSEUDO STATIC SEISMIC COEFFICIENT ($k_v$) 0 %g

## CALCULATED RESULTS

| | | |
|---|---|---|
| CRITICAL FAILURE ANGLE | 59 | degrees |
| AREA OF TRIAL FAILURE WEDGE | 57.2 | square feet |
| TOTAL EXTERNAL SURCHARGE | 0.0 | pounds |
| WEIGHT OF TRIAL FAILURE WEDGE | 6294.8 | pounds |
| NUMBER OF TRIAL WEDGES ANALYZED | 1116 | trials |
| LENGTH OF FAILURE PLANE | 13.6 | feet |
| DEPTH OF TENSION CRACK | 2.4 | feet |
| HORIZONTAL DISTANCE TO UPSLOPE TENSION CRACK | 7.0 | feet |
| **CALCULATED THRUST ON PILE** | **2966.3** | **pounds** |
| **CALCULATED EQUIVALENT FLUID PRESSURE** | **30.3** | **pcf** |
| **DESIGN EQUIVALENT FLUID PRESSURE** | | **pcf** |




GMT 2017 Jan 3 18:10:39 Distance (R), magnitude (M), epsilon (E0,E) deaggregation for a site on soil with average vs= 325. m/s top 30 m. USGS CGHT PSHA2008 UPDATE Bins with lt 0.05% contrib. omitted

# USGS Design Maps Detailed Report

## ASCE 7-10 Standard (34.02375°N, 118.27755°W)

Site Class D – "Stiff Soil", Risk Category I/II/III

### Section 11.4.1 — Mapped Acceleration Parameters

Note: Ground motion values provided below are for the direction of maximum horizontal spectral response acceleration. They have been converted from corresponding geometric mean ground motions computed by the USGS by applying factors of 1.1 (to obtain $S_S$) and 1.3 (to obtain $S_1$). Maps in the 2010 ASCE-7 Standard are provided for Site Class B. Adjustments for other Site Classes are made, as needed, in Section 11.4.3.

**From Figure 22-1** [1] $S_S$ = 2.132 g

**From Figure 22-2** [2] $S_1$ = 0.753 g

### Section 11.4.2 — Site Class

The authority having jurisdiction (not the USGS), site-specific geotechnical data, and/or the default has classified the site as Site Class D, based on the site soil properties in accordance with Chapter 20.

Table 20.3–1 Site Classification

| Site Class | $\bar{v}_s$ | $\bar{N}$ or $\bar{N}_{ch}$ | $\bar{s}_u$ |
|---|---|---|---|
| A. Hard Rock | >5,000 ft/s | N/A | N/A |
| B. Rock | 2,500 to 5,000 ft/s | N/A | N/A |
| C. Very dense soil and soft rock | 1,200 to 2,500 ft/s | >50 | >2,000 psf |
| D. Stiff Soil | 600 to 1,200 ft/s | 15 to 50 | 1,000 to 2,000 psf |
| E. Soft clay soil | <600 ft/s | <15 | <1,000 psf |
| | Any profile with more than 10 ft of soil having the characteristics:<br>• Plasticity index $PI$ > 20,<br>• Moisture content $w$ ≥ 40%, and<br>• Undrained shear strength $\bar{s}_u$ < 500 psf | | |
| F. Soils requiring site response analysis in accordance with Section 21.1 | See Section 20.3.1 | | |

For SI: 1ft/s = 0.3048 m/s 1lb/ft² = 0.0479 kN/m²

## Section 11.4.3 — Site Coefficients and Risk-Targeted Maximum Considered Earthquake ($MCE_R$) Spectral Response Acceleration Parameters

Table 11.4-1: Site Coefficient $F_a$

| Site Class | Mapped $MCE_R$ Spectral Response Acceleration Parameter at Short Period | | | | |
|---|---|---|---|---|---|
| | $S_S \leq 0.25$ | $S_S = 0.50$ | $S_S = 0.75$ | $S_S = 1.00$ | $S_S \geq 1.25$ |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 |
| D | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 |
| E | 2.5 | 1.7 | 1.2 | 0.9 | 0.9 |
| F | See Section 11.4.7 of ASCE 7 | | | | |

Note: Use straight-line interpolation for intermediate values of $S_S$

**For Site Class = D and $S_S$ = 2.132 g, $F_a$ = 1.000**

Table 11.4-2: Site Coefficient $F_v$

| Site Class | Mapped $MCE_R$ Spectral Response Acceleration Parameter at 1-s Period | | | | |
|---|---|---|---|---|---|
| | $S_1 \leq 0.10$ | $S_1 = 0.20$ | $S_1 = 0.30$ | $S_1 = 0.40$ | $S_1 \geq 0.50$ |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 |
| D | 2.4 | 2.0 | 1.8 | 1.6 | 1.5 |
| E | 3.5 | 3.2 | 2.8 | 2.4 | 2.4 |
| F | See Section 11.4.7 of ASCE 7 | | | | |

Note: Use straight-line interpolation for intermediate values of $S_1$

**For Site Class = D and $S_1$ = 0.753 g, $F_v$ = 1.500**

| | |
|---|---|
| **Equation (11.4–1):** | $S_{MS} = F_a S_S = 1.000 \times 2.132 = 2.132$ g |
| **Equation (11.4–2):** | $S_{M1} = F_v S_1 = 1.500 \times 0.753 = 1.130$ g |

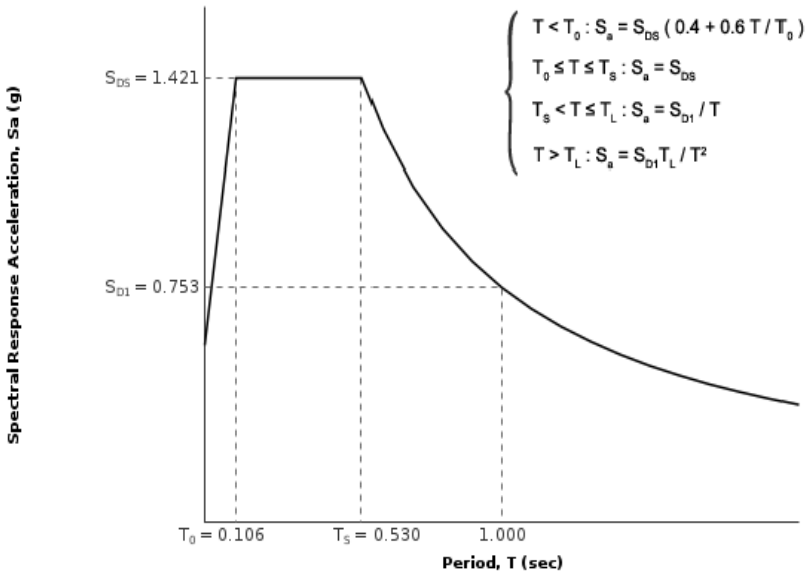
Section 11.4.4 — Design Spectral Acceleration Parameters

| | |
|---|---|
| **Equation (11.4–3):** | $S_{DS} = ⅔\, S_{MS} = ⅔ \times 2.132 = 1.421$ g |
| **Equation (11.4–4):** | $S_{D1} = ⅔\, S_{M1} = ⅔ \times 1.130 = 0.753$ g |

Section 11.4.5 — Design Response Spectrum

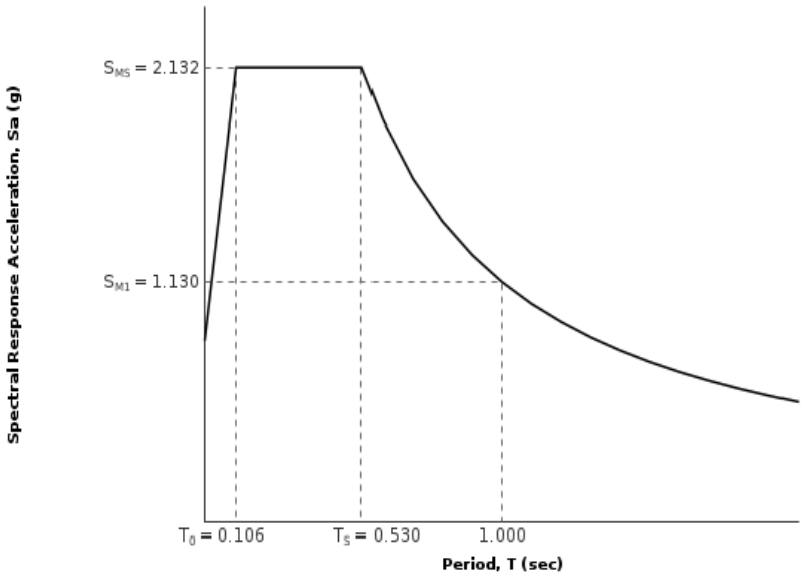
| | |
|---|---|
| **From** Figure 22-12 [3] | $T_L = 8$ seconds |

Figure 11.4–1: Design Response Spectrum



## Section 11.4.6 — Risk-Targeted Maximum Considered Earthquake ($MCE_R$) Response Spectrum

The $MCE_R$ Response Spectrum is determined by multiplying the design response spectrum above by 1.5.



Section 11.8.3 — Additional Geotechnical Investigation Report Requirements for Seismic Design Categories D through F

**From Figure 22-7** [4] PGA = 0.785

**Equation (11.8–1):** $PGA_M = F_{PGA}PGA = 1.000 \times 0.785 = 0.785$ g

Table 11.8–1: Site Coefficient $F_{PGA}$

| Site Class | Mapped MCE Geometric Mean Peak Ground Acceleration, PGA | | | | |
|---|---|---|---|---|---|
| | PGA ≤ 0.10 | PGA = 0.20 | PGA = 0.30 | PGA = 0.40 | PGA ≥ 0.50 |
| A | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| B | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| C | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 |
| D | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 |
| E | 2.5 | 1.7 | 1.2 | 0.9 | 0.9 |
| F | See Section 11.4.7 of ASCE 7 | | | | |

Note: Use straight–line interpolation for intermediate values of PGA

**For Site Class = D and PGA = 0.785 g, $F_{PGA}$ = 1.000**

Section 21.2.1.1 — Method 1 (from Chapter 21 – Site-Specific Ground Motion Procedures for Seismic Design)

**From Figure 22-17** [5] $C_{RS}$ = 0.973

**From Figure 22-18** [6] $C_{R1}$ = 0.988

## Section 11.6 — Seismic Design Category

Table 11.6-1 Seismic Design Category Based on Short Period Response Acceleration Parameter

| VALUE OF $S_{DS}$ | RISK CATEGORY | | |
|---|---|---|---|
| | I or II | III | IV |
| $S_{DS} < 0.167g$ | A | A | A |
| $0.167g \le S_{DS} < 0.33g$ | B | B | C |
| $0.33g \le S_{DS} < 0.50g$ | C | C | D |
| $0.50g \le S_{DS}$ | D | D | D |

**For Risk Category = I and $S_{DS}$ = 1.421 g, Seismic Design Category = D**

Table 11.6-2 Seismic Design Category Based on 1-S Period Response Acceleration Parameter

| VALUE OF $S_{D1}$ | RISK CATEGORY | | |
|---|---|---|---|
| | I or II | III | IV |
| $S_{D1} < 0.067g$ | A | A | A |
| $0.067g \le S_{D1} < 0.133g$ | B | B | C |
| $0.133g \le S_{D1} < 0.20g$ | C | C | D |
| $0.20g \le S_{D1}$ | D | D | D |

**For Risk Category = I and $S_{D1}$ = 0.753 g, Seismic Design Category = D**

Note: When $S_1$ is greater than or equal to 0.75g, the Seismic Design Category is **E** for buildings in Risk Categories I, II, and III, and **F** for those in Risk Category IV, irrespective of the above.

Seismic Design Category ≡ "the more severe design category in accordance with Table 11.6-1 or 11.6-2" = E

---

Note: See Section 11.6 for alternative approaches to calculating Seismic Design Category.

## References

1. *Figure 22-1*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-1.pdf
2. *Figure 22-2*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-2.pdf
3. *Figure 22-12*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-12.pdf
4. *Figure 22-7*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-7.pdf
5. *Figure 22-17*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-17.pdf
6. *Figure 22-18*: http://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-18.pdf

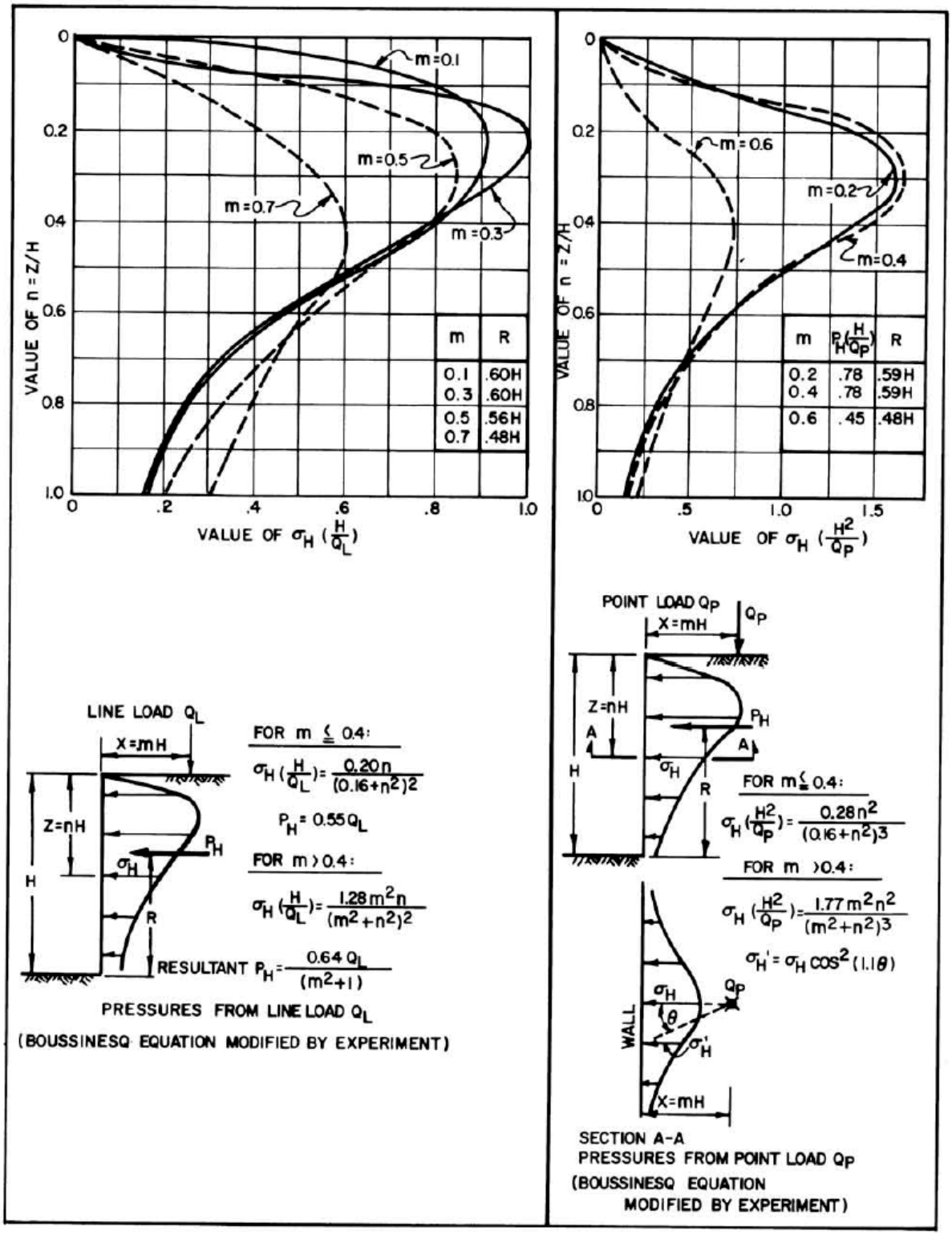



FIGURE 11
Horizontal Pressures on Rigid Wall from Surface Load

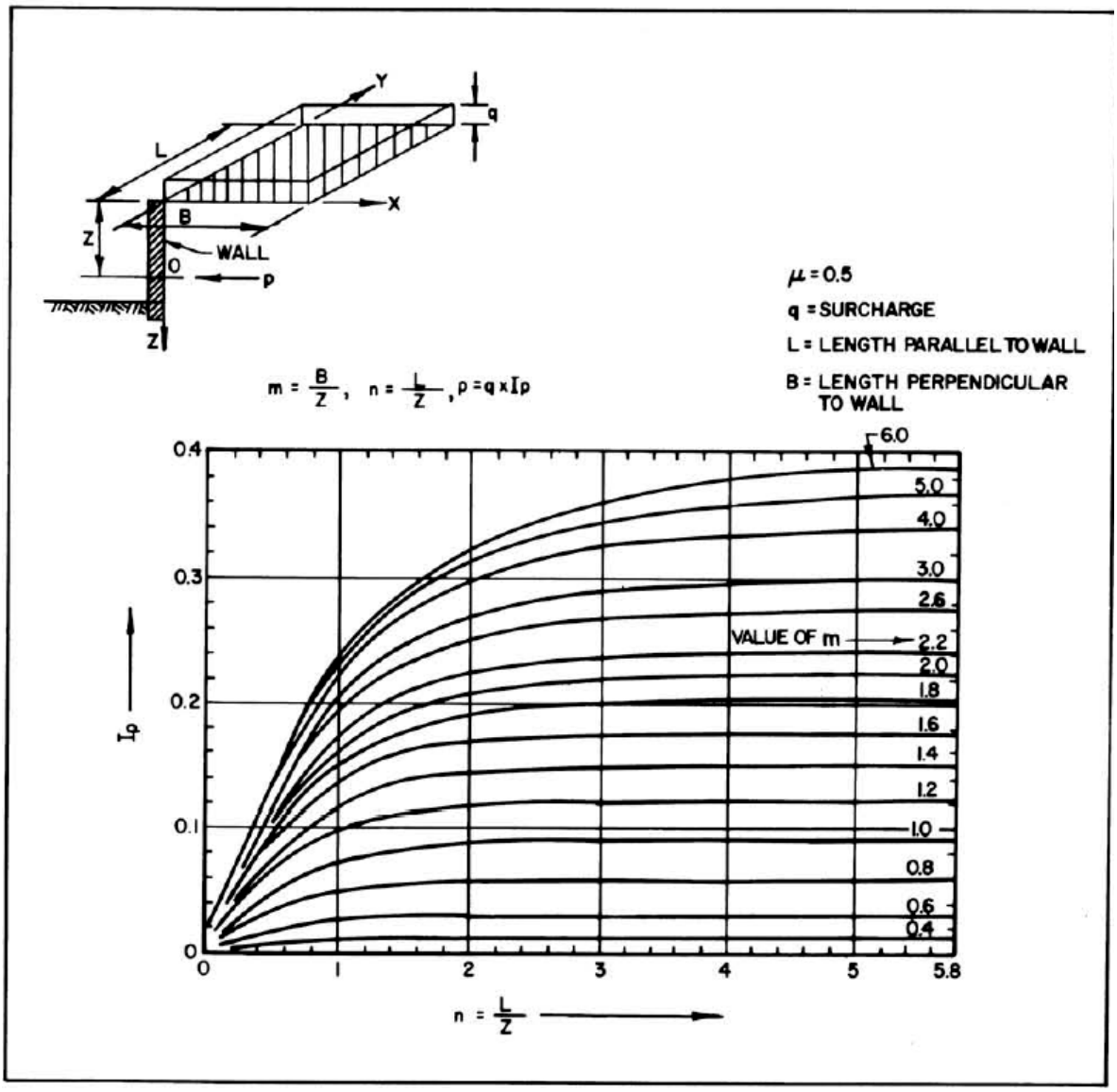



FIGURE 12
Lateral Pressure on an Unyielding Wall due to
Uniform Rectangular Surface Load

# APPENDIX IV

## REFERENCES

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# Appendix E

Phase I & II Site Assessment

# Phase I & II Environmental Site Assessment

**505, 511 & 515 W. 31st Street**
**Los Angeles, California**

*Prepared for:*

Canfield Development, Inc.

*Prepared by:*

Rincon Consultants, Inc.
November 28, 2016

Environmental Scientists Planners Engineers

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November 28, 2016
Project 16-02377

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Via email: jared.brenner-goldstein@canfield-development.com

**Subject:** **Phase I and II Environmental Site Assessment**
**505, 511 & 515 W. 31st Street, Los Angeles, California**

Dear Mr. Goldstein:

This report presents the findings of a Phase I and II Environmental Site Assessment (ESA) completed by Rincon Consultants, Inc. for the properties located at 505, 511 and 515 W. 31st Street, in Los Angeles, California. The Phase I and II ESA was performed in accordance with our proposal and professional services agreement dated September 28, 2016.

The accompanying report presents our findings and provides an opinion regarding the presence of recognized environmental conditions. Our work program for this project is intended to meet the guidelines outlined in the American Society for Testing and Materials (ASTM), Standard Practice for Environmental Site Assessments: *Phase I Environmental Site Assessment Process* (ASTM Standard E-1527-13). Our scope of services, pursuant to ASTM practice, did not include any inquiries with respect to asbestos containing building materials, biological agents, cultural and historic resources, ecological resources, endangered species, health and safety, indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment, industrial hygiene, lead-based paint, lead in drinking water, mold, radon, regulatory compliance, wetlands, or high voltage power lines.

Thank you for selecting Rincon for this project. If you have any questions, or if we can be of any future assistance, please contact us.

Sincerely,
**RINCON CONSULTANTS, INC.**

Sarah A. Larese
Senior Environmental Scientist

Walt Hamann, PG, CEG, CHG
Vice President, Environmental Services

REGISTERED GEOLOGIST
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## *Los Angeles, California*

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# EXECUTIVE SUMMARY

This report presents the findings of a Phase I and Phase II Environmental Site Assessment (ESA) for the property located at 505, 511 and 515 West 31st Street, Los Angeles, California (Figure 1, Vicinity Map). The subject property is currently developed with a two-story residential building (515 West 31st Street), and vacant undeveloped land (505 and 511 West 31st Street).

Rincon Consultants performed a reconnaissance of the subject property on October 20, 2016. The purpose of the reconnaissance was to observe existing subject property conditions and to obtain information indicating the presence of recognized environmental conditions in connection with the subject property. The use, storage or disposal of hazardous materials on the subject property was not observed during the site reconnaissance.

The subject property is located in an area that is primarily comprised of residential and commercial land uses. Properties in the vicinity of the subject property include residential land uses, restaurants, parking lots, and commercial businesses.

Environmental Data Resources, Inc. (EDR) was contracted to provide a database search of public lists of sites that generate, store, treat or dispose of hazardous materials or sites for which a release or incident has occurred. The EDR search was conducted for the subject property and included data from surrounding sites within a specified radius of the property. The subject property was not listed in any of the databases searched by EDR. Adjacent and nearby properties were listed on the historical auto stations or historical cleaners databases. The historical auto stations database listings may include parking garages, occupations of residents, auto stations, gas stations, repair stations, etc. and the historical cleaners database listings may include dry cleaning facilities, occupations, coin operated laundromats, home businesses and so on. A list of the historical auto stations and historical cleaners in the vicinity of the subject property is included in the EDR report. The following adjacent and nearby properties were listed in the EDR report:

***Adjacent Properties:***

- ***York VG located at 3029 South Flower Street***: This site is located adjacent to the east of subject property. The EDR Historical Cleaner listing indicates that the property was a Clothes Pressers and Cleaners business in 1937. No additional information regarding this listing is provided by EDR.
- ***Levy Sam located at 3026 S Figueroa Street***: This site is located adjacent to the west of the subject property. The EDR Historic Auto Station listing indicates that the property was a gasoline and oil service station in 1929 and 1942. No additional information regarding this listing is provided by EDR.

***Up-gradient Properties:***

- ***Mobil#18-BV7 service station located at 2620 Figueroa Street:*** This Mobil station site is located approximately one-quarter mile north-northeast of subject property. Based on the anticipated groundwater flow direction to the south to southwest, this site is located hydrologically upgradient to the subject property. The LUST listing for the service station indicates that a gasoline release affecting the soil was discovered in June 2000. The case was closed in September 2006. The Closure Request Report, dated September 30, 2005, reported

that soil sample results indicated that the highest concentrations of all analytes were found from 40 to 60 feet below ground surface and attenuated rapidly below that depth range. Groundwater monitoring reports from 2006 indicate that groundwater has been encountered at approximately 216 feet below grade. Groundwater monitoring had not detected analytes above their respective laboratory reporting limits and, therefore, impacts to groundwater were not considered a concern. Further, no sensitive receptors such as public water wells, surface water bodies, wetlands, or significant ecological resource have been identified within one mile of the Mobil site. Based on the documents reviewed, the release associated with this Mobil site is not expected to be adversely impacting soil or groundwater beneath the subject property.

- ***Orthopedic hospital magnet high school located at West Adams Boulevard/South Grand Avenue*:** The high school site is located approximately one quarter mile north-northeast of subject property. According to the Envirostor database, the site is approximately 4-acres and has multiple historical land uses including textile assembly; auto parts supply warehouse; and administrative offices, since the mid-1900s. The site was also developed with single and multiple family residences in the late 1800s. Soil was identified to be potentially contaminated with Lead and Polycyclic Aromatic Hydrocarbons (PAHs). Remedial action was authorized by DTSC and certified as of 2003. Based on the medium of contamination (soil-only was impacted) and the distance from the subject property, this high school site is not expected to be adversely impacting soil or groundwater beneath the subject property.

Historical sources reviewed as part of the Phase I ESA include aerial photographs, fire insurance maps, city directory listings, and topographic maps. The photos and maps reviewed indicate that the subject property has been in residential use from 1894 through the present day. The parcel at 505 West 31st Street has been vacant since 2009 through the present day. The parcel at 511 W 31st Street was developed since at least 1894, the structure is still visible in recent aerials (dated 2012); however, during the site reconnaissance, the structure had been demolished. The building at 515 W 31st Street has been present since at least 1906 through present day.

Based on the findings of this Phase I ESA, it is our opinion that there are no recognized environmental conditions (RECs) in connection with the subject property. However, the following potential RECs have been identified:

- **The location of the site within a methane zone** - According to the City of Los Angeles Zoning Information and Map Access System (ZIMAS), the site is located within a methane zone. It is possible that methane is present beneath the subject property due to natural geologic formations. Methane could be located beneath the site at levels that could require mitigation. The location of the subject property within a Methane Zone is considered a potential REC.

- **The adjacent site to the east was used a cleaners/clothes presser and Toms Cleaners from 1951 through 1971**. Although no releases have been reported for the historic adjacent cleaner, there is the potential that undocumented releases have occurred and volatile organic compound contamination could potentially be present at this adjacent

property. Based on the proximity to the subject property, the former presence of a cleaner adjacent to the subject property is considered a potential REC.

- **The adjacent site to the northeast was used as a gas and oil service station from at least 1948 through 1954.** Although no releases have been reported for this former adjacent gas station, there is the potential that undocumented releases have occurred and hydrocarbon contamination could potentially be present at this adjacent site. In addition, based on the proximity to the subject property, the former presence of an adjacent gas station is considered a potential REC.
- **The presence of a former gas station adjacent to the west of the subject property from 1922 through 1960, an auto salvage yard/auto repair through 1970.** Although no releases have been reported for this former adjacent gas station, there is the potential that undocumented releases have occurred and hydrocarbon contamination could potentially be present at this adjacent site. Based on the proximity to the subject property, the former presence of an adjacent gas station is considered a potential REC.

Based on the findings above and at the authorization of Canfield Development, Inc., we conducted a Phase II ESA at the property. The Phase II consisted of soil vapor sampling at the subject property. The purpose of the Phase II ESA was to determine if the historical usage of the property and neighboring properties have impacted soil vapor at the subject property, and to comply with the City of Los Angeles Department of Building and Safety (LADBS) Site Testing Standards for Methane. The Phase II ESA was performed on October 20, 2016. Methane sampling was conducted on October 20 and 21, 2016.

VOCs and methane were not detected in any of the samples analyzed.

Because no RECs were identified on the subject property, no additional assessment is recommended.

Based on our review of historical sources, the existing structure on the subject property was constructed in about 1894. Although not considered a recognized environmental condition (REC) pursuant to ASTM E 1527-13, structures constructed prior to 1978 may contain lead-based paint and structures constructed prior to 1981 may contain asbestos containing building materials (ACBM). Since the building was built before 1978, an asbestos and lead based paint demolition grade survey is recommended.

# INTRODUCTION

This report presents the findings of a Phase I and Phase II ESA conducted for the properties located at 505, 511 & 515 West 31st Street, Los Angeles, California (Figure 1, Vicinity Map). The Phase I ESA was performed by Rincon Consultants, Inc. for Canfield Development and 31st & Figueroa Holdings, LLC. The Phase I was performed in general conformance with ASTM E 1527-13 and our proposal and contract dated September 28, 2016. The following sections present our findings and provide our opinion as to the presence of recognized environmental conditions.

# PHASE I ESA

## PURPOSE

The purpose of this Phase I ESA was to assess the environmental conditions of a property, taking into account commonly and reasonably ascertainable information and to qualify for Landowner Liability Protections under the Brownfields Amendments to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

A recognized environmental condition (REC) is defined pursuant to ASTM E 1527-13 as,

> *"the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment; 3) under conditions that pose a material threat of a future release to the environment".*

A Controlled REC is defined pursuant to ASTM E 1527-13 as,

> *"a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report".*

A Historical REC is defined pursuant to ASTM E 1527-13 as,

> *"a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by regulatory authority, without subjecting the property to any required controls (for example, use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP [Environmental Professional] considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition".*

A de minimis condition is defined pursuant to ASTM E 1527-13 as,

> "*a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions*".

# SCOPE OF SERVICES

The scope of services conducted for this study is outlined below:

- Perform a reconnaissance of the site to identify obvious indicators of the existence of hazardous materials.
- Observe adjacent or nearby properties from public thoroughfares in an attempt to see if such properties are likely to use, store, generate, or dispose of hazardous materials.
- Obtain and review an environmental records database search from Environmental Data Resources, Inc. (EDR) to obtain information about the potential for hazardous materials to exist at the subject property or at properties located in the vicinity of the subject property.
- Review files for the subject property and immediately adjacent properties as identified in the EDR report, as applicable.
- Review the current U.S. Geological Survey (USGS) topographic map to obtain information about the subject property's topography and uses of the subject property and properties in the vicinity of the subject property.
- Review additional pertinent record sources (e.g., California Division of Oil and Gas records, online databases of hazardous substance release sites), as necessary, to identify the presence of RECs at the subject property.
- Review reasonably ascertainable historical resources (e.g., aerial photographs, topographic maps, fire insurance maps, city directories) to assess the historical land use of the subject property and adjacent properties.
- Provide a property owner interview questionnaire to the property owner or a designated subject property representative identified to Rincon by the client.
- Provide a user interview questionnaire to a representative of the client, the user of the Phase I ESA.
- Conduct interviews with other property representatives (e.g., key site manager, occupants), as applicable.
- Review Client-provided information (e.g., previous environmental reports, title documentation), as applicable.

# SIGNIFICANT ASSUMPTIONS, LIMITATIONS, DEVIATIONS, EXCEPTIONS, SPECIAL TERMS, AND CONDITIONS

This work is intended to adhere to good commercial, customary, and generally accepted environmental investigation practices for similar investigations conducted at this time and in this geographic area. No guarantee or warranties, expressed or implied are provided. The findings and opinions conveyed in this report are based on findings derived from a site reconnaissance, review of an environmental database report, specified regulatory records and historical sources, and comments made by interviewees. This report is not intended as a comprehensive site characterization and should not be construed as such. Standard data sources relied upon during the completion of Phase I ESAs may vary with regard to accuracy and completeness. Although Rincon believes the data sources are reasonably reliable, Rincon cannot and does not guarantee the authenticity or reliability of the data sources it has used.

Additionally, pursuant to our contract, the data sources reviewed included only those that are practically reviewable without the need for extraordinary analysis.

Rincon has not found evidence that hazardous materials or petroleum products exist at the subject property at levels likely to warrant mitigation. Rincon does not under any circumstances warrant or guarantee that not finding evidence of hazardous materials or petroleum products means that hazardous materials or petroleum products do not exist on the subject property. Additional research, including surface or subsurface sampling and analysis, can reduce the client's risks, but no techniques commonly employed can eliminate these risks altogether.

In addition, pursuant to ASTM E 1527-13 practice, our scope of services did not include any inquiries with respect to asbestos containing building materials, biological agents, cultural and historic resources, ecological resources, endangered species, health and safety, indoor air quality unrelated to release of hazardous substances or petroleum products into the environment, industrial hygiene, lead-based paint, lead in drinking water, mold, radon, regulatory compliance, wetlands, or high voltage power lines.

# USER RELIANCE

Canfield Development and 31st & Figueroa Holdings, LLC have requested this assessment and will use the assessment to provide information for the purposes of purchasing or acquiring and redeveloping said property. This Phase I ESA was prepared for use solely and exclusively by Canfield Development and 31st & Figueroa Holdings, LLC. No other use or disclosure is intended or authorized by Rincon. Also, this report is issued with the understanding that it is to be used only in its entirety. It is intended for use only by the client, and no other person or entity may rely upon the report without the express written consent of Rincon.

# SITE DESCRIPTION

## Location

The subject property is a multi-parcel property identified as 505, 511 & 515 West 31st Street, Los Angeles, California (Figure 2, Site Map). The property is identified as Assessor Parcel Number (APN) 5123020009, 5123020010, and 5123020011.

## Subject Property and Vicinity General Characteristics

The subject property is currently developed with two undeveloped lots (505 and 511 West 31st Street) and a two-story residential building that is currently occupied (515 & 517 West 31st Street).

The subject property is located in an area that is primarily comprised of residential and commercial land uses. Properties in the vicinity of the subject property include residential land uses, restaurants, parking lots, and commercial businesses. The current adjacent land uses are described in Table 1 and depicted on Figure 3, Adjacent Land Use Map.

**Table 1 - Current Uses of Adjacent Properties**

| Area | Use |
|---|---|
| Northern Properties | USC Graduate Fine Arts, 3001 South Flower Street |
| Eastern Properties | The Pros & Cons Clothing Co.; Pink Wall Gym Tattoo Studio and Gallery; Action Driving School at 3019, 3025, and 3131 South Flower Street |
| Western Properties | Fat Burger restaurant, 3026 S Figueroa Street |
| Southern Properties | West 31st Street followed by residential land use (516 West 31st Street) and a parking lot. |

### Descriptions of Structures, Roads, Other Improvements on the Site

During the site reconnaissance, a chain-link fence was noted around the perimeter of the subject property. The subject property is developed with a residential structure on 515 West 31st Street. The rest of the property is undeveloped. The residence formerly at 511 West 31st has been demolished and the site has been cleared and graded.

Access to the subject property is available from two driveways on West 31st Street. Water, Electrical, and sewer service is provided by Los Angeles Department of Water and Power. Solid waste collection and disposal services are provided by Athens. Natural Gas is provided by Southern California Gas.

# USER PROVIDED INFORMATION

As described in ASTM E 1527-13 Section 6, Canfield Development was interviewed for actual knowledge pertaining to the subject property to help identify recognized environmental conditions in connection with the property. A completed questionnaire has not been returned as of the date of this report.

The following document regarding the central and eastern parcels of the subject property (505 and 511 West 31st Street) was provided by Canfield Development, Inc.

- *Phase I ESA, 505 and 511 West 31st Street, Los Angles, California, JMK Environmental Solutions Inc., April 2006*– This report indicates that the subject property was residentially developed in 1894 along with residential and commercial development in the vicinity including a former drycleaners at 3029 South Flower Street, and a former gas station to the north of the subject property located at 3001 South Flower Street. No listings were found for the subject property and the report concluded that no site within a one mile radius would pose a significant threat to the subject property. No recognized environmental conditions in connection with the subject property were identified and no further investigation was recommended.

# RECORDS REVIEW

## PHYSICAL SETTING SOURCES

### Topography

The current USGS topographic map (Hollywood and South Inglewood Quadrangles, 2012, 7.5 minute) indicates that the subject property is situated at an elevation of about 185 feet above mean sea level with generally flat topography. Topography in the site vicinity gradually slopes to the southwest.

### Geology and Hydrogeology

### Site Geology

The project site is located along the southern margin of the Transverse Ranges Geomorphic Province. The Transverse Ranges are characterized by east-west trending structural features in contrast to the dominant northwest-southeast structural trend of California.
The Geologic Map of the Hollywood and South ½ Burbank Quadrangles (Dibblee, 1991) indicates that the site is underlain by Quaternary age alluvium consisting of unconsolidated deposits of clay, sand, and gravel. The site is situated within the Coastal Plain of Los Angeles. The Santa Monica Fault and Inglewood Fault are located approximately 6 miles north and 5 miles southwest of the site, respectively. The Las Cienegas Oil Field is located approximately 0.3-miles north of the subject property. The nearest surface water body is MacArthur Park or West Lake, about 2 miles northeast of the site.

According to the City of Los Angeles Zoning Information and Map Access System (Zimas), the site is located within a methane zone. Methane could be located beneath the site at levels that could require mitigation during redevelopment of the site.

### Regional Groundwater Occurrence and Quality

The site is located in the Central Subbasin of the Coastal Plain of Los Angeles Groundwater Basin. This subbasin is commonly referred to as the Central Basin. The Los Angeles and San Gabriel Rivers drain the surface of the Central Basin on their way to the Pacific Ocean. Average annual precipitation throughout the subbasin is around 12 inches (California's Groundwater Bulletin 118, 2004).

During the preparation of this Phase I ESA, we reviewed the California State Water Resources Control Board's (SWRCBs) online GeoTracker database to determine groundwater flow direction and depth in the vicinity of the subject property:

- Mobil #18-BV7 gasoline station located at 2620 Figueroa Street (about 0.25 mile northeast of the subject property) has groundwater monitoring reports from 2006 that indicate that

groundwater is approximately 215 feet below grade. No information was provided regarding groundwater flow direction.

- A 2009 groundwater monitoring report for a nearby Shell Service Station located at 1403 Adams Boulevard (about 1 mile northwest of the subject property) indicated that groundwater is approximately 110 feet below grade. This report indicated that the direction of groundwater flow is south.

Based on the Shell Service Station data and the site topography, groundwater beneath the subject property is anticipated to flow to the south or southwest in accordance with the topographic gradient.

# STANDARD ENVIRONMENTAL RECORD SOURCES

Environmental Data Resources, Inc. (EDR) was contracted to provide a database search of public lists of sites that generate, store, treat or dispose of hazardous materials or sites for which a release or incident has occurred. The EDR search was conducted for the subject property and included data from surrounding sites within specified radii of the property. A copy of the EDR report, which specifies the ASTM search distance for each public list, is included as Appendix 2. As shown on the attached EDR report, federal, state and county lists were reviewed as part of the research effort. Please refer to Appendix 2 for a complete listing of sites reported by EDR and a description of the databases reviewed.

The Map Findings Summary, included in the EDR report, provides a summary of the databases searched, the number of reported facilities within the search radii, and whether the facility is located onsite or adjacent to the subject property. The following information is based on our review of the Map Findings Summary and the information contained in the EDR report.

## Subject Property

The subject property was not listed on any of the regulatory databases reviewed.

## Offsite Properties

Offsite properties listed by EDR fall under two general categories of databases: those reporting unauthorized releases of hazardous substances (e.g., LUST, National Priority List [a.k.a. Superfund sites], and corrective action facilities), and databases of businesses permitted to use hazardous materials or generate hazardous wastes, for which an unauthorized release has not been reported to a regulatory agency.

Rincon reviewed the EDR Radius Map and select detailed listings to evaluate their potential to impact the subject property, based on the following factors:

- Reported distance of the facility from the subject property
- The nature of the database on which the facility is listed, and/or whether the facility was listed on a database reporting unauthorized releases of hazardous materials, petroleum products, or hazardous wastes

- Reported case type (e.g., soil only, failed UST test only)
- Reported substance released (e.g., chlorinated solvents, gasoline, metals)
- Reported regulatory agency status (e.g., case closed, "no further action")
- Location of the facility with respect to the reported groundwater flow direction (discussed in the Geology and Hydrogeology section of this report)

Facilities/properties that were interpreted by Rincon to be of potential environmental concern to the subject property, based on one or more of the factors listed above, are summarized in Table 2. In accordance with ASTM, contamination migration pathways in soil, groundwater, and soil vapor were considered in our analysis of offsite properties of potential environmental concern.

**Table 2 - EDR Listing Summary of Select Sites within Quarter Mile of the Subject Site**

| Site Name | EDR Site ID | Site Address | Distance from Subject Property (miles) | Database Reference |
|---|---|---|---|---|
| **Subject Property** | | | | |
| Subject property was not listed in any of the databases searched by EDR | | | | |
| **Adjacent Properties** | | | | |
| York V G | A1 | 3029 South Flower Street | Adjacent Property –East | EDR Hist Cleaner |
| Levy Sam | A2 | 3026 S Figueroa Street | Adjacent Property – West | EDR Hist Auto Station |
| **Up-gradient Release Sites** | | | | |
| Mobil Oil Corp-Bv7 | G35-G37 | 2620 Figueroa Street | About 0.25 mile, North-northeast | LUST, SWEEPS UST, CA FID UST, EDR Hist Auto Station |
| Orthopedic Hospital Magnet High School: | Orphan listing | Adams Boulevard/South Grand Avenue | 0.25 miles north northeast | Envirostor |

Regulatory agency information reviewed for the listings in the table above are summarized in the Additional Environmental Record Sources section of this report.

### Orphan Listings

EDR reported twelve orphan or unmapped site listings, which EDR is unable to plot due to insufficient address information. One of the orphan listings (Orthopedic Hospital Magnet High School) is described below in the Up-gradient Release Sites section. Based on Rincon's review of the limited address information or site descriptions for the other orphan listings, none of the listings are expected to impact the subject property.

## ADDITIONAL ENVIRONMENTAL RECORD SOURCES

### Review of Agency Files

As a follow-up to the database search, Rincon reviewed regulatory information for facilities within the specified search radii that were interpreted to have the potential to impact the subject property, based on one or more factors previously discussed (e.g., distance, open case status, up-gradient location, soil vapor migration).

The following is a summary of our review of regulatory information obtained from review of online sources (e.g., SWRCB GeoTracker database, DTSC Envirostor database) and/or files requested from the applicable regulatory agency, as described below.

**Subject Property**
The subject property was not listed in any of the databases searched by EDR.

**Adjacent Properties**
Two adjacent properties were listed in databases searched by EDR:

- ***York VG located at 3029 South Flower Street***: This site is located adjacent to the east of subject property. The EDR Historical Cleaner listing indicates that the property was a Clothes Pressers and Cleaners business in 1937. No additional information regarding this listing is provided by EDR.
- ***Levy Sam located at 3026 S Figueroa Street***: This site is located adjacent to the west of the subject property. The EDR Historic Auto Station listing indicates that the property was a gasoline and oil service station in 1929 and 1942. No additional information regarding this listing is provided by EDR.

**Up-gradient Release Sites**
Two nearby properties were listed in databases searched by EDR:

- ***Mobil#18-BV7 service station located at 2620 Figueroa Street:*** The site is located approximately one-quarter mile north-northeast of the subject property. The LUST listing for the service station indicates that a gasoline release affecting the soil was discovered in June 2000. The case was closed in September 2006. The Closure Request Report, dated September 30, 2005, reported that soil sample results indicated that the highest concentrations of all analytes were found from 40 to 60 feet below ground surface and attenuated rapidly below that depth range. Groundwater monitoring had not detected analytes above their respective laboratory reporting limits and, therefore, impacts to groundwater were not considered a concern. Further, no sensitive receptors such as public water wells, surface water bodies, wetlands, or significant ecological resource have been identified within one mile of the Mobil site. Based on the documents reviewed, this site is not expected to be adversely impacting soil or groundwater beneath the subject property.

- ***Orthopedic hospital magnet high school located at West Adams Boulevard/South Grand Avenue*:** The high school site is located approximately one quarter mile north-northeast of the subject property. According to the Envirostor database, the site is approximately 4-acres and has multiple historical land uses including textile assembly; auto parts supply warehouse; and administrative offices, since the mid-1900s. The site was also developed with single and multiple family residences in the late 1800s. Soil was identified to be potentially contaminated with Lead and PAHs. Remedial action was authorized by DTSC and was certified as of 2003. Based on the medium of contamination (soil-only was impacted) and the distance from the subject property, this high school site is not expected to be adversely impacting soil or groundwater beneath the subject property.

In addition, although not listed as release sites, several adjacent and near-by properties were listed on the historical auto stations or historical cleaners databases. Please note that the auto

stations database listings may include parking garages, occupations of residents, auto stations, gas stations, repair stations, etc. and the cleaners database listings may include cleaning facilities, occupations, coin operated laundromats, home businesses, etc. A list of the historical auto stations and historical cleaners in the vicinity of the subject property is included in the EDR report (Appendix 2).

# KNOWN OR SUSPECT CONTAMINATED RELEASE SITES WITH POTENTIAL VAPOR MIGRATION

The EDR report was reviewed to identify nearby known or suspect contaminated sites that have the potential for contaminated vapor originating from the nearby site to be migrating beneath the subject property. Based on the ASTM E 2600-10, *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*, the following minimum search distances were initially used to determine if contaminated soil vapors from a nearby known or suspect contaminated site have the potential to be migrating beneath the subject property:

- 1/10 mile (528 feet) for petroleum hydrocarbons
- 1/3 mile (1,760 feet) for other contaminants of concern (COCs)

***Petroleum Hydrocarbons***

Based on our review of the EDR report information as indicated above, there are no adjacent or up-gradient known or suspect petroleum hydrocarbon impacted soil or groundwater plumes located within 30 feet of the subject property. One adjacent property is listed in the historic automobile station database searched by EDR at 3026 S Figueroa Street; while this listing is not indicative of a release of hazardous materials, there is the potential for an undocumented release to have occurred.

***Other COCs***

Based on our review of the EDR report, there are no adjacent or up-gradient known or suspect contaminated soil or groundwater plumes located within 100 feet of the subject property. One adjacent property is listed in the historic cleaners database searched by EDR at 3029 S Flower Street; while this listing is not indicative of a release of hazardous materials, there is the potential for an undocumented release to have occurred.

## Review of State of California Division of Oil and Gas Records

A review of the Department of Conservation, Division of Oil, Gas & Geothermal Resources Online Mapping System indicates that one oil well is located within ¼ mile of the subject property.

- Chevron USA "Dana Corehole" Well No. 2 (API 03706320) is located about 1,300 feet to the west of the subject property. The status of this well is plugged and abandoned.

In addition, a review of the National Pipeline Mapping System (NPMS) online Public Map Viewer[1] indicates that no gas transmission pipelines or hazardous liquid pipelines are located on the subject property or adjacent properties.

# HISTORICAL USE INFORMATION ON THE PROPERTY AND THE ADJOINING PROPERTIES

The historic records review completed for this Phase I ESA includes aerial photographs, topographic maps, fire insurance maps, city directories and building permits as detailed in the following sections. Copies of the historical resources reviewed are included in Appendix 2. Table 3 provides a summary of the historical use information available for the subject property.

## Review of Historic Aerial Photographs

Aerial photographs from EDR's aerial photograph collection were obtained and reviewed.

## Review of City Directory Listings

EDR was contracted to provide copies of city directory listings for the subject property.

## Review of Fire Insurance Maps

EDR was contracted to provide copies of fire insurance maps for the subject property.

## Review of Historic Topographic Maps

Historic topographic maps from EDR's map collection were reviewed.

## Review of City of Los Angeles Building Permit Records

Building permit records for the subject property were reviewed on the City of Los Angeles Division of Building and Safety website on October 4, 2016. The files contained miscellaneous records pertaining to minor modifications within the building, occupancy certificates, construction permits and demolition permits from 1950 until 2010.

## Other Historic Sources

Information obtained from our review of the Property Owner Questionnaire is included.

## Summary of Historic Uses

### Subject Property

Based on our review of the documents listed above and summarized in Table 3 below, it appears that the subject property has been in residential use from 1894 through the present day.

[1] https://www.npms.phmsa.dot.gov/PublicViewer/

The parcel at 505 West 31st Street has been vacant since 2009 through the present day. The parcel at 511 W 31st Street was developed since at least 1894, the structure is still visible in recent aerials (dated 2012); however, during the site reconnaissance, the structure had been demolished. The building at 515 W 31st Street has been present since at least 1906 through present day.

### Table 3 - Historical Use of the Subject Property

| Year | Use | Source |
|---|---|---|
| **Subject property: 505, 511 & 515 West 31st Street** | | |
| 1894 | Subject property appears developed with a residence on 511 West 31st Street. 505 and 515 West 31st Street appear to be vacant. | Sanborn Map (SM); Topographic map (TM) – Los Angeles |
| 1896 | Subject property is developed; however, due to the map scale, individual structures on the subject property are indiscernible. | TM – Santa Monica |
| 1898 | Similar to the 1896 TM. | TM – Santa Monica |
| 1900 | Similar to the 1898 TM. | TM – Los Angeles |
| 1902 | Similar to the 1900 TM. | TM – Santa Monica |
| 1906 | The residence at 515 & 517 W 31st Street is developed. | Property Owner Questionnaire |
| 1907 | Subject property appears to be developed with three residences and an associated residential automobile garage on the northern portion of the property. | SM |
| 1921 | Similar to 1902 TM. | TM – Santa Monica |
| 1922 | Similar to 1907 SM, with the addition of two smaller shed-like structures at 515 W 31st Street. | SM |
| 1923 | The subject property appears to be developed with residences and garage/sheds. | Aerial Photograph (AP) – USGS; TM – Los Angeles |
| 1924 | Similar to the 1923 TM. | TM – Los Angeles |
| 1924 | 515 West 31st Street – Residence. | CD – Los Angeles Directory Co. |
| 1926 | Similar to the 1924 TM. | TM – Los Angeles |
| 1928 | Similar to 1923 AP and 1926 TM. | AP – USGS; TM – Los Angeles |
| 1929 | 511 & 515 West 31st Street – Residence. | City Directories (CD) – Los Angeles Directory Co. |
| 1933 | 505, 511 and 517 West 31st Street are indicated as residences. | CD – Los Angeles Directory Co. |
| 1937 | Similar to 1933 CD listings. | CD – Los Angeles Directory Co. |
| 1938 | The subject property parcels appear to be residences. | AP – USGS |
| 1942 | Similar to 1937 CD listings. | CD – Los Angeles Directory Co. |
| 1948 | Similar to 1938 AP. | AP – USGS |

| Year | Use | Source |
|---|---|---|
| 1950 | Subject property appears to be developed with residences and an associated residential automobile garage on the northeast corner of the property. | SM, CD – Pacific Telephone |
| 1952 | Similar to the 1948 AP. | AP – USGS |
| 1953 | The subject property is depicted as developed. | TM – Hollywood |
| 1954 | Similar to 1942 CD listings. | CD – RL Polk & Co. |
| 1957 | Similar to the 1950 SM. | SM |
| 1958-1960 | Similar to the 1957 SM; CD listing similar to 1954 CD. | SM; CD – Pacific Telephone |
| 1962 | Similar to 1958 listings. | CD – Pacific Telephone |
| 1964 | Similar to 1952 AP. The I-110 Freeway appears to be constructed at a distance of about 100 feet to the east of the subject property | AP – USGS |
| 1966 | Similar to 1960 SM. The I-110 Freeway is depicted to the east of the subject property. | SM |
| 1967-2006 | Similar to 1962 listings. | CD – Pacific Telephone |
| 1968-1970 | Similar to 1966 SM. | SM |
| 1970 | Similar to 1964 AP. | AP – EDR Proprietary Brewster Pacific |
| 1972 | The subject property is depicted as developed. | TM – Hollywood |
| 1977-2009 | Similar to 1970 AP. | AP – EDR Proprietary Brewster Pacific, USGS, USDA |
| 2010 | According to the City of Los Angeles Building permit, the former Residence at 505 West 31st Street was demolished. | LADBS |
| 2012 | 511 and 515 West 31st Street appear to be residences; 505 West 31st Street appears to be vacant and undeveloped. | AP – USDA/NAIP |

**Northern Adjacent Property**

Based on our review of the documents listed above, it appears that the northern properties were in use as residences in 1894 through 1938; occupied by a "gas and oil" structure in 1948 through 1954, identified as Herbst Oil Co. in 1951, partly vacant in 1960, and has been developed with the existing commercial building from 1962 through present day- partly occupied by Maltby Bearing Company from 1962 until 1970; by STP Sales Co. Inc. in 1962; Furniture Factory in 1967 and 1968; Metrographics Inc. in 1971 through 1981; Tickets of California, Chorus Line Inc., and All that Jazz in 1986; Liquett International Inc. in 1990; John Ickovics in 2000; and University of Southern California in 2008. Currently the property is occupied by Roski Master of Fine Arts Gallery.

**Eastern Adjacent Property**

Based on our review of the documents listed above, it appears that the adjacent eastern property was vacant in 1894, developed into residences by 1907 and remained so at least until 1928; and was redeveloped into stores by 1929. The property has been developed with the existing structure and in commercial use since at least 1929 through present day. The city

directories indicate various commercial listings including Vick C York clothes cleaner in 1937 and Toms Cleaners from 1951 to 1971.

**Southern Adjacent Property**
Based on our review of the documents listed above, it appears that the southern adjacent property, following West 31st Street, was vacant in 1894. It appears to be in residential use from 1907 through present day. The eastern portion of the property (512 West 31st Street) appears to be vacant at least from 1938 through 1948. The properties appear to be in residential use (516 West 31st Street) and commercial use with the eastern portion being used as a parking lot since 1951 through present day. The western portion of the property at 516 W 31st Street appears to have been developed with a 28-unit apartment building from at least 1928 through 2012. The apartment building is no longer present, and is now developed with a paved parking lot.

**Western Adjacent Property**
Based on our review of the documents listed above, it appears that the western adjacent property was developed with a gas and oil station and vulcanizing in 1922. From at least 1950 through 1960, the site is listed as a gasoline station and greasing/repairing. By 1966 the gas and oil station is no longer present, and from 1968 through 1970 the site is listed as an auto salvage. By 1989, the property appears to have been developed similar to today, as a commercial property.

### Gaps in Historical Sources

Several gaps of greater than 5 years were identified in the historical records reviewed, from 1907 to 1921, 1942 to 1948, and 1994 to 2000. These gaps are considered insignificant because the subject property use appears to be similar prior to and following the gaps.

# INTERVIEWS

Rincon Consultants performed interviews regarding the subject property and surrounding areas. The purpose of the interview was to discuss current and historical subject property conditions and to obtain information indicating the presence of recognized environmental conditions in connection with the property.

## INTERVIEW WITH OWNER

An interview questionnaire was provided to the owner of the 515/517 W 31st Street property. Amaia Anchustegui, Real Estate Broker for 515 / 517 W 31st Street, completed the questionnaire on behalf of the property owner, Raul V. Sanchez. A copy of the completed questionnaire is included in Appendix 1. The following information is based on information obtained from our review of the completed questionnaire.

The property owner indicated the following:

- The structure on the subject property was built in about 1906.
- Raul V. Sanchez obtained ownership of the subject property on March 31, 2003.

- The former owner of the subject property was Alamitos Properties.

Ms. Anchustegui indicated she is unaware of the presence of industrial drums, storage tanks (above or below ground), fill dirt, pits, ponds, lagoons, sumps, clarifiers, solvent degreasers, stained soil, hazardous materials or hazardous wastes on the site.

Ms. Anchustegui indicated that she is not aware of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property. In addition, she is not aware of any notice from any government entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

# SITE RECONNAISSANCE

Rincon Consultants performed a reconnaissance of the subject property on October 20, 2016. The purpose of the reconnaissance was to observe existing subject property conditions and to obtain information indicating the presence of recognized environmental conditions in connection with the property.

## METHODOLOGY AND LIMITING CONDITIONS

The site reconnaissance was conducted by 1) observing the subject property from public thoroughfares, 2) observing the adjacent properties from public thoroughfares, 3) observing the exterior of the onsite structures, 4) observing the subject property from within the boundaries of the subject property.

Our site reconnaissance was limited as follows: during the site reconnaissance, the interior of the onsite structure was not accessible to Rincon Consultants.

## CURRENT USE OF THE PROPERTY AND ADJACENT PROPERTIES

The subject property is currently developed with a residential building (515 W 31st Street) and a vacant lot (505 and 511 West 31st Street).

The subject property is located in an area that is primarily comprised of residential and commercial land uses. Properties in the vicinity of the subject property include residential land uses, restaurants, parking lots, and commercial businesses.

## PAST USE OF THE PROPERTY AND ADJACENT PROPERTIES

Based on our site reconnaissance, former past uses at the subject property and adjacent properties are not readily apparent.

# CURRENT OR PAST USES IN THE SURROUNDING AREAS

The subject property is located in an area that is primarily comprised of residential and commercial land uses as detailed in the Site Description section of this report. Past uses of the surrounding area are not readily apparent based on the site reconnaissance.

# GEOLOGIC, HYDROGEOLOGIC, HYDROLOGIC AND TOPOGRAPHIC CONDITIONS

Geologic, Hydrogeologic, Hydrologic and topographic information are as previously stated in the Physical Settings Section of this report.

# GENERAL DESCRIPTION OF STRUCTURES

Onsite structures are as described previously in the Site Description section of this report.

# INTERIOR AND EXTERIOR OBSERVATIONS

## Storage Tanks

During the site reconnaissance, above-ground storage tanks or evidence of underground storage tanks were not observed.

## Drums

Drums were not reported by the site representative or observed during the site reconnaissance.

## Hazardous Substances and Petroleum Products

No hazardous substances or petroleum products were identified at the subject property.

## Unidentified Substance Containers

Unidentified substance containers or unidentified containers that might contain hazardous substances were not observed during the site reconnaissance.

## Odors

During the site reconnaissance, Rincon did not identify any strong, pungent, or noxious odors.

## Pools of Liquid

During the site reconnaissance, Rincon did not identify any pools of liquid including standing surface water. In addition, sumps containing liquids likely to be hazardous substances or petroleum products were not observed.

### Indications of Polychlorinated Biphenyls (PCBs)

During the site reconnaissance, Rincon observed a pole mounted transformer adjacent to the subject property. However, there were no indications of PCBs on the subject property.

### Other Conditions of Concern

During the site reconnaissance Rincon did not note any of the following:

- stains or corrosion
- clarifiers and sumps
- degreasers/parts washers
- pits, ponds, and lagoons
- stained soil or stained pavement
- stressed vegetation
- waste water
- wells
- septic systems/effluent disposal system

# EVALUATION OF PHASE I ESA

## FINDINGS OF PHASE I ESA

Known or suspect environmental conditions associated with the property include the following:

- The location of the site within a methane zone.
- The adjacent site to the east was used as a cleaners/clothes presser in 1937 and Toms Cleaners from 1951 through 1971.
- The adjacent site to the northeast was used as a gas and oil service station from at least 1948 through 1954.
- The adjacent site to the west of the subject property was used as a gasoline station from 1922 through 1960, and an auto salvage yard/auto repair through 1970.

## OPINIONS OF PHASE I ESA

- **The location of the site within a methane zone**. According to the City of Los Angeles Zoning Information and Map Access System (ZIMAS), the site is located within a methane zone. It is possible that methane is present beneath the subject property due to natural geologic formations. Methane could be located beneath the site at levels that could require mitigation. The location of the subject property within a Methane Zone is considered a potential recognized environmental condition (REC).

- **The adjacent site to the east was used a cleaners/clothes presser and Toms Cleaners from 1951 through 1971.** Although no releases have been reported for the historic adjacent cleaner, there is the potential that undocumented releases have occurred and volatile organic compound contamination could potentially be present at this adjacent property. Based on the

proximity to the subject property, the former presence of a cleaner adjacent to the subject property is considered a potential REC.

- **The adjacent site to the northeast was used as a gas and oil service station from at least 1948 through 1954.** Although no releases have been reported for this former adjacent gas station, there is the potential that undocumented releases have occurred and hydrocarbon contamination could potentially be present at this adjacent site. Based on the proximity to the subject property, the former presence of an adjacent gas station is considered a potential REC.
- **The presence of a former gas station adjacent to the west of the subject property from 1922 through 1960, an auto salvage yard/auto repair through 1970.** Although no releases have been reported for this former adjacent gas station, there is the potential that undocumented releases have occurred and hydrocarbon contamination could potentially be present at this adjacent site. Based on the proximity to the subject property, the former presence of an adjacent gas station is considered a potential REC.

## DEVIATIONS

Deviations from ASTM E 1527-13 Practice were encountered during the completion of this Phase I ESA as follows:

- A user questionnaire was not completed as a part of this assessment.
- A owner questionnaire for the property at 505 W 31st Street was not completed as a part of this assessment.
- Access to the onsite structure was not granted.

# PHASE II ESA

Based on the findings of the Phase I ESA and at the request of Canfield Development, Inc., Rincon performed a Phase II ESA at the subject properties located at 505, 511, and 515/517 West 31st Street, Los Angeles, California. The purpose of the Phase II ESA was to determine if the historical usage of the property and neighboring properties have impacted soil vapor at the subject property, and to comply with the City of Los Angeles Department of Building and Safety (LADBS) Site Testing Standards for Methane. The Phase II ESA was performed on October 20, 2016. Methane sampling was conducted on October 20 and 21, 2016.

## PURPOSE AND SCOPE

The following tasks were performed during the execution of the Phase II ESA:

- Prepare a Health and Safety Plan.
- Mark the site and notify Underground Service Alert (USA) utility notification service.
- Use a truck mounted direct push rig to advance 3 borings (SV1-SV3) to a depth of

approximately 20 feet below grade, collect soil vapor samples from 5 feet below grade, and collect methane samples from 5, 10, and 20 feet below grade.

- Analyze soil vapor samples for VOCs using EPA method 8260B.
- Analyze methane samples using the LADBS Site Testing Standards for Methane.

# PHASE II SITE ASSESSMENT METHODOLOGY

## SOIL VAPOR PROBE INSTALLATION

On October 20, 2016, under the direction of Rincon, H&P, of Signal Hill, California, utilized a truck mounted direct push rig to advance 3 soil borings to 20 feet below ground surface (bgs), and install nested soil vapor probes at depths of 5, 10, and 20 feet in each of the borings.

Soil vapor probes were installed in accordance with the California Environmental Protection Agency/Department of Toxic Substances Control (DTSC) Active Soil Gas Investigations Advisory, dated July 2015. At the designated sampling depth, 1/8 inch diameter tubing was inserted in the borehole and extended to the ground surface. The tubing was notched at the base to allow soil gas to enter into the tubing during sampling. Coarse #212 sand was placed within the open borehole from 4 to 5 feet bgs, 9 to 10 feet bgs, and 19 to 20 bgs to form a permeable sand pack surrounding the vapor probe. Dry bentonite filled in the hole, which was then capped with hydrated bentonite. Backfilling with bentonite prevents air from being drawn down the borehole instead of from the formation. Following sampling, the probes were removed and the surface was backfilled with native material to match the surrounding surface.

## SOIL VAPOR SAMPLING FOR VOCS

The tubing exiting the surface of the ground was connected to a vacuum gauge, flow meter, and sampling pump. Three-purge volumes were extracted from each probe to remove stagnant air from the sampling system so representative samples could be collected from the surrounding formation. Vacuum integrity of the sampling system was performed prior to and after the soil vapor sample was collected. Leak-down testing was conducted to determine vacuum integrity. During the sampling a vial containing 1,1- difluoroethane was used as a leak check. Concentrations of 1,1- difluoroethane detected in the samples would indicate the intrusion of ambient air into the sampling train, invalidating the results of the sample. Concentrations of 1,1-difluoroethane were not detected in the soil vapor samples collected from any of the 9 soil vapor probes. Once the soil vapor probe was purged, a soil vapor sample was collected by connecting a batch certified 200mL summa sampling canister to the soil vapor probe. One soil vapor sample was collected from each of the 5 foot probes. Soil vapor samples were then transported under chain of custody to H&P's certified analytical laboratory, and analyzed for VOCs by EPA method 8260B. Complete analytical results are included in Appendix 4.

## METHANE SAMPLING

The City of Los Angeles Department of Building and Safety (LADBS) has developed Site Testing Standards for Methane. This standard uses a 3 step process that provides design input data for methane mitigation systems as required by Division 71 of the Los Angeles Building Code. The purpose of the testing is to determine the concentration and pressure of methane in the subsurface for the design of the methane hazard mitigation systems. The three steps are as follows:

- Step 1- Schedule Site Testing
- Step 2- Conduct Shallow Soil Gas Test
- Step 3- Conduct Gas Probe Test

The results of these steps are then put into a report and included with the building permit application.

According to LADBS protocol, one soil gas sampling location is to be installed for every 10,000 square feet of site area, with a minimum of two locations per parcel. This site is about 21,000 square feet; therefore, three soil gas sampling locations were completed.

In accordance with the LADBS protocol, methane gas samples were collected at 5, 10, and 20 feet below the base of the proposed building. We understand that the building will be slab on grade. The Phase II ESA was conducted under the assumptions stated in the proposal dated September 28, 2016. Those assumptions were as follows:

- Three 20 foot deep soil borings would be drilled with a direct push sampling rig, with soil vapor probes installed in each boring at 5, 10 and 20 feet below grade. One would be installed in the northeastern portion of the site, near the former adjacent gas station, one would be installed near the eastern portion of the site, near the former adjacent cleaners and one would be installed in the western portion of the site, near a former adjacent gas station.

The proposed work was performed under the above assumptions, with only minor deviation. The northeastern boring, SB1, was installed as proposed. The eastern boring, SB2, was shifted approximately 10 feet north of the proposed location, in order to avoid water and power lines identified during the USA mark out. The western boring, SB3, could not be installed in the planned location due to the existing concrete planters at the subject property. The boring was therefore moved approximately 10 feet to the east, and installed in the uncovered soil adjacent to the existing driveway. Once installed, each of the probes was sampled twice, with a minimum 24 hour interval between sampling events. The sampling data were recorded on the LADBS Form 1, and the forms were reviewed and certified by an engineer or geologist with H&P (Appendix 4).

The procedure for collecting samples (to be analyzed for methane) from the probes was as follows: The tubing exiting the surface of the ground was connected to a vacuum gauge, flow meter, and portable sampling pump. Vacuum integrity of the sampling system was performed prior to and after the soil gas sample is collected. Leak-down testing is conducted to determine vacuum integrity. A flow of 100 milliliters per minute is maintained to purge the sampling lines. Two sequential measurements were taken after a minimum interval of 24 hours. The

barometric pressure and gas probe pressure were measured and documented, and soil gas samples were analyzed for methane using the Landtech GEM 2000 handheld device.

# RESULTS OF PHASE II ESA

## VOCS

A copy of the laboratory report is included in Appendix 4 and is summarized in Table 4. No VOCs were detected in any of the samples analyzed. The 1,1- difluoroethane tracer gas was not detected in any of the samples analyzed.

## METHANE

A copy of the Methane sample log sheets are included in Appendix 4, and are summarized in Table 4. Methane was not detected in any of the samples analyzed.

# CONCLUSIONS OF PHASE I AND II ESA

Rincon has performed a Phase I ESA in general conformance with the scope and limitations of ASTM E 1527-13 for the properties on 505, 511 and 515 West 31st Street, Los Angeles, California. Based on the findings of the Phase I ESA and the results of the Phase II ESA, evidence of recognized environmental conditions in connection with the subject property have not been identified.

## RECOMMENDATIONS

Because no RECs were identified on the subject property, no additional assessment is recommended.

Based on our review of historical sources, the existing structure on the subject property was constructed in about 1894. Although not considered a recognized environmental condition (REC) pursuant to ASTM E 1527-13, structures constructed prior to 1978 may contain lead-based paint and structures constructed prior to 1981 may contain asbestos containing building materials (ACBM). Since the building was built before 1978, an asbestos and lead based paint demolition grade survey is recommended.

# REFERENCES

The following published reference materials were used in preparation of this Phase I ESA:

Environmental database: Environmental Data Resources, Inc. (EDR), October 4, 2016.

Geology: Geologic Map of the Hollywood and South ½ Burbank Quadrangles (Dibblee, 1991); City of Los Angeles Zoning Information and Map Access System (ZIMAS); Regional Water Quality Control Board (RWQCB) online database (GeoTracker). Groundwater: California DWR, *California's Groundwater Bulletin 118*, 2003; RWQCB online database (GeoTracker).

Topography: USGS topographic map (Hollywood Quadrangle, 2012).

Oil and gas records: State of California, Division of Oil, Gas and Geothermal Resources website: http://www.consrv.ca.gov/DOG/index.htm.

Aerial photographs: Photos provided by EDR.

Fire insurance maps: Maps provided by EDR.

City directory listings: Listings provided by EDR.

Historic topographic maps: Maps provided by EDR.

# SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

The qualified environmental professionals that are responsible for preparing the report include Sarah A. Larese and Walt Hamann. Their qualifications are summarized in the following section.

"We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312. We have the specific qualifications based on education, training and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312."

| | |
|---|---|
| Signature | November 28, 2016<br>Date |
| Walt Hamann, PG, CEG, CHG<br>Name | Vice President<br>Title |
| Signature | November 28, 2016<br>Date |
| Sarah A. Larese<br>Name | Senior Environmental Scientist<br>Title |

# QUALIFICATIONS OF ENVIRONMENTAL CONSULTANTS

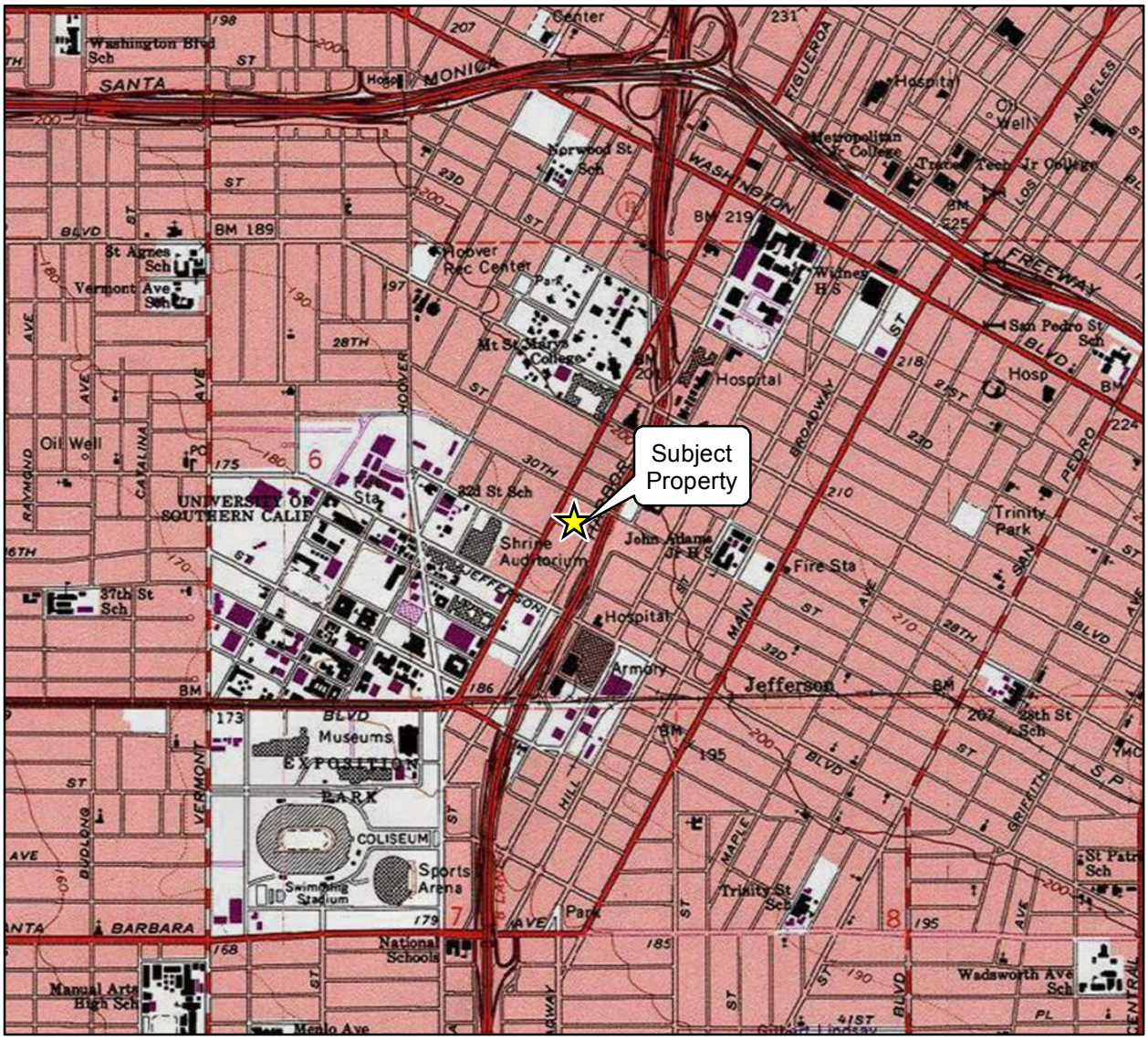
The environmental professionals responsible for conducting this Phase I ESA and preparing the report include Sarah A. Larese and Walt Hamann. Their qualifications are summarized below.

| Environmental Professional Qualifications | X2.1.1 (2) (i) - Professional Engineer or Professional Geologist License or Registration, and 3 years of full-time relevant experience | X2.1.1 (2) (ii) - Licensed or certified by the Federal Government, State, Tribe, or U.S. Territory to perform environmental inquiries | X2.1.1 (2) (iii) – Baccalaureate or Higher Degree from and accredited institution of higher education in a discipline of engineering or science and the equivalent of 5 years of full-time relevant experience | X2.1.1 (2) (iii) – Equivalent of 10 years of full-time relevant experience |
|---|---|---|---|---|
| Walt Hamann | PG, CHG, CEG | | MS Geology | 30 years |
| Sarah A. Larese | | | BA Environmental Studies | 16 years |
| Devin DiNapoli | | | BA Earth Science | 3 years |

**Walt Hamann**, PG, CEG, CHG, is a Principal and Senior Geologist with Rincon Consultants. He holds a Bachelor of Arts degree in geology from the University of California, Santa Barbara and a Master of Science degree in geology from the University of California, Los Angeles. He has over 30 years of experience conducting assessment and remediation projects and has prepared or overseen the preparation of hundreds of Phase I and Phase II Environmental Site Assessments throughout California. Mr. Hamann is a Professional Geologist (#4742), Certified Engineering Geologist (#1635), and Certified Hydrogeologist (#208) with the State of California.

**Sarah A. Larese** is a Senior Environmental Scientist with Rincon Consultants. She holds a Bachelor of Science degree in environmental studies from the University of California, Santa Barbara, California. Ms. Larese has experience in development, implementation and project management of environmental assessment and remediation projects, especially relating to underground storage tanks. Ms. Larese's responsibilities at Rincon include implementation of Phase I and II Environmental Site Assessments as well as conducting site remediation field activities and preparation of environmental reports. She has 16 years of experience conducting research, assessment and remediation projects.

**Devin DiNapoli** is an Environmental Scientist with Rincon Consultants. She holds a Bachelor's Degree in Earth Science from the University of Southern California. Ms. DiNapoli has experience working on Phase I Environmental Site Assessments for a variety of commercial, rural, and industrial properties. She also has experience conducting Phase II projects including soil and soil vapor assessments. Ms. DiNapoli's responsibilities at Rincon include implementation of Phase I and Phase II Environmental Site Assessments and preparing environmental reports.

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0 1,000 2,000
Scale in Feet

N

Vicinity Map

Figure 1

*Imagery provided by Google and its licensors © 2016.*

Site Map

Figure 2

*Imagery provided by ESRI and its licensors © 2016.*

Adjacent Land Use Map

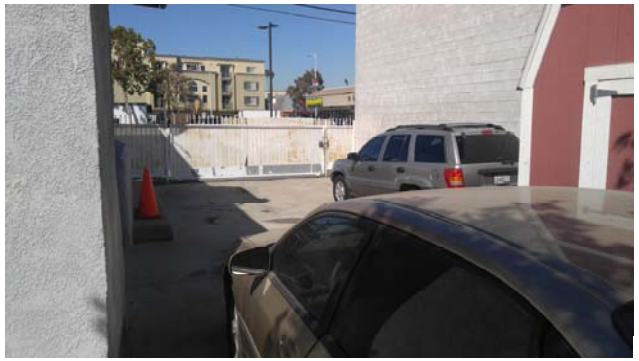
Figure 3

**Photograph 1.** View of the residence on subject property (515 West 31st Street) and adjacent commercial properties, facing northeast.

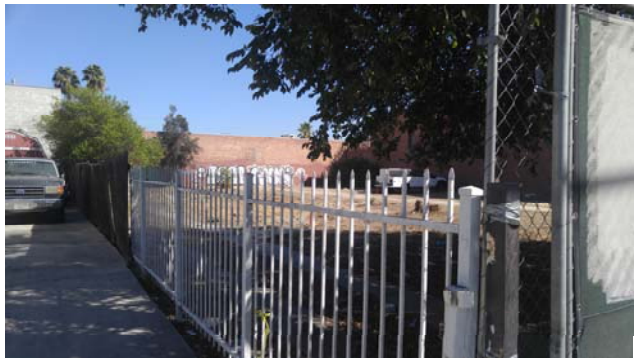
**Photograph 2.** View of the storage shed and residence (515 West 31st Street), facing northeast.

**Photograph 3.** View of the vacant lot present on the eastern portion of the subject property (505 and 511 West 31st Street), facing east.

**Photograph 4.** View of the eastern portion of the vacant lot present onsite and adjacent commercial properties, facing northeast.



**Photograph 5.** View of the driveway of the residence (515 West 31st Street) where SV3 was completed, followed by the southern adjacent residential property and commercial property.



**Photograph 6.** View of the vacant lot present on the eastern portion of the subject property (505 and 511 West 31st Street), facing northeast.

**Site Photographs**

Figure 4

# Appendix 1

*Interview Documentation*

**Property Owner Interview Questionnaire**

**515 & 517 West 31st Street, Los Angeles, California**

This questionnaire should be completed by the current property owner or a designated representative of the current property owner. We respectfully request that you fill out and return this form (via fax **805-644-4455** or email **Devin DiNapoli** at Ddinapoli@rinconconsultants.com to us within one week from the date of this transmittal.

| | |
|---|---|
| 1) | **Was the subject property or any adjoining property ever used as:**<br>❑ a gasoline or other fueling station<br>❑ a motor vehicle repair facility<br>❑ a commercial printing facility<br>❑ a dry cleaners<br>❑ a photo developing laboratory<br>❑ a metal plating facility<br>❑ a farm<br>❑ a junkyard or landfill<br>❑ a waste treatment, storage, disposal, processing or recycling facility<br>❑ a machine shop<br>❑ a manufacturing facility<br>❑ an oil production facility (including oil wells)<br>❑ any other industrial use<br>(please check all that apply and describe)<br>N/A |

| | | |
|---|---|---|
| 2) | **Please describe the current land uses of the subject property and those surrounding your property. Please indicate all businesses/companies located on property.** | |
| 2a | **Current use of Subject Property** (please check all that apply)<br>❑ Commercial (retail, offices, etc.)<br>❑X Residential (single family or apartments)<br>❑ Industrial (manufacturing, warehousing, processing)<br>❑ Other-Please Describe | (please include a brief description of current operation)<br>Quadruplex (4 units) |
| 2b | **Current use of Northern Adjoining Properties** (please check all that apply)<br>❑X Commercial (retail, offices, etc.)<br>❑ Residential (single family or apartments)<br>❑ Industrial (manufacturing, warehousing, processing)<br>❑ Other-Please Describe | (please include a brief description of current operation)<br>USC office for Graduate Fine Arts |
| 2c | **Current use of Southern Adjoining Properties** (please check all that apply)<br>❑ Commercial (retail, offices, etc.)<br>❑X Residential (single family or apartments)<br>❑ Industrial (manufacturing, warehousing, processing)<br>❑ Other-Please Describe | (please include a brief description of current operation)<br>apartment building |
| 2d | **Current use of Western Adjoining Properties** (please check all that apply)<br>❑X Commercial (retail, offices, etc.)<br>❑ Residential (single family or apartments)<br>❑ Industrial (manufacturing, warehousing, processing)<br>❑ Other-Please Describe | (please include a brief description of current operation)<br>retail |
| 2e | **Current use of Eastern Adjoining Properties** (please check all that apply)<br>❑ Commercial (retail, offices, etc.)<br>❑X Residential (single family or apartments)<br>❑ Industrial (manufacturing, warehousing, processing)<br>❑ Other-Please Describe | (please include a brief description of current operation)<br>single family home and vacant land |

| | | |
|---|---|---|
| **3)** | **Please describe the previous land uses of your property and those surrounding your property. Include property ownership and dates of operation if known.** | |
| **3a** | **Previous use of Subject Property** (please check all that apply)<br>❑ Commercial (retail, offices, etc.)<br>❑x Residential (single family or apartments)<br>❑ Industrial (manufacturing, warehousing, processing)<br>❑ Other-Please Describe | (please include a brief description of previous operations, former property owners, and dates of operation)<br>apartment building |
| **3b** | **Previous use of Northern Adjoining Properties** (please check all that apply)<br>❑x Commercial (retail, offices, etc.)<br>❑ Residential (single family or apartments)<br>❑ Industrial (manufacturing, warehousing, processing)<br>❑ Other-Please Describe | (please include a brief description of previous operations) |
| **3c** | **Previous use of Southern Adjoining Properties** (please check all that apply)<br>❑ Commercial (retail, offices, etc.)<br>❑x Residential (single family or apartments)<br>❑ Industrial (manufacturing, warehousing, processing)<br>❑ Other-Please Describe | (please include a brief description of previous operations) |
| **3d** | **Previous use of Western Adjoining Properties** (please check all that apply)<br>❑x Commercial (retail, offices, etc.)<br>❑ Residential (single family or apartments)<br>❑ Industrial (manufacturing, warehousing, processing)<br>❑ Other-Please Describe | (please include a brief description of previous operations) |
| **3e** | **Previous use of Eastern Adjoining Properties** (please check all that apply)<br>❑ Commercial (retail, offices, etc.)<br>❑x Residential (single family or apartments)<br>❑ Industrial (manufacturing, warehousing, processing)<br>❑ Other-Please Describe | (please include a brief description of previous operations) |

| | | |
|---|---|---|
| **4)** | **Who is the current owner of the property?** | Raul V. Sanchez |

| | | |
|---|---|---|
| **5)** | **When did current ownership begin?** | 3/31/2003 |

| | | |
|---|---|---|
| **6)** | **What is the age of the on-site facility?** | 1906 |

| | | |
|---|---|---|
| **7)** | **Who is the previous owner of the property?** | Alamitos Properties |

| | |
|---|---|
| **8)** | **Please indicate the property's current** |
| | electrical service provider - DWP |
| | water service provider - DWP |
| | natural gas service provider - Southern California Gas |
| | sewer service provider - DWP |
| | solid waste hauler - DWP |

| | | |
|---|---|---|
| **9)** | **To the best of your knowledge, has your facility previously or does your facility currently store or use any of the following in individual containers larger than 5 gallons in volume or 50 gallons in the aggregate?** (if yes or unknown, include how many, type, and size) | |
| | ❑ ***Damaged or discarded automotive or industrial batteries*** | |
| | ❑ ***Pesticides*** | |
| | ❑ ***Paints*** | |
| | ❑ ***Oils or solvents*** | |
| | ❑ ***Motor vehicle fuel*** | |
| | ❑ ***Pesticides or Herbicides*** | |
| | ❑ ***Other Chemicals or hazardous substances*** | |

| | | | |
|---|---|---|---|
| **10)** | **Please indicate any wastes generated at the facility.** | | |
| | **Hazardous waste:** | **Quantity:** | **Disposal Method:** |
| | | | |
| | | | |
| | | | |
| | | | |

| | | |
|---|---|---|
| **11)** | **Are there currently or to the best of your knowledge have there been previously, any industrial drums (typically 55 gallon) or sacks of chemicals located on the property or at the facility?** | |
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| | | |
|---|---|---|
| **12)** | **Are there currently or to the best of your knowledge have there been previously, any evidence of fill dirt having been brought onto the property that originated from a contaminated site or that is of an unknown origin?** | |
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| | | |
|---|---|---|
| **13)** | **Are there currently or to the best of your knowledge have there been previously, any pits, ponds or lagoons located on the property in connection with waste treatment or waste disposal?** | |
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| | | |
|---|---|---|
| **14)** | **Are there currently or to the best of your knowledge have there been previously, any sumps, clarifiers, or solvent degreasers on the property?** | |
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| | | |
|---|---|---|
| **15)** | **Are there currently or to the best of your knowledge have there been previously, any stained soil on the property?** | |
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| | | |
|---|---|---|
| **16)** | **Are there currently or to the best of your knowledge have there been previously, any storage tanks (above or below ground) located on the property?** | |
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| | | |
|---|---|---|
| **17)** | **Are there currently or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways (etc.) indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?** | |
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| | | |
|---|---|---|
| **18)** | **If the property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government agency?** | |
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| | | |
|---|---|---|
| **19)** | **Are there currently or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water, or are emitting foul odors?** | |
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| | | |
|---|---|---|
| **20)** | **To the best of your knowledge has your facility previously or does your facility currently, discharge wastewater on or adjacent to the property other than storm water into a sanitary sewer system?** | |
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| | | |
|---|---|---|
| **21)** | **Have any of the following ever been dumped above grade, buried and/or burned on the property?** (please check all that apply and describe if possible) | |
| | ❑ hazardous substances | |
| | ❑ petroleum products | |
| | ❑ unidentified waste materials | |
| | ❑ tires | |
| | ❑ automotive or industrial batteries | |
| | ❑ other waste materials (please describe) | |

| | | |
|---|---|---|
| **22)** | **Are there currently or to the best of your knowledge have there been previously, a transformer, capacitor or any hydraulic equipment on the property?** | |
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| 23) | **Are there currently or to the best of your knowledge have there been previously any records indicating the presence of PCBs?** | |
|---|---|---|
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| 24) | **Are there currently or to the best of your knowledge have there been previously any records indicating the presence of pesticides or herbicides?** | |
|---|---|---|
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| 25) | **Do you have any knowledge of environmental liens that may have been recorded against the property or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?** | |
|---|---|---|
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| 26) | **Do you have any knowledge of activity and use limitations (AULs) such as engineering controls, deed restrictions, land use restrictions, or institutional controls that may have been recorded against the property?** | |
|---|---|---|
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| 27) | **Have you been informed of the past or current existence of hazardous substances, petroleum products, or environmental violations with respect to the property or any facility located on the property?** | |
|---|---|---|
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| 28) | **Do you have any knowledge of any environmental site assessments of the property or facility?** | |
|---|---|---|
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| 29) | **Do you know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release of any hazardous substances or petroleum products involving the property by any owner or occupant of the property?** | |
|---|---|---|
| | ❑ Yes<br>❑x No<br>❑ Unknown | if Yes or Unknown, please describe |

| 30) | **Are there any site-specific geotechnical or geologic reports available for the subject property?** | |
|---|---|---|
| | ❑ Yes<br>❑ x No<br>❑ Unknown | if Yes or Unknown, please describe |

| 31) | **Is there a Title Report available for the subject property?** | |
|---|---|---|
| | ❑x Yes<br>❑ No<br>❑ Unknown | if Yes or Unknown, please describe |

| **This questionnaire was completed by (please print)** | |
|---|---|
| **Name** | Amaia Anchustegui |
| **Title** | Real Estate Broker |
| **Firm** | Marina Del Rey Realty |
| **Street Address** | 4640 Admiralty Way Suite 500 |
| **City, State, Zip Code** | Marina del Rey CA 90292 |
| **Phone Number** | 310-591-8171 |
| **Fax Number** | 310-984-8168 |
| **What is the Preparer's relationship to the property (i.e., owner, occupant, property manager, employee, agent, consultant, etc.) ?** | Broker |

**Copies of the completed questionnaire should be faxed, emailed (preferably) or mailed to:**

Rincon Consultants, Inc.
180 North Ashwood Avenue
Ventura, CA 93003
Attention: Devin DiNapoli
Fax: (805) 644-4455
Email: Ddinapoli@rinconconsultants.com

**Preparer represents that to the best of the preparer's knowledge the above statements and facts are true and correct and to the best of the preparer's knowledge no material facts have been suppressed or misstated.**

**Signature** DocuSigned by: Amaia Anchustegui 7551F474501E4B6... **Date** 11/9/2016

# Appendix 2

*Regulatory Records Documentation*

**Canfield**
505, 511 & 515 West 31st Street
Los Angeles, CA 90007

Inquiry Number: 04744812.2r
October 04, 2016

# The EDR Radius Map™ Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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## GEOCHECK ADDENDUM

**GeoCheck - Not Requested**

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.


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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

**TARGET PROPERTY INFORMATION**

**ADDRESS**

505, 511 & 515 WEST 31ST STREET
LOS ANGELES, CA 90007

**COORDINATES**

| | |
|---|---|
| Latitude (North): | 34.0240130 - 34˚ 1' 26.44'' |
| Longitude (West): | 118.2775520 - 118˚ 16' 39.18'' |
| Universal Tranverse Mercator: | Zone 11 |
| UTM X (Meters): | 382047.7 |
| UTM Y (Meters): | 3765359.8 |
| Elevation: | 186 ft. above sea level |

**USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY**

| | |
|---|---|
| Target Property Map: | 5630741 HOLLYWOOD, CA |
| Version Date: | 2012 |

**AERIAL PHOTOGRAPHY IN THIS REPORT**

| | |
|---|---|
| Portions of Photo from: | 20140513 |
| Source: | USDA |

## MAPPED SITES SUMMARY

Target Property Address:
505, 511 & 515 WEST 31ST STREET
LOS ANGELES, CA 90007

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| A1 | YORK V G | 3029 S FLOWER ST | EDR Hist Cleaner | Lower | 15, 0.003, SE |
| A2 | LEVY SAML | 3026 S FIGEROA | EDR Hist Auto | Higher | 85, 0.016, WNW |
| B3 | EVANS JEFFERIES | 3108 S FIGEROA | EDR Hist Auto | Higher | 202, 0.038, West |
| B4 | STENERSON O H | 3108 S FIGUEROA ST | EDR Hist Auto | Higher | 202, 0.038, West |
| C5 | MANOLO GONZALEZ SMOG | 3000 S FIGUEROA ST | RCRA-SQG, FINDS, ECHO | Higher | 215, 0.041, NNW |
| C6 | | 3000 S FIGUEROA ST | EDR Hist Auto | Higher | 215, 0.041, NNW |
| C7 | LOTZ C W | 3000 S FIGEROA | EDR Hist Auto | Higher | 215, 0.041, NNW |
| C8 | HINCKE H J | 3020 S FIGUEROA ST | EDR Hist Auto | Higher | 251, 0.048, NNW |
| C9 | SMITH N M | 3020 S FIGEROA | EDR Hist Auto | Higher | 251, 0.048, NNW |
| B10 | KRICH ALEX | 3121/2 S FIGEROA | EDR Hist Cleaner | Higher | 298, 0.056, West |
| 11 | JENKINS F M | 2921 S FIGEROA | EDR Hist Auto | Higher | 516, 0.098, North |
| D12 | WESTERN MECHANICAL W | 3221 S FIGEROA | EDR Hist Auto | Higher | 575, 0.109, SW |
| E13 | | 2819 S FLOWER ST | EDR Hist Auto | Higher | 592, 0.112, NNE |
| D14 | FELIX CHEVROLET BODY | 3225 SO FIGUEROA | RCRA-SQG, HAZNET | Higher | 594, 0.112, SW |
| F15 | DOWNTOWN LA MOTORS | 3330 S FIGUEROA ST | UST | Higher | 625, 0.118, SSW |
| F16 | FELIX CHEVROLET CO/C | 3330 S FIGUEROA ST | AST | Higher | 625, 0.118, SSW |
| F17 | FELIK CHEVROLET | 3330 SO FIGUEROA STR | HIST UST, CA FID UST | Higher | 625, 0.118, SSW |
| F18 | | 3330 S FIGUEROA ST | EDR Hist Auto | Higher | 625, 0.118, SSW |
| E19 | | 2813 S FLOWER ST | EDR Hist Auto | Higher | 641, 0.121, NNE |
| D20 | MOHAMMAD S MOUSAVI | 3245 S FIGUEROA ST | SWEEPS UST, CA FID UST | Higher | 688, 0.130, SW |
| D21 | CVS PHARMACY #2396 | 3335 SOUTH FIGUEROA | RCRA-LQG | Higher | 718, 0.136, WSW |
| F22 | FELIX CHEVROLET | 3330 S FIGUEROA ST | SWEEPS UST, FINDS, ECHO | Higher | 838, 0.159, SW |
| 23 | DBA A TO Z NOVELTY | 3100 S GRAND AVE | SWEEPS UST, CA FID UST | Higher | 942, 0.178, SE |
| G24 | BANK OF AMERICA FIGU | 2703 S FIGUEROA ST | RCRA-SQG, FINDS, HAZNET, ECHO | Higher | 1000, 0.189, North |
| H25 | CLAUDE HUDSON COMPRE | 2829 S GRAND AVE | UST | Higher | 1037, 0.196, East |
| H26 | HUDSON COMPREHENSIVE | 2829 S GRAND AVE | HIST UST, HAZNET | Higher | 1037, 0.196, East |
| H27 | LA CO ISD CLAUDE HDS | 2829 S GRAND AVE | SWEEPS UST, CA FID UST, LOS ANGELES CO. HMS | Higher | 1037, 0.196, East |
| H28 | LA HEALTH SVC H CLAU | 2829 S GRAND AVENUE | RCRA-SQG, FINDS, ECHO | Higher | 1037, 0.196, East |
| I29 | SHRINE/ALMALAIKAH AU | 649 W JEFFERSON BLVD | SWEEPS UST, CA FID UST | Higher | 1058, 0.200, WSW |
| I30 | SHRINE AUDITORIUM CO | 649 W JEFFERSON BLVD | RCRA-SQG, FINDS, HAZNET, ECHO | Higher | 1058, 0.200, WSW |
| J31 | FEDEX EXPRESS-EMT/SP | 3333 S GRAND AVE | AST | Higher | 1114, 0.211, SSE |
| J32 | FEDERAL EXPRESS | 3333 S GRAND AVE | UST, SWEEPS UST | Higher | 1114, 0.211, SSE |
| J33 | FECERAL EXPRESS CORP | 3333 SOUTH GRAND | HIST UST, HAZNET | Higher | 1114, 0.211, SSE |
| J34 | FEDERAL EXPRESS | 3333 S GRAND AVE | CA FID UST, NPDES | Higher | 1114, 0.211, SSE |
| G35 | MOBIL OIL CORP. BV7 | 2620 S FIGUEROA ST | UST | Higher | 1215, 0.230, NNE |
| G36 | MOBIL #18-BV7 | 2620 FIGUEROA ST. | LUST | Higher | 1215, 0.230, NNE |
| G37 | MOBIL OIL CORP | 2620 S FIGUEROA ST | SWEEPS UST, CA FID UST | Higher | 1215, 0.230, NNE |
| 38 | FELIX CHEVROLET CO/C | 3425 S FLOWER ST | SWEEPS UST, CA FID UST | Higher | 1222, 0.231, SSW |
| 39 | T L A DESIGN INC | 225 W 32ND ST | RCRA-SQG | Higher | 1286, 0.244, SE |

## MAPPED SITES SUMMARY

Target Property Address:
505, 511 & 515 WEST 31ST STREET
LOS ANGELES, CA 90007

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| 40 | MOM'S CLEANERS | 2520 S FIGUEROA ST | DRYCLEANERS, EMI | Higher | 1305, 0.247, NNE |
| 41 | A1 ELECTRONIC RECYCL | 2646 S HILL ST | SWRCY | Higher | 1829, 0.346, East |
| 42 | LA CITY FIRE STATION | 915 JEFFERSON BLVD W | LUST | Higher | 2039, 0.386, WNW |
| 43 | SPYGLASS GOLF MAINTE | FIGUEROA ST | HIST CORTESE | Higher | 2501, 0.474, SW |
| 44 | UNOCAL #2579 | 2600 MAIN ST N | LUST, HIST CORTESE | Higher | 2618, 0.496, East |
| 45 | HERMETIC ASSOCIATED | 150 EAST JEFFERSON B | ENVIROSTOR | Higher | 2868, 0.543, SE |
| 46 | CRES #18, SITE 3 564 | 3109, 3113, 3115, 31 | ENVIROSTOR, SCH | Higher | 3096, 0.586, ESE |
| 47 | | 2800 LA SERENA WAY | Notify 65 | Higher | 3575, 0.677, ENE |
| 48 | JEFFERSON NEW PRIMAR | MAPLE AVENUE/36TH ST | ENVIROSTOR, SCH | Higher | 3785, 0.717, SSE |
| 49 | SOUTH CENTRAL AREA N | 231 EAST 23RD STREET | ENVIROSTOR, SCH | Higher | 3806, 0.721, ENE |
| 50 | ACCELERATED CHARTER | 3843-3859 WOODLAWN A | ENVIROSTOR, SCH | Higher | 4519, 0.856, SSE |
| 51 | TRINITY PRIMARY SITE | TRINITY STREET/23RD | ENVIROSTOR, SCH | Higher | 4663, 0.883, East |
| K52 | PALACE PLANTING | 710 29TH | RESPONSE, ENVIROSTOR, Cortese, HIST CORTESE, NPDES | Higher | 4868, 0.922, ESE |
| K53 | PALACE PLATING | 710 E. 29TH STREET. | SEMS-ARCHIVE, RCRA-LQG, ENVIROSTOR, SWEEPS UST,... | Higher | 4868, 0.922, ESE |
| K54 | 28TH STREET ELEMENTA | 2807 STANFORD AVENUE | ENVIROSTOR, SCH, EMI | Higher | 5038, 0.954, ESE |

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### *Federal NPL site list*

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

### *Federal Delisted NPL site list*

Delisted NPL ..... National Priority List Deletions

### *Federal CERCLIS list*

FEDERAL FACILITY ..... Federal Facility Site Information listing
SEMS ..... Superfund Enterprise Management System

### *Federal CERCLIS NFRAP site list*

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

### *Federal RCRA CORRACTS facilities list*

CORRACTS ..... Corrective Action Report

### *Federal RCRA non-CORRACTS TSD facilities list*

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

### *Federal RCRA generators list*

RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

### *Federal institutional controls / engineering controls registries*

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

### *Federal ERNS list*

ERNS ..... Emergency Response Notification System

# EXECUTIVE SUMMARY

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF ..... Solid Waste Information System

***State and tribal leaking storage tank lists***

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land
SLIC ..... Statewide SLIC Cases

***State and tribal registered storage tank lists***

FEMA UST ..... Underground Storage Tank Listing
INDIAN UST ..... Underground Storage Tanks on Indian Land

***State and tribal voluntary cleanup sites***

VCP ..... Voluntary Cleanup Program Properties
INDIAN VCP ..... Voluntary Cleanup Priority Listing

***State and tribal Brownfields sites***

BROWNFIELDS ..... Considered Brownfieds Sites Listing

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS ..... A Listing of Brownfields Sites

***Local Lists of Landfill / Solid Waste Disposal Sites***

WMUDS/SWAT ..... Waste Management Unit Database
HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL ..... Delisted National Clandestine Laboratory Register
AOCONCERN ..... San Gabriel Valley Areas of Concern
HIST Cal-Sites ..... Historical Calsites Database
SCH ..... School Property Evaluation Program
CDL ..... Clandestine Drug Labs
Toxic Pits ..... Toxic Pits Cleanup Act Sites
US CDL ..... National Clandestine Laboratory Register

***Local Land Records***

LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information
DEED ..... Deed Restriction Listing

***Records of Emergency Release Reports***

HMIRS ..... Hazardous Materials Information Reporting System

| | |
|---|---|
| CHMIRS | California Hazardous Material Incident Report System |
| LDS | Land Disposal Sites Listing |
| MCS | Military Cleanup Sites Listing |
| SPILLS 90 | SPILLS 90 data from FirstSearch |

***Other Ascertainable Records***

| | |
|---|---|
| RCRA NonGen / NLR | RCRA - Non Generators / No Longer Regulated |
| FUDS | Formerly Used Defense Sites |
| DOD | Department of Defense Sites |
| SCRD DRYCLEANERS | State Coalition for Remediation of Drycleaners Listing |
| US FIN ASSUR | Financial Assurance Information |
| EPA WATCH LIST | EPA WATCH LIST |
| 2020 COR ACTION | 2020 Corrective Action Program List |
| TSCA | Toxic Substances Control Act |
| TRIS | Toxic Chemical Release Inventory System |
| SSTS | Section 7 Tracking Systems |
| ROD | Records Of Decision |
| RMP | Risk Management Plans |
| RAATS | RCRA Administrative Action Tracking System |
| PRP | Potentially Responsible Parties |
| PADS | PCB Activity Database System |
| ICIS | Integrated Compliance Information System |
| FTTS | FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) |
| MLTS | Material Licensing Tracking System |
| COAL ASH DOE | Steam-Electric Plant Operation Data |
| COAL ASH EPA | Coal Combustion Residues Surface Impoundments List |
| PCB TRANSFORMER | PCB Transformer Registration Database |
| RADINFO | Radiation Information Database |
| HIST FTTS | FIFRA/TSCA Tracking System Administrative Case Listing |
| DOT OPS | Incident and Accident Data |
| CONSENT | Superfund (CERCLA) Consent Decrees |
| INDIAN RESERV | Indian Reservations |
| FUSRAP | Formerly Utilized Sites Remedial Action Program |
| UMTRA | Uranium Mill Tailings Sites |
| LEAD SMELTERS | Lead Smelter Sites |
| US AIRS | Aerometric Information Retrieval System Facility Subsystem |
| US MINES | Mines Master Index File |
| FINDS | Facility Index System/Facility Registry System |
| UXO | Unexploded Ordnance Sites |
| DOCKET HWC | Hazardous Waste Compliance Docket Listing |
| CA BOND EXP. PLAN | Bond Expenditure Plan |
| Cortese | "Cortese" Hazardous Waste & Substances Sites List |
| CUPA Listings | CUPA Resources List |
| EMI | Emissions Inventory Data |
| ENF | Enforcement Action Listing |
| Financial Assurance | Financial Assurance Information Listing |
| HAZNET | Facility and Manifest Data |
| LOS ANGELES CO. HMS | HMS: Street Number List |
| HWP | EnviroStor Permitted Facilities Listing |
| HWT | Registered Hazardous Waste Transporter Database |
| MINES | Mines Site Location Listing |
| MWMP | Medical Waste Management Program Listing |
| NPDES | NPDES Permits Listing |

# EXECUTIVE SUMMARY

PEST LIC..... Pesticide Regulation Licenses Listing
PROC..... Certified Processors Database
LA Co. Site Mitigation..... Site Mitigation List
UIC..... UIC Listing
WASTEWATER PITS..... Oil Wastewater Pits Listing
WDS..... Waste Discharge System
WIP..... Well Investigation Program Case List
ICE..... ICE
ECHO..... Enforcement & Compliance History Information
FUELS PROGRAM..... EPA Fuels Program Registered Listing

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LF..... Recovered Government Archive Solid Waste Facilities List
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

**SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

**STANDARD ENVIRONMENTAL RECORDS**

***Federal RCRA generators list***

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 06/21/2016 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CVS PHARMACY #2396 | 3335 SOUTH FIGUEROA | WSW 1/8 - 1/4 (0.136 mi.) | D21 | 20 |

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/21/2016 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MANOLO GONZALEZ SMOG*** | ***3000 S FIGUEROA ST*** | ***NNW 0 - 1/8 (0.041 mi.)*** | ***C5*** | ***9*** |
| ***FELIX CHEVROLET BODY*** | ***3225 SO FIGUEROA*** | ***SW 0 - 1/8 (0.112 mi.)*** | ***D14*** | ***13*** |
| ***BANK OF AMERICA FIGU*** | ***2703 S FIGUEROA ST*** | ***N 1/8 - 1/4 (0.189 mi.)*** | ***G24*** | ***31*** |
| ***LA HEALTH SVC H CLAU*** | ***2829 S GRAND AVENUE*** | ***E 1/8 - 1/4 (0.196 mi.)*** | ***H28*** | ***36*** |
| ***SHRINE AUDITORIUM CO*** | ***649 W JEFFERSON BLVD*** | ***WSW 1/8 - 1/4 (0.200 mi.)*** | ***I30*** | ***39*** |
| T L A DESIGN INC | 225 W 32ND ST | SE 1/8 - 1/4 (0.244 mi.) | 39 | 54 |

***State- and tribal - equivalent NPL***

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, has revealed that there is 1 RESPONSE site within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***PALACE PLANTING*** | ***710 29TH*** | ***ESE 1/2 - 1 (0.922 mi.)*** | ***K52*** | ***85*** |

Database: RESPONSE, Date of Government Version: 05/02/2016
Status: Active
Facility Id: 19340646

***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 05/02/2016 has revealed that there are

# EXECUTIVE SUMMARY

9 ENVIROSTOR sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| HERMETIC ASSOCIATED<br>Facility Id: 19350289<br>Status: Refer: Other Agency | 150 EAST JEFFERSON B | SE 1/2 - 1 (0.543 mi.) | 45 | 63 |
| ***CRES #18, SITE 3 564***<br>Facility Id: 60000080<br>Status: Certified | ***3109, 3113, 3115, 31*** | ***ESE 1/2 - 1 (0.586 mi.)*** | ***46*** | ***64*** |
| ***JEFFERSON NEW PRIMAR***<br>Facility Id: 19880055<br>Facility Id: 19880032<br>Status: Inactive - Action Required<br>Status: No Further Action | ***MAPLE AVENUE/36TH ST*** | ***SSE 1/2 - 1 (0.717 mi.)*** | ***48*** | ***69*** |
| ***SOUTH CENTRAL AREA N***<br>Facility Id: 19590012<br>Status: No Further Action | ***231 EAST 23RD STREET*** | ***ENE 1/2 - 1 (0.721 mi.)*** | ***49*** | ***75*** |
| ***ACCELERATED CHARTER***<br>Facility Id: 60001649<br>Status: No Further Action | ***3843-3859 WOODLAWN A*** | ***SSE 1/2 - 1 (0.856 mi.)*** | ***50*** | ***79*** |
| ***TRINITY PRIMARY SITE***<br>Facility Id: 19880058<br>Status: Inactive - Withdrawn | ***TRINITY STREET/23RD*** | ***E 1/2 - 1 (0.883 mi.)*** | ***51*** | ***83*** |
| ***PALACE PLANTING***<br>Facility Id: 19340646<br>Status: Active | ***710 29TH*** | ***ESE 1/2 - 1 (0.922 mi.)*** | ***K52*** | ***85*** |
| ***PALACE PLATING***<br>Facility Id: 71002166<br>Status: Inactive - Needs Evaluation | ***710 E. 29TH STREET.*** | ***ESE 1/2 - 1 (0.922 mi.)*** | ***K53*** | ***92*** |
| ***28TH STREET ELEMENTA***<br>Facility Id: 19820125<br>Status: Active | ***2807 STANFORD AVENUE*** | ***ESE 1/2 - 1 (0.954 mi.)*** | ***K54*** | ***113*** |

### *State and tribal leaking storage tank lists*

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| MOBIL #18-BV7<br>Database: LUST, Date of Government Version: 06/13/2016<br>Database: LUST REG 4, Date of Government Version: 09/07/2004<br>Status: Completed - Case Closed<br>Facility Id: 900070061<br>Status: Pollution Characterization | 2620 FIGUEROA ST. | NNE 1/8 - 1/4 (0.230 mi.) | G36 | 48 |

Global Id: T0603763171
Global ID: T0603763171

| | | | | |
|---|---|---|---|---|
| LA CITY FIRE STATION | 915 JEFFERSON BLVD W | WNW 1/4 - 1/2 (0.386 mi.) | 42 | 57 |

Database: LUST, Date of Government Version: 06/13/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: 900070052
Status: Leak being confirmed
Global Id: T0603793076
Global ID: T0603793076

| | | | | |
|---|---|---|---|---|
| ***UNOCAL #2579*** | ***2600 MAIN ST N*** | ***E 1/4 - 1/2 (0.496 mi.)*** | ***44*** | ***60*** |

Database: LUST, Date of Government Version: 06/13/2016
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: 900310234
Status: Case Closed
Global Id: T0603700804
Global ID: T0603700804

***State and tribal registered storage tank lists***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 4 UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| DOWNTOWN LA MOTORS | 3330 S FIGUEROA ST | SSW 0 - 1/8 (0.118 mi.) | F15 | 15 |

Database: UST, Date of Government Version: 06/13/2016
Facility Id: 25147

| | | | | |
|---|---|---|---|---|
| CLAUDE HUDSON COMPRE | 2829 S GRAND AVE | E 1/8 - 1/4 (0.196 mi.) | H25 | 33 |

Database: UST, Date of Government Version: 06/13/2016
Facility Id: 25117

| | | | | |
|---|---|---|---|---|
| ***FEDERAL EXPRESS*** | ***3333 S GRAND AVE*** | ***SSE 1/8 - 1/4 (0.211 mi.)*** | ***J32*** | ***42*** |

Database: UST, Date of Government Version: 06/13/2016
Facility Id: 25148

| | | | | |
|---|---|---|---|---|
| MOBIL OIL CORP. BV7 | 2620 S FIGUEROA ST | NNE 1/8 - 1/4 (0.230 mi.) | G35 | 48 |

Database: UST, Date of Government Version: 06/13/2016
Facility Id: 25106

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 07/06/2016 has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| FELIX CHEVROLET CO/C | 3330 S FIGUEROA ST | SSW 0 - 1/8 (0.118 mi.) | F16 | 16 |
| FEDEX EXPRESS-EMT/SP | 3333 S GRAND AVE | SSE 1/8 - 1/4 (0.211 mi.) | J31 | 41 |

# EXECUTIVE SUMMARY

## ADDITIONAL ENVIRONMENTAL RECORDS

### *Local Lists of Landfill / Solid Waste Disposal Sites*

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 06/13/2016 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| A1 ELECTRONIC RECYCL<br>Cert Id: RC14511 | 2646 S HILL ST | E 1/4 - 1/2 (0.346 mi.) | 41 | 57 |

### *Local Lists of Registered Storage Tanks*

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 8 SWEEPS UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MOHAMMAD S MOUSAVI***<br>Comp Number: 4688 | ***3245 S FIGUEROA ST*** | ***SW 1/8 - 1/4 (0.130 mi.)*** | ***D20*** | ***20*** |
| ***FELIX CHEVROLET***<br>Status: A<br>Tank Status: A<br>Comp Number: 2851 | ***3330 S FIGUEROA ST*** | ***SW 1/8 - 1/4 (0.159 mi.)*** | ***F22*** | ***26*** |
| ***DBA A TO Z NOVELTY***<br>Comp Number: 6983 | ***3100 S GRAND AVE*** | ***SE 1/8 - 1/4 (0.178 mi.)*** | ***23*** | ***30*** |
| ***LA CO ISD CLAUDE HDS***<br>Status: A<br>Tank Status: A<br>Comp Number: 1903 | ***2829 S GRAND AVE*** | ***E 1/8 - 1/4 (0.196 mi.)*** | ***H27*** | ***35*** |
| ***SHRINE/ALMALAIKAH AU***<br>Comp Number: 7964 | ***649 W JEFFERSON BLVD*** | ***WSW 1/8 - 1/4 (0.200 mi.)*** | ***I29*** | ***38*** |
| ***FEDERAL EXPRESS***<br>Status: A<br>Comp Number: 6525 | ***3333 S GRAND AVE*** | ***SSE 1/8 - 1/4 (0.211 mi.)*** | ***J32*** | ***42*** |
| ***MOBIL OIL CORP***<br>Status: A<br>Comp Number: 6557 | ***2620 S FIGUEROA ST*** | ***NNE 1/8 - 1/4 (0.230 mi.)*** | ***G37*** | ***52*** |
| ***FELIX CHEVROLET CO/C***<br>Comp Number: 4191 | ***3425 S FLOWER ST*** | ***SSW 1/8 - 1/4 (0.231 mi.)*** | ***38*** | ***53*** |

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 3 HIST UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***FELIK CHEVROLET***<br>Facility Id: 00000050929 | ***3330 SO FIGUEROA STR*** | ***SSW 0 - 1/8 (0.118 mi.)*** | ***F17*** | ***16*** |
| ***HUDSON COMPREHENSIVE*** | ***2829 S GRAND AVE*** | ***E 1/8 - 1/4 (0.196 mi.)*** | ***H26*** | ***34*** |
| ***FECERAL EXPRESS CORP*** | ***3333 SOUTH GRAND*** | ***SSE 1/8 - 1/4 (0.211 mi.)*** | ***J33*** | ***42*** |

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 8 CA FID UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***FELIK CHEVROLET***<br>Facility Id: 19014384<br>Status: A | ***3330 SO FIGUEROA STR*** | ***SSW 0 - 1/8 (0.118 mi.)*** | ***F17*** | ***16*** |
| ***MOHAMMAD S MOUSAVI***<br>Facility Id: 19054360<br>Status: I | ***3245 S FIGUEROA ST*** | ***SW 1/8 - 1/4 (0.130 mi.)*** | ***D20*** | ***20*** |
| ***DBA A TO Z NOVELTY***<br>Facility Id: 19027559<br>Status: I | ***3100 S GRAND AVE*** | ***SE 1/8 - 1/4 (0.178 mi.)*** | ***23*** | ***30*** |
| ***LA CO ISD CLAUDE HDS***<br>Facility Id: 19013655<br>Status: A | ***2829 S GRAND AVE*** | ***E 1/8 - 1/4 (0.196 mi.)*** | ***H27*** | ***35*** |
| ***SHRINE/ALMALAIKAH AU***<br>Facility Id: 19015835<br>Status: I | ***649 W JEFFERSON BLVD*** | ***WSW 1/8 - 1/4 (0.200 mi.)*** | ***I29*** | ***38*** |
| ***FEDERAL EXPRESS***<br>Facility Id: 19032330<br>Status: A | ***3333 S GRAND AVE*** | ***SSE 1/8 - 1/4 (0.211 mi.)*** | ***J34*** | ***45*** |
| ***MOBIL OIL CORP***<br>Facility Id: 19056269<br>Status: A | ***2620 S FIGUEROA ST*** | ***NNE 1/8 - 1/4 (0.230 mi.)*** | ***G37*** | ***52*** |
| ***FELIX CHEVROLET CO/C***<br>Facility Id: 19055714<br>Status: A | ***3425 S FLOWER ST*** | ***SSW 1/8 - 1/4 (0.231 mi.)*** | ***38*** | ***53*** |

### *Other Ascertainable Records*

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen

supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, and dated 06/02/2016 has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MOM'S CLEANERS***<br>EPA Id: CAL000298846<br>EPA Id: CAL000340504 | ***2520 S FIGUEROA ST*** | ***NNE 1/8 - 1/4 (0.247 mi.)*** | ***40*** | ***55*** |

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| SPYGLASS GOLF MAINTE<br>Reg Id: 3015 | FIGUEROA ST | SW 1/4 - 1/2 (0.474 mi.) | 43 | 60 |
| ***UNOCAL #2579***<br>Reg Id: 900310234 | ***2600 MAIN ST N*** | ***E 1/4 - 1/2 (0.496 mi.)*** | ***44*** | ***60*** |

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 09/10/2015 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| Not reported | 2800 LA SERENA WAY | ENE 1/2 - 1 (0.677 mi.) | 47 | 69 |

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 12 EDR Hist Auto

sites within approximately 0.125 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| LEVY SAML | 3026 S FIGEROA | WNW 0 - 1/8 (0.016 mi.) | A2 | 8 |
| Database: EDR Hist Auto, Date of Government Version: 02/20/2007 | | | | |
| EVANS JEFFERIES | 3108 S FIGEROA | W 0 - 1/8 (0.038 mi.) | B3 | 8 |
| Database: EDR Hist Auto, Date of Government Version: 02/20/2007 | | | | |
| STENERSON O H | 3108 S FIGUEROA ST | W 0 - 1/8 (0.038 mi.) | B4 | 8 |
| Database: EDR Hist Auto, Date of Government Version: 02/20/2007 | | | | |
| Not reported | 3000 S FIGUEROA ST | NNW 0 - 1/8 (0.041 mi.) | C6 | 10 |
| LOTZ C W | 3000 S FIGEROA | NNW 0 - 1/8 (0.041 mi.) | C7 | 11 |
| Database: EDR Hist Auto, Date of Government Version: 02/20/2007 | | | | |
| HINCKE H J | 3020 S FIGUEROA ST | NNW 0 - 1/8 (0.048 mi.) | C8 | 11 |
| Database: EDR Hist Auto, Date of Government Version: 02/20/2007 | | | | |
| SMITH N M | 3020 S FIGEROA | NNW 0 - 1/8 (0.048 mi.) | C9 | 11 |
| Database: EDR Hist Auto, Date of Government Version: 02/20/2007 | | | | |
| JENKINS F M | 2921 S FIGEROA | N 0 - 1/8 (0.098 mi.) | 11 | 12 |
| Database: EDR Hist Auto, Date of Government Version: 02/20/2007 | | | | |
| WESTERN MECHANICAL W | 3221 S FIGEROA | SW 0 - 1/8 (0.109 mi.) | D12 | 12 |
| Database: EDR Hist Auto, Date of Government Version: 02/20/2007 | | | | |
| Not reported | 2819 S FLOWER ST | NNE 0 - 1/8 (0.112 mi.) | E13 | 12 |
| Not reported | 3330 S FIGUEROA ST | SSW 0 - 1/8 (0.118 mi.) | F18 | 19 |
| Not reported | 2813 S FLOWER ST | NNE 0 - 1/8 (0.121 mi.) | E19 | 19 |

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 2 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| KRICH ALEX | 3121/2 S FIGEROA | W 0 - 1/8 (0.056 mi.) | B10 | 11 |
| Database: EDR Hist Cleaner, Date of Government Version: 02/20/2007 | | | | |

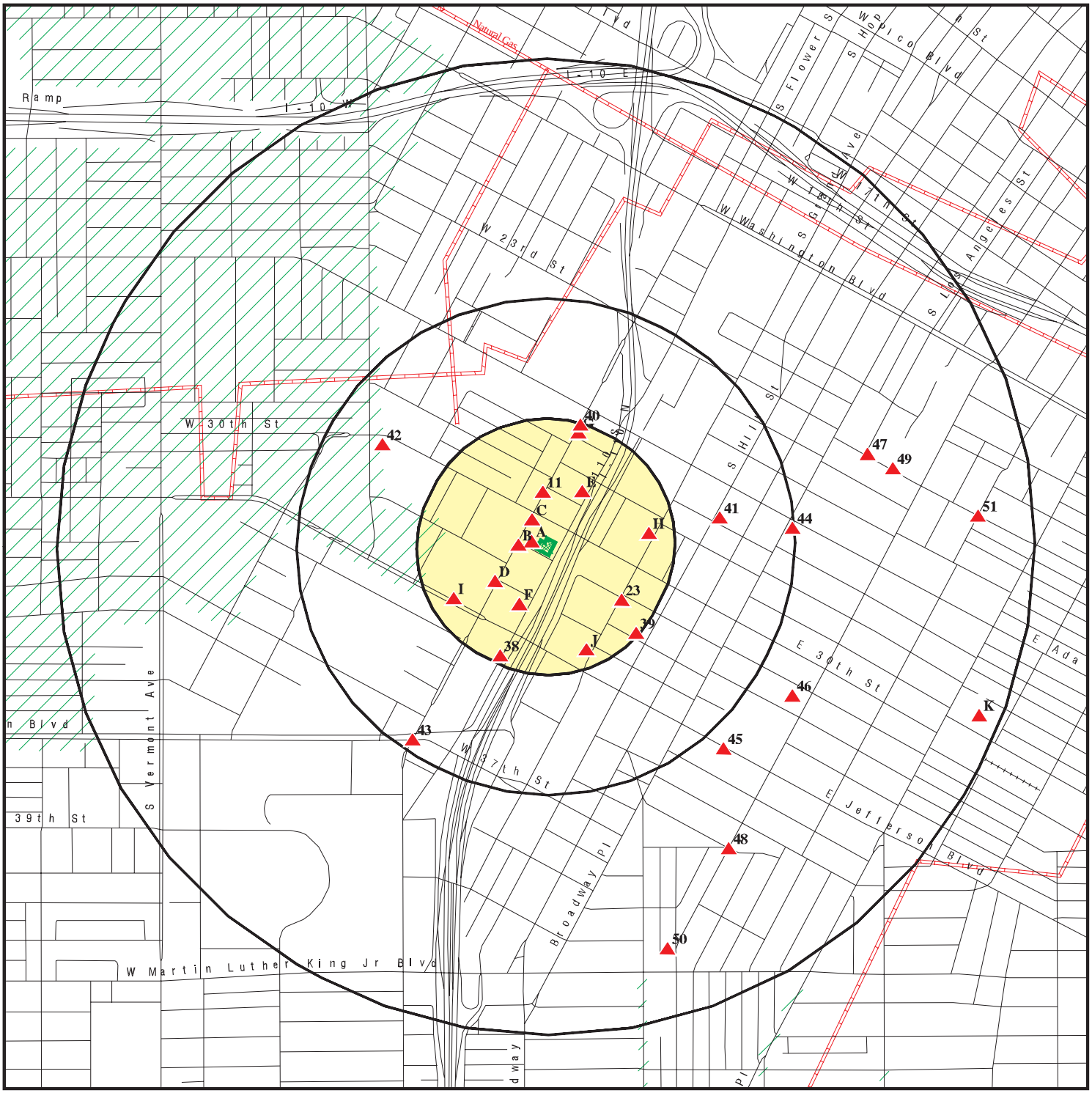
| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| YORK V G | 3029 S FLOWER ST | SE 0 - 1/8 (0.003 mi.) | A1 | 8 |
| Database: EDR Hist Cleaner, Date of Government Version: 02/20/2007 | | | | |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 12 records.

| Site Name | Database(s) |
|---|---|
| | CDL |
| | CDL |
| | CDL |
| | CDL |
| | CDL |
| | CDL |
| | CDL |
| MANUAL ARTS NEW PRIMARY CENTER NO. | ENVIROSTOR, SCH |
| ORTHOPEDIC HOSPITAL MAGNET HIGH SC | ENVIROSTOR, SCH |
| MANUAL ARTS NEW ELEMENTARY SCHOOL | ENVIROSTOR, SCH |
| CALIFORNIA FASHION INDUSTRIES | ENVIROSTOR, SCH |
| JEFFERSON ELEMENTARY SCHOOL NO. 1 | ENVIROSTOR, SCH |

# OVERVIEW MAP - 04744812.2R




Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Pipelines

100-year flood zone

500-year flood zone

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | | | |
|---|---|---|---|
| SITE NAME: | Canfield | CLIENT: | Rincon |
| ADDRESS: | 505, 511 & 515 West 31st Street<br>Los Angeles CA 90007 | CONTACT: | Devin Dinapoli |
| LAT/LONG: | 34.024013 / 118.277552 | INQUIRY #: | 04744812.2r |
| | | DATE: | October 04, 2016 4:56 pm |

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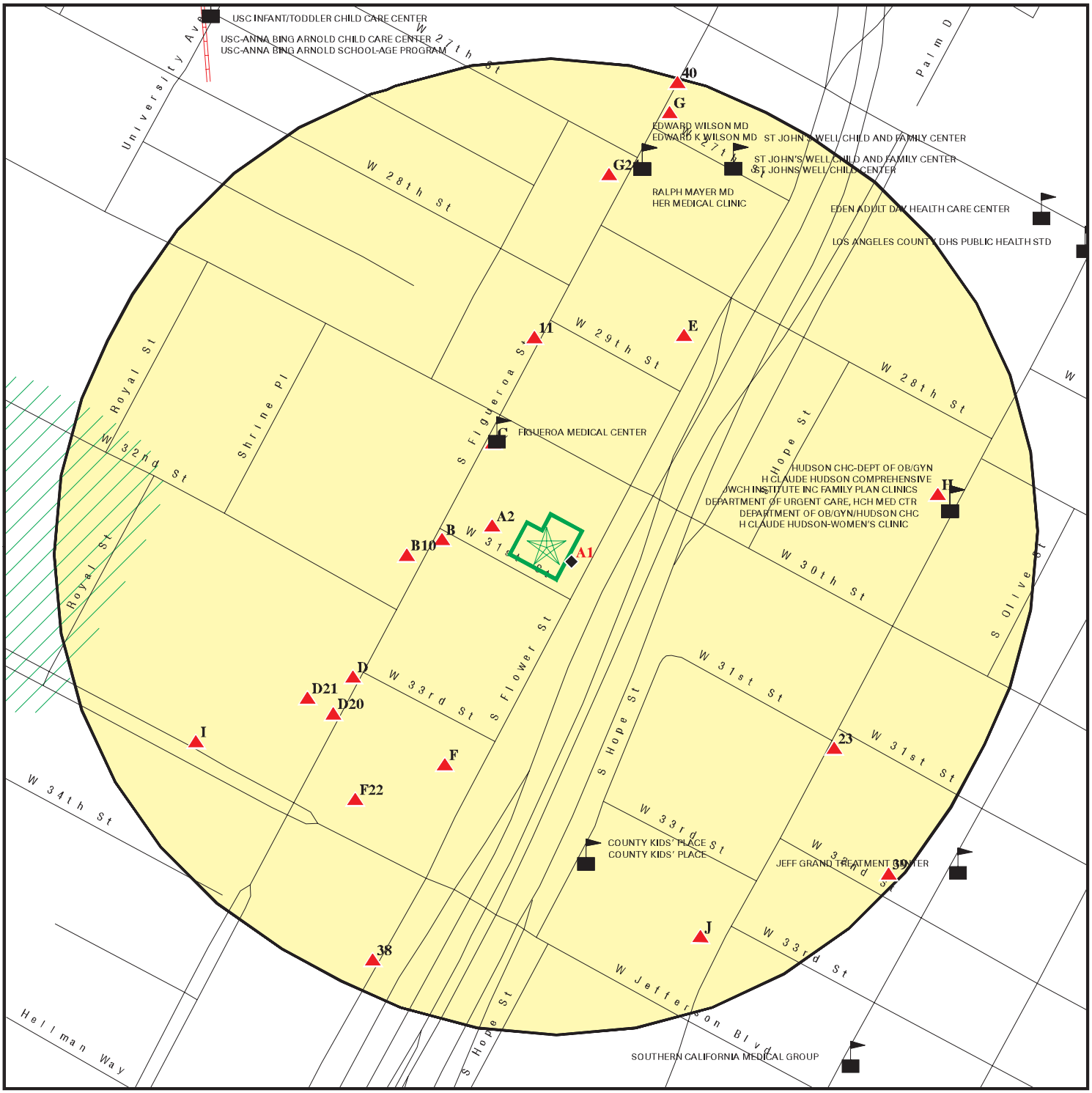
# DETAIL MAP - 04744812.2R




0 1/16 1/8 1/4 Miles

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Pipelines

100-year flood zone

500-year flood zone

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: Canfield | CLIENT: Rincon |
| ADDRESS: 505, 511 & 515 West 31st Street<br>Los Angeles CA 90007 | CONTACT: Devin Dinapoli |
| LAT/LONG: 34.024013 / 118.277552 | INQUIRY #: 04744812.2r |
| | DATE: October 04, 2016 4:58 pm |

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# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Federal NPL site list*** | | | | | | | | |
| NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Federal Delisted NPL site list*** | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS list*** | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal CERCLIS NFRAP site list*** | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA CORRACTS facilities list*** | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal RCRA non-CORRACTS TSD facilities list*** | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA generators list*** | | | | | | | | |
| RCRA-LQG | 0.250 | | 0 | 1 | NR | NR | NR | 1 |
| RCRA-SQG | 0.250 | | 2 | 4 | NR | NR | NR | 6 |
| RCRA-CESQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROL | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***State- and tribal - equivalent NPL*** | | | | | | | | |
| RESPONSE | 1.000 | | 0 | 0 | 0 | 1 | NR | 1 |
| ***State- and tribal - equivalent CERCLIS*** | | | | | | | | |
| ENVIROSTOR | 1.000 | | 0 | 0 | 0 | 9 | NR | 9 |
| ***State and tribal landfill and/or solid waste disposal site lists*** | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal leaking storage tank lists*** | | | | | | | | |
| LUST | 0.500 | | 0 | 1 | 2 | NR | NR | 3 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SLIC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal registered storage tank lists*** | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| UST | 0.250 | | 1 | 3 | NR | NR | NR | 4 |
| AST | 0.250 | | 1 | 1 | NR | NR | NR | 2 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***State and tribal voluntary cleanup sites*** | | | | | | | | |
| VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal Brownfields sites*** | | | | | | | | |
| BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| WMUDS/SWAT | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SWRCY | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| HAULERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US HIST CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| AOCONCERN | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| HIST Cal-Sites | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCH | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| Toxic Pits | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| US CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Local Lists of Registered Storage Tanks*** | | | | | | | | |
| SWEEPS UST | 0.250 | | 0 | 8 | NR | NR | NR | 8 |
| HIST UST | 0.250 | | 1 | 2 | NR | NR | NR | 3 |
| CA FID UST | 0.250 | | 1 | 7 | NR | NR | NR | 8 |
| ***Local Land Records*** | | | | | | | | |
| LIENS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| LIENS 2 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DEED | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| CHMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| LDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MCS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SPILLS 90 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US FIN ASSUR | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TSCA | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| TRIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SSTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| RMP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RAATS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PRP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PADS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ICIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MLTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH DOE | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RADINFO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DOT OPS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN RESERV | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FUSRAP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LEAD SMELTERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US AIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FINDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOCKET HWC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CA BOND EXP. PLAN | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Cortese | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| CUPA Listings | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| DRYCLEANERS | 0.250 | | 0 | 1 | NR | NR | NR | 1 |
| EMI | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ENF | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| Financial Assurance | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HAZNET | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST CORTESE | 0.500 | | 0 | 0 | 2 | NR | NR | 2 |
| LOS ANGELES CO. HMS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HWP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| HWT | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MINES | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MWMP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| NPDES | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PEST LIC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PROC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Notify 65 | 1.000 | | 0 | 0 | 0 | 1 | NR | 1 |
| LA Co. Site Mitigation | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| UIC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WASTEWATER PITS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| WDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WIP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ICE | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ECHO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FUELS PROGRAM | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| **EDR HIGH RISK HISTORICAL RECORDS** | | | | | | | | |
| ***EDR Exclusive Records*** | | | | | | | | |
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| EDR Hist Auto | 0.125 | | 12 | NR | NR | NR | NR | 12 |
| EDR Hist Cleaner | 0.125 | | 2 | NR | NR | NR | NR | 2 |
| **EDR RECOVERED GOVERNMENT ARCHIVES** | | | | | | | | |
| ***Exclusive Recovered Govt. Archives*** | | | | | | | | |
| RGA LF | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RGA LUST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| - Totals -- | | 0 | 20 | 28 | 5 | 11 | 0 | 64 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**A1**
**SE**
**< 1/8**
**0.003 mi.**
**15 ft.**

**YORK V G** — **EDR Hist Cleaner** — **1009192155**
**3029 S FLOWER ST** — **N/A**
**LOS ANGELES, CA**

**Site 1 of 2 in cluster A**

**Relative:**
**Lower**

**Actual:**
**184 ft.**

EDR Historical Cleaners:

| | |
|---|---|
| Name: | YORK V G |
| Year: | 1937 |
| Type: | CLOTHES PRESSERS AND CLEANERS |

---

**A2**
**WNW**
**< 1/8**
**0.016 mi.**
**85 ft.**

**LEVY SAML** — **EDR Hist Auto** — **1009079134**
**3026 S FIGEROA** — **N/A**
**LOS ANGELES, CA**

**Site 2 of 2 in cluster A**

**Relative:**
**Higher**

**Actual:**
**189 ft.**

EDR Historical Auto Stations:

| | |
|---|---|
| Name: | LEVY SAML |
| Year: | 1929 |
| Type: | GASOLINE AND OIL SERVICE STATION |
| Name: | VAN ORNUM W L |
| Year: | 1942 |
| Type: | GASOLINE AND OIL SERVICE STATIONS |

---

**B3**
**West**
**< 1/8**
**0.038 mi.**
**202 ft.**

**EVANS JEFFERIES** — **EDR Hist Auto** — **1009078614**
**3108 S FIGEROA** — **N/A**
**LOS ANGELES, CA**

**Site 1 of 3 in cluster B**

**Relative:**
**Higher**

**Actual:**
**192 ft.**

EDR Historical Auto Stations:

| | |
|---|---|
| Name: | EVANS JEFFERIES |
| Year: | 1929 |
| Type: | GASOLINE AND OIL SERVICE STATION |

---

**B4**
**West**
**< 1/8**
**0.038 mi.**
**202 ft.**

**STENERSON O H** — **EDR Hist Auto** — **1009079115**
**3108 S FIGUEROA ST** — **N/A**
**LOS ANGELES, CA**

**Site 2 of 3 in cluster B**

**Relative:**
**Higher**

**Actual:**
**192 ft.**

EDR Historical Auto Stations:

| | |
|---|---|
| Name: | STENERSON O H |
| Year: | 1924 |
| Type: | AUTOMOBILE SERVICE STATIONS |

**C5 NNW < 1/8 0.041 mi. 215 ft.** | **MANOLO GONZALEZ SMOG STATION**
**3000 S FIGUEROA ST**
**LOS ANGELES, CA 90007** | **RCRA-SQG FINDS ECHO** | **1000333969 CAD982488165**

**Site 1 of 5 in cluster C**

**Relative: Higher**

**Actual: 188 ft.**

RCRA-SQG:

| | |
|---|---|
| Date form received by agency: | 04/19/1990 |
| Facility name: | MANOLO GONZALEZ SMOG STATION |
| Facility address: | 3000 S FIGUEROA ST<br>LOS ANGELES, CA 90007 |
| EPA ID: | CAD982488165 |
| Mailing address: | S FIGUEROA ST<br>LOS ANGELES, CA 90007 |
| Contact: | ENVIRONMENTAL MANAGER |
| Contact address: | 3000 S FIGUEROA ST<br>LOS ANGELES, CA 90007 |
| Contact country: | US |
| Contact telephone: | (213) 747-0505 |
| Contact email: | Not reported |
| EPA Region: | 09 |
| Classification: | Small Small Quantity Generator |
| Description: | Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | MANOLO GONZALEZ |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | NOT REQUIRED |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |

**MANOLO GONZALEZ SMOG STATION (Continued)** **1000333969**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002828520

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000333969
Registry ID: 110002828520
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002828520

---

**C6** **EDR Hist Auto** **1015400887**
**NNW** **3000 S FIGUEROA ST** **N/A**
**< 1/8** **LOS ANGELES, CA 90007**
**0.041 mi.**
**215 ft.** **Site 2 of 5 in cluster C**

**Relative:**
**Higher**

**Actual:**
**188 ft.**

EDR Historical Auto Stations:

Name: MASTER MUFFLERS
Year: 2001
Address: 3000 S FIGUEROA ST

Name: MASTER MUFFLERS
Year: 2002
Address: 3000 S FIGUEROA ST

Name: MASTER MUFFLER AUTO REPAIR
Year: 2004
Address: 3000 S FIGUEROA ST

Name: MASTER MUFFLERS
Year: 2005
Address: 3000 S FIGUEROA ST

Name: MASTER MUFFLERS
Year: 2010
Address: 3000 S FIGUEROA ST

Name: MASTER MUFFLER INC
Year: 2011
Address: 3000 S FIGUEROA ST

**(Continued)** **1015400887**

Name: MASTER MUFFLER INC
Year: 2012
Address: 3000 S FIGUEROA ST

---

**C7**
**NNW**
**< 1/8**
**0.041 mi.**
**215 ft.**

**LOTZ C W** **EDR Hist Auto** **1009083338**
**3000 S FIGEROA** **N/A**
**LOS ANGELES, CA**

**Site 3 of 5 in cluster C**

**Relative:**
**Higher**

**Actual:**
**188 ft.**

EDR Historical Auto Stations:
Name: LOTZ C W
Year: 1942
Type: GASOLINE AND OIL SERVICE STATIONS

---

**C8**
**NNW**
**< 1/8**
**0.048 mi.**
**251 ft.**

**HINCKE H J** **EDR Hist Auto** **1009079307**
**3020 S FIGUEROA ST** **N/A**
**LOS ANGELES, CA**

**Site 4 of 5 in cluster C**

**Relative:**
**Higher**

**Actual:**
**189 ft.**

EDR Historical Auto Stations:
Name: HINCKE H J
Year: 1924
Type: AUTOMOBILE SERVICE STATIONS

---

**C9**
**NNW**
**< 1/8**
**0.048 mi.**
**251 ft.**

**SMITH N M** **EDR Hist Auto** **1009081418**
**3020 S FIGEROA** **N/A**
**LOS ANGELES, CA**

**Site 5 of 5 in cluster C**

**Relative:**
**Higher**

**Actual:**
**189 ft.**

EDR Historical Auto Stations:
Name: SMITH N M
Year: 1933
Type: AUTOMOBILE REPAIRING

---

**B10**
**West**
**< 1/8**
**0.056 mi.**
**298 ft.**

**KRICH ALEX** **EDR Hist Cleaner** **1009185745**
**3121/2 S FIGEROA** **N/A**
**LOS ANGELES, CA**

**Site 3 of 3 in cluster B**

**Relative:**
**Higher**

**Actual:**
**193 ft.**

EDR Historical Cleaners:
Name: KRICH ALEX
Year: 1929
Type: CLOTHES PRESSERS CLEANERS AND REPAIRERS

**11**
**North**
**< 1/8**
**0.098 mi.**
**516 ft.**

**JENKINS F M**
**2921 S FIGEROA**
**LOS ANGELES, CA**

**EDR Hist Auto** **1009083679**
**N/A**

**Relative:**
**Higher**

**Actual:**
**192 ft.**

EDR Historical Auto Stations:

Name: JENKINS F M
Year: 1937
Type: GASOLINE AND OIL SERVICE STATIONS

Name: MORRIS R G
Year: 1942
Type: GASOLINE AND OIL SERVICE STATIONS

---

**D12**
**SW**
**< 1/8**
**0.109 mi.**
**575 ft.**

**WESTERN MECHANICAL WORKS INC**
**3221 S FIGEROA**
**LOS ANGELES, CA**

**EDR Hist Auto** **1009078490**
**N/A**

**Site 1 of 4 in cluster D**

**Relative:**
**Higher**

**Actual:**
**193 ft.**

EDR Historical Auto Stations:

Name: WESTERN MECHANICAL WORKS INC
Year: 1929
Type: AUTOMOBILE REPAIRING AND SERVICE STATIONS

Name: WESTERN MECHANICAL WORKS INC
Year: 1933
Type: AUTOMOBILE REPAIRING

Name: WESTERN MECHANICAL WORKS
Year: 1937
Type: AUTOMOBILE REPAIRING

---

**E13**
**NNE**
**< 1/8**
**0.112 mi.**
**592 ft.**

**2819 S FLOWER ST**
**LOS ANGELES, CA 90007**

**EDR Hist Auto** **1015387706**
**N/A**

**Site 1 of 2 in cluster E**

**Relative:**
**Higher**

**Actual:**
**186 ft.**

EDR Historical Auto Stations:

Name: LITTLE JACKS BODY SHOP
Year: 1999
Address: 2819 S FLOWER ST

Name: LITTLE JACKS BODY SHOP
Year: 2001
Address: 2819 S FLOWER ST

Name: LITTLE JACKS BODY SHOP INC
Year: 2002
Address: 2819 S FLOWER ST

Name: LITTLE JACKS BODY SHOP INC
Year: 2003
Address: 2819 S FLOWER ST

Name: LITTLE JACKS BODY SHOP

**(Continued)** **1015387706**

Year: 2004
Address: 2819 S FLOWER ST

Name: LITTLE JACKS BODY SHOP
Year: 2005
Address: 2819 S FLOWER ST

Name: RALFIS COLLISION CENTER
Year: 2007
Address: 2819 S FLOWER ST

Name: RALFIS COLLISION CENTER
Year: 2008
Address: 2819 S FLOWER ST

Name: RALFIS COLLISION CENTER
Year: 2009
Address: 2819 S FLOWER ST

Name: RALFIS COLLISION CTR
Year: 2010
Address: 2819 S FLOWER ST

Name: RALFIS COLLISION CENTER
Year: 2011
Address: 2819 S FLOWER ST

Name: RALFIS COLLISION CENTER
Year: 2012
Address: 2819 S FLOWER ST

---

**D14** **FELIX CHEVROLET BODYSHOP** **RCRA-SQG** **1000265188**
**SW** **3225 SO FIGUEROA** **HAZNET** **CAD981159965**
**< 1/8** **LOS ANGELES, CA 90007**
**0.112 mi.**
**594 ft.** **Site 2 of 4 in cluster D**

**Relative:**
**Higher**

**Actual:**
**193 ft.**

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: FELIX CHEVROLET BODYSHOP
Facility address: 3225 SO FIGUEROA
LOS ANGELES, CA 90007
EPA ID: CAD981159965
Mailing address: SO FIGUEROA
LOS ANGELES, CA 90007
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**FELIX CHEVROLET BODYSHOP (Continued)** **1000265188**

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | NICKOLAS SHAMMAS |
| Owner/operator address: | NOT REQUIRED |
| | NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | NOT REQUIRED |
| Owner/operator address: | NOT REQUIRED |
| | NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |
| Used oil transporter: | No |

Violation Status: No violations found

HAZNET:

| | |
|---|---|
| envid: | 1000265188 |
| Year: | 1994 |
| GEPAID: | CAD981159965 |
| Contact: | NICK SHAMAS |
| Telephone: | 2137486141 |
| Mailing Name: | Not reported |
| Mailing Address: | 3225 S FIGUEROA ST |
| Mailing City,St,Zip: | LOS ANGELES, CA 900073739 |
| Gen County: | Not reported |
| TSD EPA ID: | CAT000613893 |
| TSD County: | Not reported |
| Waste Category: | Oxygenated solvents (acetone, butanol, ethyl acetate, etc.) |
| Disposal Method: | Transfer Station |
| Tons: | .1350 |
| Cat Decode: | Oxygenated solvents (acetone, butanol, ethyl acetate, etc.) |
| Method Decode: | Transfer Station |

**FELIX CHEVROLET BODYSHOP (Continued)** **1000265188**

| | |
|---|---|
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | 1000265188 |
| Year: | 1994 |
| GEPAID: | CAD981159965 |
| Contact: | NICK SHAMAS |
| Telephone: | 2137486141 |
| Mailing Name: | Not reported |
| Mailing Address: | 3225 S FIGUEROA ST |
| Mailing City,St,Zip: | LOS ANGELES, CA 900073739 |
| Gen County: | Not reported |
| TSD EPA ID: | CAT080011059 |
| TSD County: | Not reported |
| Waste Category: | Aqueous solution with total organic residues 10 percent or more |
| Disposal Method: | Recycler |
| Tons: | .3586 |
| Cat Decode: | Aqueous solution with total organic residues 10 percent or more |
| Method Decode: | Recycler |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | 1000265188 |
| Year: | 1993 |
| GEPAID: | CAD981159965 |
| Contact: | NICK SHAMAS |
| Telephone: | 2137486141 |
| Mailing Name: | Not reported |
| Mailing Address: | 3225 S FIGUEROA ST |
| Mailing City,St,Zip: | LOS ANGELES, CA 900073739 |
| Gen County: | Not reported |
| TSD EPA ID: | CAT000613893 |
| TSD County: | Not reported |
| Waste Category: | Oxygenated solvents (acetone, butanol, ethyl acetate, etc.) |
| Disposal Method: | Transfer Station |
| Tons: | 4.05000000000 |
| Cat Decode: | Oxygenated solvents (acetone, butanol, ethyl acetate, etc.) |
| Method Decode: | Transfer Station |
| Facility County: | Los Angeles |

---

**F15** **DOWNTOWN LA MOTORS** **UST** **U003781439**
**SSW** **3330 S FIGUEROA ST** **N/A**
**< 1/8** **LOS ANGELES, CA 90007**
**0.118 mi.**
**625 ft.** **Site 1 of 5 in cluster F**

**Relative:**
**Higher**

**Actual:**
**193 ft.**

UST:

| | |
|---|---|
| Facility ID: | 25147 |
| Permitting Agency: | LOS ANGELES, CITY OF |
| Latitude: | 34.0232229 |
| Longitude: | -118.27756 |

**F16 SSW < 1/8 0.118 mi. 625 ft.** | **FELIX CHEVROLET CO/C** | **AST** | **A100419924**
**3330 S FIGUEROA ST** | **N/A**
**LOS ANGELES, CA 90007**

**Site 2 of 5 in cluster F**

**Relative: Higher**

**Actual: 193 ft.**

AST:

| | |
|---|---|
| Certified Unified Program Agencies: | Not reported |
| Owner: | FELIX CHEVROLET |
| Total Gallons: | Not reported |
| CERSID: | 10240624 |
| Facility ID: | Not reported |
| Business Name: | FELIX CHEVROLET CO/C |
| Phone: | (213) 748-6141 |
| Fax: | Not reported |
| Mailing Address: | 3330 S FIGUEROA ST |
| Mailing Address City: | LOS ANGELES |
| Mailing Address State: | CA |
| Mailing Address Zip Code: | 90007 |
| Operator Name: | FELIX CHEVROLET |
| Operator Phone: | (213) 748-6141 |
| Owner Phone: | (213) 748-6141 |
| Owner Mail Address: | 3330 S FIGUEROA ST |
| Owner State: | CA |
| Owner Zip Code: | 90007 |
| Owner Country: | United States |
| Property Owner Name: | DOWNTOWN LA MOTORS |
| Property Owner Phone: | Not reported |
| Property Owner Mailing Address: | Not reported |
| Property Owner City: | Not reported |
| Property Owner Stat : | Not reported |
| Property Owner Zip Code: | Not reported |
| Property Owner Country: | United States |
| EPAID: | CAD981373210 |

---

**F17 SSW < 1/8 0.118 mi. 625 ft.** | **FELIK CHEVROLET** | **HIST UST** | **1000265189**
**3330 SO FIGUEROA STREET** | **CA FID UST** | **N/A**
**LOS ANGELES, CA 90007**

**Site 3 of 5 in cluster F**

**Relative: Higher**

**Actual: 193 ft.**

HIST UST:

| | |
|---|---|
| File Number: | 00026746 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026746.pdf |
| Region: | STATE |
| Facility ID: | 00000050929 |
| Facility Type: | Other |
| Other Type: | NEW/USED CAR SALES |
| Contact Name: | NEIL BARSOOMIAN |
| Telephone: | 2137486141 |
| Owner Name: | FELIX CHEVROLET |
| Owner Address: | 3330 SO. FIGUEROA STREET |
| Owner City,St,Zip: | LOS ANGELES, CA 90007 |
| Total Tanks: | 0013 |
| | |
| Tank Num: | 001 |
| Container Num: | SUMP #2 |
| Year Installed: | 1980 |
| Tank Capacity: | 00000000 |
| Tank Used for: | WASTE |

**FELIK CHEVROLET (Continued)** **1000265189**

Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Tank Num: 002
Container Num: OIL #2
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 003
Container Num: OIL #3
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 004
Container Num: B/SHOP3217
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Tank Num: 005
Container Num: JEFF/FIG M
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 006
Container Num: JEFF ST. S
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 007
Container Num: JEFF/MAMA'
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

**FELIK CHEVROLET (Continued)** **1000265189**

| | |
|---|---|
| Tank Num: | 008 |
| Container Num: | LUBE OIL#1 |
| Year Installed: | Not reported |
| Tank Capacity: | 00000200 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual |

| | |
|---|---|
| Tank Num: | 009 |
| Container Num: | OIL #2 |
| Year Installed: | Not reported |
| Tank Capacity: | 00000200 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual |

| | |
|---|---|
| Tank Num: | 010 |
| Container Num: | #1 GAS |
| Year Installed: | Not reported |
| Tank Capacity: | 00000000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual |

| | |
|---|---|
| Tank Num: | 011 |
| Container Num: | #2 DIESEL |
| Year Installed: | Not reported |
| Tank Capacity: | 00000000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual |

| | |
|---|---|
| Tank Num: | 012 |
| Container Num: | #3 GAS |
| Year Installed: | Not reported |
| Tank Capacity: | 00000000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual |

| | |
|---|---|
| Tank Num: | 013 |
| Container Num: | JEFF/FLOWE |
| Year Installed: | Not reported |
| Tank Capacity: | 00000000 |
| Tank Used for: | WASTE |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Not reported |

Click here for Geo Tracker PDF:

**FELIK CHEVROLET (Continued)** **1000265189**

CA FID UST:

| | |
|---|---|
| Facility ID: | 19014384 |
| Regulated By: | UTNKA |
| Regulated ID: | 00050929 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 2137486141 |
| Mail To: | Not reported |
| Mailing Address: | 3330 S FIGUEROA ST |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | LOS ANGELES 900070000 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

---

**F18** **EDR Hist Auto** **1015432703**
**SSW** **3330 S FIGUEROA ST** **N/A**
**< 1/8** **LOS ANGELES, CA 90007**
**0.118 mi.**
**625 ft.** **Site 4 of 5 in cluster F**

**Relative:**
**Higher**

**Actual:**
**193 ft.**

EDR Historical Auto Stations:

| | |
|---|---|
| Name: | FELIX AUTO CTR |
| Year: | 2003 |
| Address: | 3330 S FIGUEROA ST |

---

**E19** **EDR Hist Auto** **1015387320**
**NNE** **2813 S FLOWER ST** **N/A**
**< 1/8** **LOS ANGELES, CA 90007**
**0.121 mi.**
**641 ft.** **Site 2 of 2 in cluster E**

**Relative:**
**Higher**

**Actual:**
**186 ft.**

EDR Historical Auto Stations:

| | |
|---|---|
| Name: | L A AUTO HAUS |
| Year: | 1999 |
| Address: | 2813 S FLOWER ST |
| Name: | LA AUTO HAUS |
| Year: | 2001 |
| Address: | 2813 S FLOWER ST |
| Name: | TROJAN CHEVRON SERVICE |
| Year: | 2002 |
| Address: | 2813 S FLOWER ST |
| Name: | LG PRECISION AUTOMOTIVE |
| Year: | 2008 |
| Address: | 2813 S FLOWER ST |
| Name: | LG PRECISION AUTOMOTIVE |
| Year: | 2009 |
| Address: | 2813 S FLOWER ST |

**D20**
**SW**
**1/8-1/4**
**0.130 mi.**
**688 ft.**

**MOHAMMAD S MOUSAVI**
**3245 S FIGUEROA ST**
**LOS ANGELES, CA 90007**

**SWEEPS UST**
**CA FID UST**

**S101586690**
**N/A**

**Site 3 of 4 in cluster D**

**Relative:**
**Higher**

**Actual:**
**193 ft.**

SWEEPS UST:

| | |
|---|---|
| Status: | Not reported |
| Comp Number: | 4688 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | Not reported |
| Tank Status: | Not reported |
| Capacity: | Not reported |
| Active Date: | Not reported |
| Tank Use: | Not reported |
| STG: | Not reported |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

CA FID UST:

| | |
|---|---|
| Facility ID: | 19054360 |
| Regulated By: | UTNKI |
| Regulated ID: | Not reported |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 2130000000 |
| Mail To: | Not reported |
| Mailing Address: | 3245 S FIGUEROA ST |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | LOS ANGELES 900070000 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Inactive |

---

**D21**
**WSW**
**1/8-1/4**
**0.136 mi.**
**718 ft.**

**CVS PHARMACY #2396**
**3335 SOUTH FIGUEROA ST UNIT Q**
**LOS ANGELES, CA 90007**

**RCRA-LQG**

**1015740516**
**CAR000232371**

**Site 4 of 4 in cluster D**

**Relative:**
**Higher**

**Actual:**
**193 ft.**

RCRA-LQG:

| | |
|---|---|
| Date form received by agency: | 03/01/2014 |
| Facility name: | CVS PHARMACY #2396 |
| Facility address: | 3335 SOUTH FIGUEROA ST UNIT Q<br>LOS ANGELES, CA 90007 |
| EPA ID: | CAR000232371 |
| Mailing address: | CVS DR-23062A<br>WOONSOCKET, CA 02895 |
| Contact: | WENDY L BRANT |
| Contact address: | CVS DR-23062A |

**CVS PHARMACY #2396 (Continued)** **1015740516**

| | |
|---|---|
| | WOONSOCKET, RI 02895 |
| Contact country: | Not reported |
| Contact telephone: | (401) 770-7457 |
| Contact email: | WENDY.BRANT@CVSCAREMARK.COM |
| EPA Region: | 09 |
| Classification: | Large Quantity Generator |
| Description: | Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | UNIVERSITY GATEWAY OWNER LLC |
| Owner/operator address: | S BROADWAY STE 400 |
| | LOS ANGELES, CA 90013 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (213) 437-0476 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 08/24/2010 |
| Owner/Op end date: | Not reported |
| | |
| Owner/operator name: | GARFIELD BEACH CVS, LLC |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 01/22/2011 |
| Owner/Op end date: | Not reported |
| | |
| Owner/operator name: | GARFIELD BEACH CVS LLC |
| Owner/operator address: | Not reported |
| | Not reported |
| Owner/operator country: | US |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | 01/22/2011 |
| Owner/Op end date: | Not reported |
| | |
| Owner/operator name: | UNIVERSITY GATEWAY OWNER LLC |
| Owner/operator address: | 304 S BROADWAY STE 400 |
| | LOS ANGELES, CA 90013 |
| Owner/operator country: | US |
| Owner/operator telephone: | 213-437-0476 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |

**CVS PHARMACY #2396 (Continued)** **1015740516**

Owner/Op start date: 08/24/2010
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: 122

. Waste code: 123
. Waste name: 123

. Waste code: 131
. Waste name: 131

. Waste code: 134
. Waste name: 134

. Waste code: 141
. Waste name: 141

. Waste code: 181
. Waste name: 181

. Waste code: 214
. Waste name: 214

. Waste code: 311
. Waste name: 311

. Waste code: 331
. Waste name: 331

. Waste code: 352
. Waste name: 352

. Waste code: 541
. Waste name: 541

. Waste code: 561
. Waste name: 561

. Waste code: 791

**CVS PHARMACY #2396 (Continued)** **1015740516**

. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

**CVS PHARMACY #2396 (Continued)** **1015740516**

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

. Waste code: P188
. Waste name: BENZOIC ACID, 2-HYDROXY-, COMPD. WITH (3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO[2,3-B]INDOL--YL METHYLCARBAMATE ESTER (1:1) (OR) PHYSOSTIGMINE SALICYLATE

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U010
. Waste name: AZIRINO [2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-MET OXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA, 8BALPHA)]- (OR) MITOMYCIN C

. Waste code: U031
. Waste name: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U058
. Waste name: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

. Waste code: U059
. Waste name: 5,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXO-HEXOPYRANOSYL)OXY]-,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)- (OR) DAUNOMYCIN

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U089
. Waste name: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS, (E)-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129

**CVS PHARMACY #2396 (Continued)** **1015740516**

. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U132
. Waste name: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

. Waste code: U150
. Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

. Waste code: U151
. Waste name: MERCURY

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U200
. Waste name: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

. Waste code: U204
. Waste name: SELENIOUS ACID (OR) SELENIUM DIOXIDE

. Waste code: U205
. Waste name: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

. Waste code: U206
. Waste name: D-GLUCOSE, 2-DEOXY-2-[[(METHYLNITROSOAMINO)-CARBONYL]AMINO]- (OR) GLUCOPYRANOSE, 2-DEOXY-2-(3-METHYL-3-NITROSOUREIDO)-,D- (OR) STREPTOZOTOCIN

. Waste code: U210
. Waste name: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

. Waste code: U411
. Waste name: PHENOL, 2-(1-METHYLETHOXY)-, METHYLCARBAMATE (OR) PROPOXUR

Historical Generators:
Date form received by agency: 10/25/2012
Site name: CVS PHARMACY NO 2396
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

**CVS PHARMACY #2396 (Continued)** **1015740516**

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

Violation Status: No violations found

---

**F22** **FELIX CHEVROLET** **SWEEPS UST** **1007679597**
**SW** **3330 S FIGUEROA ST** **FINDS** **N/A**
**1/8-1/4** **LOS ANGELES, CA 90007** **ECHO**
**0.159 mi.**
**838 ft.** **Site 5 of 5 in cluster F**

**Relative:**
**Higher**

**Actual:**
**193 ft.**

SWEEPS UST:
Status: Active
Comp Number: 2851
Number: 1
Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000001
Tank Status: A
Capacity: Not reported
Active Date: 04-20-88
Tank Use: CHEMICAL
STG: P
Content: UNKNOWN
Number Of Tanks: 13

Status: Active
Comp Number: 2851
Number: 1
Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000002
Tank Status: A
Capacity: Not reported
Active Date: 04-20-88
Tank Use: OIL
STG: W

**FELIX CHEVROLET (Continued)** **1007679597**

Content: WASTE OIL
Number Of Tanks: Not reported

Status: Active
Comp Number: 2851
Number: 1
Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000003
Tank Status: A
Capacity: Not reported
Active Date: 04-20-88
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Active
Comp Number: 2851
Number: 1
Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000004
Tank Status: A
Capacity: Not reported
Active Date: 04-20-88
Tank Use: CHEMICAL
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Active
Comp Number: 2851
Number: 1
Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000005
Tank Status: A
Capacity: Not reported
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 2851
Number: 1

**FELIX CHEVROLET (Continued)** **1007679597**

Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000006
Tank Status: A
Capacity: Not reported
Active Date: 04-20-88
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Active
Comp Number: 2851
Number: 1
Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000007
Tank Status: A
Capacity: Not reported
Active Date: 04-20-88
Tank Use: CHEMICAL
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Active
Comp Number: 2851
Number: 1
Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000008
Tank Status: A
Capacity: 200
Active Date: 04-20-88
Tank Use: CHEMICAL
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Active
Comp Number: 2851
Number: 1
Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000009

**FELIX CHEVROLET (Continued)** **1007679597**

Tank Status: A
Capacity: 200
Active Date: 04-20-88
Tank Use: CHEMICAL
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Active
Comp Number: 2851
Number: 1
Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000010
Tank Status: A
Capacity: Not reported
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 2851
Number: 1
Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000011
Tank Status: A
Capacity: Not reported
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 2851
Number: 1
Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000012
Tank Status: A
Capacity: Not reported
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED

**FELIX CHEVROLET (Continued)** **1007679597**

Number Of Tanks: Not reported

Status: Active
Comp Number: 2851
Number: 1
Board Of Equalization: 44-012586
Referral Date: 07-28-93
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002851-000013
Tank Status: A
Capacity: Not reported
Active Date: 04-20-88
Tank Use: CHEMICAL
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

FINDS:

Registry ID: 110017962631

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

UORS (California - Used Oil Recycling System). California Integrated Waste Management Board (CIWMB) helps communities establish and promote convenient collection opportunities for used oil and used oil filters.

ECHO:
Envid: 1007679597
Registry ID: 110017962631
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110017962631

---

**23** **DBA A TO Z NOVELTY** **SWEEPS UST** **S101585676**
**SE** **3100 S GRAND AVE** **CA FID UST** **N/A**
**1/8-1/4** **LOS ANGELES, CA 90007**
**0.178 mi.**
**942 ft.**

**Relative:**
**Higher**

**Actual:**
**200 ft.**

SWEEPS UST:
Status: Not reported
Comp Number: 6983
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported

**DBA A TO Z NOVELTY (Continued)** **S101585676**

Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19027559
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2130000000
Mail To: Not reported
Mailing Address: 3100 S GRAND AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS ANGELES 900070000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

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**G24**
**North**
**1/8-1/4**
**0.189 mi.**
**1000 ft.**

**BANK OF AMERICA FIGUEROA ADAMS**
**2703 S FIGUEROA ST**
**LOS ANGELES, CA 90007**

**Site 1 of 4 in cluster G**

**RCRA-SQG**
**FINDS**
**HAZNET**
**ECHO**

**1001815516**
**CAR000054783**

**Relative:**
**Higher**

**Actual:**
**201 ft.**

RCRA-SQG:
Date form received by agency: 07/23/1999
Facility name: BANK OF AMERICA FIGUEROA ADAMS
Facility address: 2703 S FIGUEROA ST
LOS ANGELES, CA 90007
EPA ID: CAR000054783
Mailing address: 24301 SOUTHLAND DR
HAYWARD, CA 94545
Contact: STEVEN MITCHELL
Contact address: 24301 SOUTHLAND DR
HAYWARD, CA 94545
Contact country: US
Contact telephone: (510) 784-4128
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: BANK OF AMERICA

**BANK OF AMERICA FIGUEROA ADAMS (Continued)** **1001815516**

Owner/operator address: 1 S VAN NESS 6TH FLOOR
SAN FRANCISCO, CA 94103
Owner/operator country: Not reported
Owner/operator telephone: (415) 241-4535
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D000
. Waste name: Not Defined

Historical Generators:
Date form received by agency: 07/23/1999
Site name: BANK OF AMERICA FIGUEROA ADAMS
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002929074

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
envid: 1001815516
Year: 1999
GEPAID: CAR000054783
Contact: BANK OF AMERICA
Telephone: 0000000000
Mailing Name: Not reported

**BANK OF AMERICA FIGUEROA ADAMS (Continued)** **1001815516**

| | |
|---|---|
| Mailing Address: | 2703 S FIGUEROA ST |
| Mailing City,St,Zip: | LOS ANGELES, CA 900070000 |
| Gen County: | Not reported |
| TSD EPA ID: | CAT000646117 |
| TSD County: | Not reported |
| Waste Category: | Other organic solids |
| Disposal Method: | Not reported |
| Tons: | .0000 |
| Cat Decode: | Other organic solids |
| Method Decode: | Not reported |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | 1001815516 |
| Year: | 1999 |
| GEPAID: | CAR000054783 |
| Contact: | BANK OF AMERICA |
| Telephone: | 0000000000 |
| Mailing Name: | Not reported |
| Mailing Address: | 2703 S FIGUEROA ST |
| Mailing City,St,Zip: | LOS ANGELES, CA 900070000 |
| Gen County: | Not reported |
| TSD EPA ID: | CAT000646117 |
| TSD County: | Not reported |
| Waste Category: | Other organic solids |
| Disposal Method: | Disposal, Land Fill |
| Tons: | 67.4240 |
| Cat Decode: | Other organic solids |
| Method Decode: | Disposal, Land Fill |
| Facility County: | Los Angeles |

ECHO:

| | |
|---|---|
| Envid: | 1001815516 |
| Registry ID: | 110002929074 |
| DFR URL: | http://echo.epa.gov/detailed_facility_report?fid=110002929074 |

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**H25** **CLAUDE HUDSON COMPREHENSIVE HE** **UST** **U001560378**
**East** **2829 S GRAND AVE** **N/A**
**1/8-1/4** **LOS ANGELES, CA 90007**
**0.196 mi.**
**1037 ft.** **Site 1 of 4 in cluster H**

**Relative:**
**Higher**

**Actual:**
**204 ft.**

UST:

| | |
|---|---|
| Facility ID: | 25117 |
| Permitting Agency: | LOS ANGELES, CITY OF |
| Latitude: | 34.0258771 |
| Longitude: | -118.2725554 |

**H26 East 1/8-1/4 0.196 mi. 1037 ft.** | **HUDSON COMPREHENSIVE HEALTH CENTER**
**2829 S GRAND AVE**
**LOS ANGELES, CA 90007**

**Site 2 of 4 in cluster H**

**HIST UST** **S112849010**
**HAZNET** **N/A**

**Relative: Higher**

**Actual: 204 ft.**

HIST UST:

| | |
|---|---|
| File Number: | 000276EA |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000276EA.pdf |
| Region: | Not reported |
| Facility ID: | Not reported |
| Facility Type: | Not reported |
| Other Type: | Not reported |
| Contact Name: | Not reported |
| Telephone: | Not reported |
| Owner Name: | Not reported |
| Owner Address: | Not reported |
| Owner City,St,Zip: | Not reported |
| Total Tanks: | Not reported |
| | |
| Tank Num: | Not reported |
| Container Num: | Not reported |
| Year Installed: | Not reported |
| Tank Capacity: | Not reported |
| Tank Used for: | Not reported |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Not reported |
| | |
| Tank Num: | Not reported |
| Container Num: | Not reported |
| Year Installed: | Not reported |
| Tank Capacity: | Not reported |
| Tank Used for: | Not reported |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Not reported |

Click here for Geo Tracker PDF:

HAZNET:

| | |
|---|---|
| envid: | S112849010 |
| Year: | 1995 |
| GEPAID: | CAC000873648 |
| Contact: | HUDSON COMPREHENSIVE HEALTH |
| Telephone: | 0000000000 |
| Mailing Name: | Not reported |
| Mailing Address: | 245 SOUTH FETTERLY |
| Mailing City,St,Zip: | LOS ANGELES, CA 900070000 |
| Gen County: | Not reported |
| TSD EPA ID: | CAT080013352 |
| TSD County: | Not reported |
| Waste Category: | Tank bottom waste |
| Disposal Method: | Recycler |
| Tons: | .1501 |
| Cat Decode: | Tank bottom waste |
| Method Decode: | Recycler |
| Facility County: | Los Angeles |

**HUDSON COMPREHENSIVE HEALTH CENTER (Continued)** **S112849010**

envid: S112849010
Year: 1993
GEPAID: CAC000873648
Contact: HUDSON COMPREHENSIVE HEALTH
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 245 SOUTH FETTERLY
Mailing City,St,Zip: LOS ANGELES, CA 900070000
Gen County: Not reported
TSD EPA ID: CAD099452708
TSD County: Not reported
Waste Category: Tank bottom waste
Disposal Method: Recycler
Tons: 0.1459
Cat Decode: Tank bottom waste
Method Decode: Recycler
Facility County: Los Angeles

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**H27** **LA CO ISD CLAUDE HDSN HLTH CTR** **SWEEPS UST** **S101617100**
**East** **2829 S GRAND AVE** **CA FID UST** **N/A**
**1/8-1/4** **LOS ANGELES, CA 90011** **LOS ANGELES CO. HMS**
**0.196 mi.**
**1037 ft.** **Site 3 of 4 in cluster H**

**Relative:**
**Higher**

**Actual:**
**204 ft.**

SWEEPS UST:
Status: Active
Comp Number: 1903
Number: 4
Board Of Equalization: 44-012057
Referral Date: 01-22-93
Action Date: 01-22-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001903-000001
Tank Status: A
Capacity: 5000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 2

Status: Active
Comp Number: 1903
Number: 4
Board Of Equalization: 44-012057
Referral Date: 01-22-93
Action Date: 01-22-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001903-000002
Tank Status: A
Capacity: 5000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

**LA CO ISD CLAUDE HDSN HLTH CTR (Continued)** **S101617100**

CA FID UST:

| | |
|---|---|
| Facility ID: | 19013655 |
| Regulated By: | UTNKA |
| Regulated ID: | 00033987 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 2132266441 |
| Mail To: | Not reported |
| Mailing Address: | 313 N FIGUEROA |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | LOS ANGELES 900070000 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

LOS ANGELES CO. HMS:

| | |
|---|---|
| Region: | LA |
| Permit Category: | Not reported |
| Facility Id: | 012557-012721 |
| Facility Type: | Not reported |
| Facility Status: | OPEN |
| Area: | 2F |
| Permit Number: | Not reported |
| Permit Status: | Not reported |

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**H28** **LA HEALTH SVC H CLAUDE HUDSON CTR** **RCRA-SQG** **1000240203**
**East** **2829 S GRAND AVENUE** **FINDS** **CAT080032501**
**1/8-1/4** **LOS ANGELES, CA 90007** **ECHO**
**0.196 mi.**
**1037 ft.** **Site 4 of 4 in cluster H**

**Relative:**
**Higher**

**Actual:**
**204 ft.**

RCRA-SQG:

| | |
|---|---|
| Date form received by agency: | 09/01/1996 |
| Facility name: | LA HEALTH SVC H CLAUDE HUDSON CTR |
| Facility address: | 2829 S GRAND AVENUE<br>LOS ANGELES, CA 90007 |
| EPA ID: | CAT080032501 |
| Mailing address: | 2829 S GRANDE AVENUE<br>LOS ANGELES, CA 90007 |
| Contact: | Not reported |
| Contact address: | Not reported<br>Not reported |
| Contact country: | US |
| Contact telephone: | Not reported |
| Contact email: | Not reported |
| EPA Region: | 09 |
| Classification: | Small Small Quantity Generator |
| Description: | Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time |

**LA HEALTH SVC H CLAUDE HUDSON CTR (Continued)** **1000240203**

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | MUNICIPAL GOVERNMENT |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | NOT REQUIRED |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |
| Used oil transporter: | No |

Historical Generators:

| | |
|---|---|
| Date form received by agency: | 04/17/1981 |
| Site name: | LA HEALTH SVC H CLAUDE HUDSON CTR |
| Classification: | Large Quantity Generator |
| Violation Status: | No violations found |

FINDS:

Registry ID: 110002956828

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource

**LA HEALTH SVC H CLAUDE HUDSON CTR (Continued)** **1000240203**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

| | |
|---|---|
| Envid: | 1000240203 |
| Registry ID: | 110002956828 |
| DFR URL: | http://echo.epa.gov/detailed_facility_report?fid=110002956828 |

---

**I29 WSW 1/8-1/4 0.200 mi. 1058 ft.** | **SHRINE/ALMALAIKAH AUD.** | **SWEEPS UST** | **S101584813**
**649 W JEFFERSON BLVD** | **CA FID UST** | **N/A**
**LOS ANGELES, CA 90007**

**Site 1 of 2 in cluster I**

**Relative: Higher**

**Actual: 192 ft.**

SWEEPS UST:

| | |
|---|---|
| Status: | Not reported |
| Comp Number: | 7964 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | Not reported |
| Tank Status: | Not reported |
| Capacity: | Not reported |
| Active Date: | Not reported |
| Tank Use: | Not reported |
| STG: | Not reported |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

CA FID UST:

| | |
|---|---|
| Facility ID: | 19015835 |
| Regulated By: | UTNKI |
| Regulated ID: | Not reported |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 2130000000 |
| Mail To: | Not reported |
| Mailing Address: | UNK |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | LOS ANGELES 900070000 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Inactive |

**I30 WSW 1/8-1/4 0.200 mi. 1058 ft.** | **SHRINE AUDITORIUM COMPANY**
**649 W JEFFERSON BLVD**
**LOS ANGELES, CA 90007**

**Site 2 of 2 in cluster I**

**RCRA-SQG FINDS HAZNET ECHO** | **1004678490**
**CAR000109710**

**Relative: Higher**

**Actual: 192 ft.**

RCRA-SQG:

| | |
|---|---|
| Date form received by agency: | 11/29/2001 |
| Facility name: | SHRINE AUDITORIUM COMPANY |
| Facility address: | 649 W JEFFERSON BLVD<br>LOS ANGELES, CA 90007 |
| EPA ID: | CAR000109710 |
| Contact: | C A BROWN |
| Contact address: | 649 W JEFFERSON BLVD<br>LOS ANGELES, CA 90007 |
| Contact country: | US |
| Contact telephone: | (213) 742-9922 |
| Contact email: | Not reported |
| EPA Region: | 09 |
| Classification: | Small Small Quantity Generator |
| Description: | Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | AL MALAIKAH AUDITORIUM CO |
| Owner/operator address: | 649 W JEFFERSON BLVD<br>LOS ANGELES, CA 90007 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (213) 748-5116 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |
| Used oil transporter: | No |

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

**SHRINE AUDITORIUM COMPANY (Continued)** **1004678490**

FINDS:

Registry ID: 110012235170

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

| | |
|---|---|
| envid: | 1004678490 |
| Year: | 2007 |
| GEPAID: | CAR000109710 |
| Contact: | C A Brown |
| Telephone: | 2137429922 |
| Mailing Name: | Not reported |
| Mailing Address: | 649 W Jefferson Blvd |
| Mailing City,St,Zip: | Los Angeles, CA 90007 |
| Gen County: | Not reported |
| TSD EPA ID: | CAD009007626 |
| TSD County: | Not reported |
| Waste Category: | Asbestos containing waste |
| Disposal Method: | Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Tons: | 2.4 |
| Cat Decode: | Asbestos containing waste |
| Method Decode: | Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | 1004678490 |
| Year: | 2001 |
| GEPAID: | CAR000109710 |
| Contact: | C A Brown |
| Telephone: | 2137429922 |
| Mailing Name: | Not reported |
| Mailing Address: | 649 W Jefferson Blvd |
| Mailing City,St,Zip: | Los Angeles, CA 90007 |
| Gen County: | Not reported |
| TSD EPA ID: | CAD980884183 |
| TSD County: | Not reported |
| Waste Category: | Unspecified organic liquid mixture |
| Disposal Method: | Disposal, Other |
| Tons: | 0.5 |
| Cat Decode: | Unspecified organic liquid mixture |
| Method Decode: | Disposal, Other |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | 1004678490 |
| Year: | 2001 |
| GEPAID: | CAR000109710 |
| Contact: | C A Brown |

**SHRINE AUDITORIUM COMPANY (Continued)** **1004678490**

| | |
|---|---|
| Telephone: | 2137429922 |
| Mailing Name: | Not reported |
| Mailing Address: | 649 W Jefferson Blvd |
| Mailing City,St,Zip: | Los Angeles, CA 90007 |
| Gen County: | Not reported |
| TSD EPA ID: | CAD980884183 |
| TSD County: | Not reported |
| Waste Category: | Waste oil and mixed oil |
| Disposal Method: | Disposal, Other |
| Tons: | 0.1 |
| Cat Decode: | Waste oil and mixed oil |
| Method Decode: | Disposal, Other |
| Facility County: | Los Angeles |

ECHO:

| | |
|---|---|
| Envid: | 1004678490 |
| Registry ID: | 110012235170 |
| DFR URL: | http://echo.epa.gov/detailed_facility_report?fid=110012235170 |

---

**J31** **FEDEX EXPRESS-EMT/SPQ** **AST** **A100419906**
**SSE** **3333 S GRAND AVE** **N/A**
**1/8-1/4** **LOS ANGELES, CA 90007**
**0.211 mi.**
**1114 ft.** **Site 1 of 4 in cluster J**

**Relative:**
**Higher**

**Actual:**
**196 ft.**

AST:

| | |
|---|---|
| Certified Unified Program Agencies: | Not reported |
| Owner: | FEDERAL EXPRESS CORPORATION |
| Total Gallons: | Not reported |
| CERSID: | 10154601 |
| Facility ID: | Not reported |
| Business Name: | FedEx Express Corporation |
| Phone: | (213) 741-2400 |
| Fax: | Not reported |
| Mailing Address: | 3620 Hacks Cross Road, Bldg B 2nd Floor |
| Mailing Address City: | Memphis |
| Mailing Address State: | TN |
| Mailing Address Zip Code: | 38125 |
| Operator Name: | Federal Express Corporation |
| Operator Phone: | (213) 741-2400 |
| Owner Phone: | (901) 434-8460 |
| Owner Mail Address: | 3620 Hacks Cross Road; Bldg B 2nd Floor |
| Owner State: | TN |
| Owner Zip Code: | 38125 |
| Owner Country: | United States |
| Property Owner Name: | Not reported |
| Property Owner Phone: | Not reported |
| Property Owner Mailing Address: | Not reported |
| Property Owner City: | Not reported |
| Property Owner Stat : | Not reported |
| Property Owner Zip Code: | Not reported |
| Property Owner Country: | Not reported |
| EPAID: | CAD982329955 |

**J32 SSE 1/8-1/4 0.211 mi. 1114 ft.** | **FEDERAL EXPRESS** | **UST** | **U001560384**
**3333 S GRAND AVE** | **SWEEPS UST** | **N/A**
**LOS ANGELES, CA 90007**

**Site 2 of 4 in cluster J**

**Relative: Higher**

**Actual: 196 ft.**

UST:

| | |
|---|---|
| Facility ID: | 25148 |
| Permitting Agency: | LOS ANGELES, CITY OF |
| Latitude: | 34.0227067 |
| Longitude: | -118.2752188 |

SWEEPS UST:

| | |
|---|---|
| Status: | Active |
| Comp Number: | 6525 |
| Number: | 9 |
| Board Of Equalization: | Not reported |
| Referral Date: | 01-07-93 |
| Action Date: | 01-07-93 |
| Created Date: | 02-29-88 |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | Not reported |
| Tank Status: | Not reported |
| Capacity: | Not reported |
| Active Date: | Not reported |
| Tank Use: | Not reported |
| STG: | Not reported |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

---

**J33 SSE 1/8-1/4 0.211 mi. 1114 ft.** | **FECERAL EXPRESS CORPORATION** | **HIST UST** | **S113014570**
**3333 SOUTH GRAND** | **HAZNET** | **N/A**
**LOS ANGELES, CA 90007**

**Site 3 of 4 in cluster J**

**Relative: Higher**

**Actual: 196 ft.**

HIST UST:

| | |
|---|---|
| File Number: | 000273CC |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000273CC.pdf |
| Region: | Not reported |
| Facility ID: | Not reported |
| Facility Type: | Not reported |
| Other Type: | Not reported |
| Contact Name: | Not reported |
| Telephone: | Not reported |
| Owner Name: | Not reported |
| Owner Address: | Not reported |
| Owner City,St,Zip: | Not reported |
| Total Tanks: | Not reported |
| | |
| Tank Num: | Not reported |
| Container Num: | Not reported |
| Year Installed: | Not reported |
| Tank Capacity: | Not reported |
| Tank Used for: | Not reported |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Not reported |

**FECERAL EXPRESS CORPORATION (Continued)** **S113014570**

Click here for Geo Tracker PDF:

HAZNET:

| | |
|---|---|
| envid: | S113014570 |
| Year: | 2014 |
| GEPAID: | CAD982329955 |
| Contact: | TIM JACKSON |
| Telephone: | 9014348468 |
| Mailing Name: | Not reported |
| Mailing Address: | 3620 HACKS CROSS RD BLDG B 2ND FL |
| Mailing City,St,Zip: | MEMPHIS, TN 381257113 |
| Gen County: | Los Angeles |
| TSD EPA ID: | CAD044429835 |
| TSD County: | Los Angeles |
| Waste Category: | Other organic solids |
| Disposal Method: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.1 |
| Cat Decode: | Other organic solids |
| Method Decode: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | S113014570 |
| Year: | 2014 |
| GEPAID: | CAD982329955 |
| Contact: | TIM JACKSON |
| Telephone: | 9014348468 |
| Mailing Name: | Not reported |
| Mailing Address: | 3620 HACKS CROSS RD BLDG B 2ND FL |
| Mailing City,St,Zip: | MEMPHIS, TN 381257113 |
| Gen County: | Los Angeles |
| TSD EPA ID: | CAT000613893 |
| TSD County: | Los Angeles |
| Waste Category: | Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.126 |
| Cat Decode: | Aqueous solution with total organic residues less than 10 percent |
| Method Decode: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | S113014570 |
| Year: | 2014 |
| GEPAID: | CAD982329955 |
| Contact: | TIM JACKSON |
| Telephone: | 9014348468 |
| Mailing Name: | Not reported |
| Mailing Address: | 3620 HACKS CROSS RD BLDG B 2ND FL |
| Mailing City,St,Zip: | MEMPHIS, TN 381257113 |
| Gen County: | Los Angeles |
| TSD EPA ID: | CAT000613935 |
| TSD County: | Los Angeles |
| Waste Category: | Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |

**FECERAL EXPRESS CORPORATION (Continued)** **S113014570**

| | |
|---|---|
| Tons: | 0.672 |
| Cat Decode: | Aqueous solution with total organic residues less than 10 percent |
| Method Decode: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Facility County: | Los Angeles |

| | |
|---|---|
| envid: | S113014570 |
| Year: | 2013 |
| GEPAID: | CAD982329955 |
| Contact: | TIM JACKSON |
| Telephone: | 9014348468 |
| Mailing Name: | Not reported |
| Mailing Address: | 3620 HACKS CROSS RD BLDG B 2ND FL |
| Mailing City,St,Zip: | MEMPHIS, TN 381257113 |
| Gen County: | Los Angeles |
| TSD EPA ID: | CAT000613893 |
| TSD County: | Los Angeles |
| Waste Category: | Not reported |
| Disposal Method: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.05 |
| Cat Decode: | Not reported |
| Method Decode: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Facility County: | Not reported |

| | |
|---|---|
| envid: | S113014570 |
| Year: | 2013 |
| GEPAID: | CAD982329955 |
| Contact: | TIM JACKSON |
| Telephone: | 9014348468 |
| Mailing Name: | Not reported |
| Mailing Address: | 3620 HACKS CROSS RD BLDG B 2ND FL |
| Mailing City,St,Zip: | MEMPHIS, TN 381257113 |
| Gen County: | Los Angeles |
| TSD EPA ID: | CAT000613935 |
| TSD County: | Los Angeles |
| Waste Category: | Not reported |
| Disposal Method: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.0705 |
| Cat Decode: | Not reported |
| Method Decode: | Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Facility County: | Not reported |

Click this hyperlink while viewing on your computer to access
74 additional CA_HAZNET: record(s) in the EDR Site Report.

**J34 SSE 1/8-1/4 0.211 mi. 1114 ft.** | **FEDERAL EXPRESS**
**3333 S GRAND AVE**
**LOS ANGELES, CA 90007** | **CA FID UST** | **S101629295**
**NPDES** | **N/A**

**Site 4 of 4 in cluster J**

**Relative: Higher**

**Actual: 196 ft.**

CA FID UST:

| | |
|---|---|
| Facility ID: | 19032330 |
| Regulated By: | UTNKA |
| Regulated ID: | Not reported |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 2130000000 |
| Mail To: | Not reported |
| Mailing Address: | 3333 S GRAND AVE |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | LOS ANGELES 900070000 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

NPDES:

| | |
|---|---|
| Npdes Number: | Not reported |
| Facility Status: | Not reported |
| Agency Id: | Not reported |
| Region: | 4 |
| Regulatory Measure Id: | 189554 |
| Order No: | Not reported |
| Regulatory Measure Type: | Industrial |
| Place Id: | Not reported |
| WDID: | 4 19I005964 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| RECEIVED DATE: | 5/9/2008 |
| PROCESSED DATE: | 4/17/1992 |
| STATUS CODE NAME: | Active |
| STATUS DATE: | 4/17/1992 |
| PLACE SIZE: | Not reported |
| PLACE SIZE UNIT: | Not reported |
| FACILITY CONTACT NAME: | Timothy Jackson Jr |
| FACILITY CONTACT TITLE: | Not reported |
| FACILITY CONTACT PHONE: | 901-224-6869 |
| FACILITY CONTACT PHONE EXT: | Not reported |
| FACILITY CONTACT EMAIL: | tjackson4@fedex.com |
| OPERATOR NAME: | Fed Ex |
| OPERATOR ADDRESS: | 3333 S Grand Ave |
| OPERATOR CITY: | Los Angeles |

**FEDERAL EXPRESS (Continued)** **S101629295**

| | |
|---|---|
| OPERATOR STATE: | California |
| OPERATOR ZIP: | 90007 |
| OPERATOR CONTACT NAME: | Timothy Jackson Jr |
| OPERATOR CONTACT TITLE: | Not reported |
| OPERATOR CONTACT PHONE: | 901-224-6869 |
| OPERATOR CONTACT PHONE EXT: | Not reported |
| OPERATOR CONTACT EMAIL: | tjackson4@fedex.com |
| OPERATOR TYPE: | Private Business |
| DEVELOPER NAME: | Not reported |
| DEVELOPER ADDRESS: | Not reported |
| DEVELOPER CITY: | Not reported |
| DEVELOPER STATE: | Tennessee |
| DEVELOPER ZIP: | Not reported |
| DEVELOPER CONTACT NAME: | Not reported |
| DEVELOPER CONTACT TITLE: | Not reported |
| CONSTYPE LINEAR UTILITY IND: | Not reported |
| EMERGENCY PHONE NO: | 213-741-2400 |
| EMERGENCY PHONE EXT: | Not reported |
| CONSTYPE ABOVE GROUND IND: | Not reported |
| CONSTYPE BELOW GROUND IND: | Not reported |
| CONSTYPE CABLE LINE IND: | Not reported |
| CONSTYPE COMM LINE IND: | Not reported |
| CONSTYPE COMMERTIAL IND: | Not reported |
| CONSTYPE ELECTRICAL LINE IND: | Not reported |
| CONSTYPE GAS LINE IND: | Not reported |
| CONSTYPE INDUSTRIAL IND: | Not reported |
| CONSTYPE OTHER DESRIPTION: | Not reported |
| CONSTYPE OTHER IND: | Not reported |
| CONSTYPE RECONS IND: | Not reported |
| CONSTYPE RESIDENTIAL IND: | Not reported |
| CONSTYPE TRANSPORT IND: | Not reported |
| CONSTYPE UTILITY DESCRIPTION: | Not reported |
| CONSTYPE UTILITY IND: | Not reported |
| CONSTYPE WATER SEWER IND: | Not reported |
| DIR DISCHARGE USWATER IND: | Not reported |
| RECEIVING WATER NAME: | Not reported |
| CERTIFIER NAME: | Not reported |
| CERTIFIER TITLE: | Not reported |
| CERTIFICATION DATE: | Not reported |
| PRIMARY SIC: | 4513-Air Courier Services |
| SECONDARY SIC: | Not reported |
| TERTIARY SIC: | Not reported |
| | |
| Npdes Number: | Not reported |
| Facility Status: | Active |
| Agency Id: | 0 |
| Region: | 4 |
| Regulatory Measure Id: | 189554 |
| Order No: | Not reported |
| Regulatory Measure Type: | Enrollee |
| Place Id: | Not reported |
| WDID: | 4 19NEC000748 |
| Program Type: | No Exposure Certification |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 04/17/1992 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |

**FEDERAL EXPRESS (Continued)** **S101629295**

| | |
|---|---|
| Discharge Name: | Fed Ex |
| Discharge Address: | 3333 S Grand Ave |
| Discharge City: | Los Angeles |
| Discharge State: | California |
| Discharge Zip: | 90007 |
| RECEIVED DATE: | Not reported |
| PROCESSED DATE: | Not reported |
| STATUS CODE NAME: | Not reported |
| STATUS DATE: | Not reported |
| PLACE SIZE: | Not reported |
| PLACE SIZE UNIT: | Not reported |
| FACILITY CONTACT NAME: | Not reported |
| FACILITY CONTACT TITLE: | Not reported |
| FACILITY CONTACT PHONE: | Not reported |
| FACILITY CONTACT PHONE EXT: | Not reported |
| FACILITY CONTACT EMAIL: | Not reported |
| OPERATOR NAME: | Not reported |
| OPERATOR ADDRESS: | Not reported |
| OPERATOR CITY: | Not reported |
| OPERATOR STATE: | Not reported |
| OPERATOR ZIP: | Not reported |
| OPERATOR CONTACT NAME: | Not reported |
| OPERATOR CONTACT TITLE: | Not reported |
| OPERATOR CONTACT PHONE: | Not reported |
| OPERATOR CONTACT PHONE EXT: | Not reported |
| OPERATOR CONTACT EMAIL: | Not reported |
| OPERATOR TYPE: | Not reported |
| DEVELOPER NAME: | Not reported |
| DEVELOPER ADDRESS: | Not reported |
| DEVELOPER CITY: | Not reported |
| DEVELOPER STATE: | Not reported |
| DEVELOPER ZIP: | Not reported |
| DEVELOPER CONTACT NAME: | Not reported |
| DEVELOPER CONTACT TITLE: | Not reported |
| CONSTYPE LINEAR UTILITY IND: | Not reported |
| EMERGENCY PHONE NO: | Not reported |
| EMERGENCY PHONE EXT: | Not reported |
| CONSTYPE ABOVE GROUND IND: | Not reported |
| CONSTYPE BELOW GROUND IND: | Not reported |
| CONSTYPE CABLE LINE IND: | Not reported |
| CONSTYPE COMM LINE IND: | Not reported |
| CONSTYPE COMMERTIAL IND: | Not reported |
| CONSTYPE ELECTRICAL LINE IND: | Not reported |
| CONSTYPE GAS LINE IND: | Not reported |
| CONSTYPE INDUSTRIAL IND: | Not reported |
| CONSTYPE OTHER DESRIPTION: | Not reported |
| CONSTYPE OTHER IND: | Not reported |
| CONSTYPE RECONS IND: | Not reported |
| CONSTYPE RESIDENTIAL IND: | Not reported |
| CONSTYPE TRANSPORT IND: | Not reported |
| CONSTYPE UTILITY DESCRIPTION: | Not reported |
| CONSTYPE UTILITY IND: | Not reported |
| CONSTYPE WATER SEWER IND: | Not reported |
| DIR DISCHARGE USWATER IND: | Not reported |
| RECEIVING WATER NAME: | Not reported |
| CERTIFIER NAME: | Not reported |
| CERTIFIER TITLE: | Not reported |

**FEDERAL EXPRESS (Continued)** **S101629295**

CERTIFICATION DATE: Not reported
PRIMARY SIC: Not reported
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

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**G35**
**NNE**
**1/8-1/4**
**0.230 mi.**
**1215 ft.**

**MOBIL OIL CORP. BV7** **UST** **U003781407**
**2620 S FIGUEROA ST** **N/A**
**LOS ANGELES, CA 90007**

**Site 2 of 4 in cluster G**

**Relative:**
**Higher**

**Actual:**
**203 ft.**

UST:
Facility ID: 25106
Permitting Agency: LOS ANGELES, CITY OF
Latitude: 34.0290379
Longitude: -118.2748126

---

**G36**
**NNE**
**1/8-1/4**
**0.230 mi.**
**1215 ft.**

**MOBIL #18-BV7** **LUST** **S105692245**
**2620 FIGUEROA ST.** **N/A**
**LOS ANGELES, CA 90007**

**Site 3 of 4 in cluster G**

**Relative:**
**Higher**

**Actual:**
**203 ft.**

LUST:
Region: STATE
Global Id: T0603763171
Latitude: 34.0279429
Longitude: -118.2760832
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 09/19/2006
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: DPP
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 900070061
LOC Case Number: 00-2474
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603763171
Contact Type: Regional Board Caseworker
Contact Name: DANIEL PIROTTON
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: Not reported
City: R4 UNKNOWN
Email: dpirotton@waterboards.ca.gov
Phone Number: 2135766714

Global Id: T0603763171
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF

**MOBIL #18-BV7 (Continued)** **S105692245**

Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Status History:

Global Id: T0603763171
Status: Completed - Case Closed
Status Date: 09/19/2006

Global Id: T0603763171
Status: Open - Case Begin Date
Status Date: 06/02/2000

Global Id: T0603763171
Status: Open - Site Assessment
Status Date: 06/03/2000

Global Id: T0603763171
Status: Open - Site Assessment
Status Date: 02/28/2003

Global Id: T0603763171
Status: Open - Site Assessment
Status Date: 06/12/2003

Global Id: T0603763171
Status: Open - Site Assessment
Status Date: 05/14/2004

Regulatory Activities:

Global Id: T0603763171
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603763171
Action Type: ENFORCEMENT
Date: 01/08/2003
Action: Staff Letter

Global Id: T0603763171
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603763171
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603763171
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

**MOBIL #18-BV7 (Continued)** **S105692245**

Global Id: T0603763171
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603763171
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603763171
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603763171
Action Type: ENFORCEMENT
Date: 08/25/2006
Action: Notification - Preclosure

Global Id: T0603763171
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603763171
Action Type: RESPONSE
Date: 02/28/2003
Action: Soil and Water Investigation Workplan

Global Id: T0603763171
Action Type: Other
Date: 06/02/2000
Action: Leak Discovery

Global Id: T0603763171
Action Type: Other
Date: 06/03/2000
Action: Leak Reported

Global Id: T0603763171
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603763171
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603763171
Action Type: ENFORCEMENT
Date: 01/26/2003
Action: Technical Correspondence / Assistance / Other

Global Id: T0603763171
Action Type: ENFORCEMENT

**MOBIL #18-BV7 (Continued)** **S105692245**

Date: 09/19/2006
Action: Closure/No Further Action Letter

Global Id: T0603763171
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603763171
Action Type: REMEDIATION
Date: 06/02/2000
Action: Other (Use Description Field)

Global Id: T0603763171
Action Type: RESPONSE
Date: 06/13/2003
Action: Soil and Water Investigation Workplan

Global Id: T0603763171
Action Type: RESPONSE
Date: 06/13/2003
Action: Soil and Water Investigation Report

Global Id: T0603763171
Action Type: ENFORCEMENT
Date: 03/26/2003
Action: Staff Letter

Global Id: T0603763171
Action Type: ENFORCEMENT
Date: 06/07/2006
Action: Site Visit / Inspection / Sampling

Global Id: T0603763171
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 900070061
Status: Pollution Characterization
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: 00-2474
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603763171
W Global ID: Not reported
Staff: TCS
Local Agency: 19050
Cross Street: Not reported
Enforcement Type: SEL
Date Leak Discovered: 6/2/2000

**MOBIL #18-BV7 (Continued)** **S105692245**

| | | |
|---|---|---|
| Date Leak First Reported: | | 6/3/2000 |
| Date Leak Record Entered: | Not reported | |
| Date Confirmation Began: | 6/3/2000 | |
| Date Leak Stopped: | Not reported | |
| Date Case Last Changed on Database: | | Not reported |
| Date the Case was Closed: | | Not reported |
| How Leak Discovered: | OM | |
| How Leak Stopped: | Not reported | |
| Cause of Leak: | UNK | |
| Leak Source: | UNK | |
| Operator: | Not reported | |
| Water System: | Not reported | |
| Well Name: | Not reported | |
| Approx. Dist To Production Well (ft): | | 6781.855551314429702431720363 4 |
| Source of Cleanup Funding: | | UNK |
| Preliminary Site Assessment Workplan Submitted: | | 2/28/2003 |
| Preliminary Site Assessment Began: | | Not reported |
| Pollution Characterization Began: | | 6/12/2003 |
| Remediation Plan Submitted: | | Not reported |
| Remedial Action Underway: | | Not reported |
| Post Remedial Action Monitoring Began: | | 6/3/2000 |
| Enforcement Action Date: | | Not reported |
| Historical Max MTBE Date: | | 2/20/2004 |
| Hist Max MTBE Conc in Groundwater: | | 1.7 |
| Hist Max MTBE Conc in Soil: | | 1900 |
| Significant Interim Remedial Action Taken: | | Not reported |
| GW Qualifier: | = | |
| Soil Qualifier: | = | |
| Organization: | Not reported | |
| Owner Contact: | Not reported | |
| Responsible Party: | NICK PUIG | |
| RP Address: | 43218 BUSINESS PARK DR., #201 | |
| Program: | LUST | |
| Lat/Long: | 34.083957 / -1 | |
| Local Agency Staff: | Not reported | |
| Beneficial Use: | Not reported | |
| Priority: | Not reported | |
| Cleanup Fund Id: | Not reported | |
| Suspended: | Not reported | |
| Assigned Name: | Not reported | |
| Summary: | LA CITY F.D. REFERRED CASE TO LARWQCB 2/26/02 | |

---

**G37** **MOBIL OIL CORP** **SWEEPS UST** **S101588036**
**NNE** **2620 S FIGUEROA ST** **CA FID UST** **N/A**
**1/8-1/4** **LOS ANGELES, CA 90007**
**0.230 mi.**
**1215 ft.** **Site 4 of 4 in cluster G**

**Relative:**
**Higher**

**Actual:**
**203 ft.**

SWEEPS UST:

| | |
|---|---|
| Status: | Active |
| Comp Number: | 6557 |
| Number: | 9 |
| Board Of Equalization: | Not reported |
| Referral Date: | 07-28-93 |
| Action Date: | 07-28-93 |
| Created Date: | 02-29-88 |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | Not reported |

**MOBIL OIL CORP (Continued)** **S101588036**

Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19056269
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2130000000
Mail To: Not reported
Mailing Address: 612 S FLOWER ST
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS ANGELES 900070000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

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**38**
**SSW**
**1/8-1/4**
**0.231 mi.**
**1222 ft.**

**Relative:**
**Higher**

**Actual:**
**200 ft.**

**FELIX CHEVROLET CO/C** **SWEEPS UST** **S101587516**
**3425 S FLOWER ST** **CA FID UST** **N/A**
**LOS ANGELES, CA 90007**

SWEEPS UST:
Status: Not reported
Comp Number: 4191
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19055714
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported

**FELIX CHEVROLET CO/C (Continued)** **S101587516**

| | |
|---|---|
| Facility Phone: | 2130000000 |
| Mail To: | Not reported |
| Mailing Address: | 3425 S FLOWER ST |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | LOS ANGELES 900070000 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

---

**39**
**SE**
**1/8-1/4**
**0.244 mi.**
**1286 ft.**

**T L A DESIGN INC**
**225 W 32ND ST**
**LOS ANGELES, CA 90007**

**RCRA-SQG** **1000820410**
**CAD983664459**

**Relative:**
**Higher**

**Actual:**
**202 ft.**

RCRA-SQG:

| | |
|---|---|
| Date form received by agency: | 11/27/2001 |
| Facility name: | T L A DESIGN INC |
| Facility address: | 225 W 32ND ST<br>LOS ANGELES, CA 90007 |
| EPA ID: | CAD983664459 |
| Contact: | KEVIN PARK |
| Contact address: | 225 W 32ND ST<br>LOS ANGELES, CA 90007 |
| Contact country: | US |
| Contact telephone: | (213) 749-0270 |
| Contact email: | Not reported |
| EPA Region: | 09 |
| Classification: | Small Small Quantity Generator |
| Description: | Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | YOUNG K CHONG |
| Owner/operator address: | 225 W 32ND ST<br>LOS ANGELES, CA 90007 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (213) 749-0270 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

| | |
|---|---|
| U.S. importer of hazardous waste: | No |
| Mixed waste (haz. and radioactive): | No |
| Recycler of hazardous waste: | No |
| Transporter of hazardous waste: | No |
| Treater, storer or disposer of HW: | No |
| Underground injection activity: | No |

**T L A DESIGN INC (Continued)** **1000820410**

| | |
|---|---|
| On-site burner exemption: | No |
| Furnace exemption: | No |
| Used oil fuel burner: | No |
| Used oil processor: | No |
| User oil refiner: | No |
| Used oil fuel marketer to burner: | No |
| Used oil Specification marketer: | No |
| Used oil transfer facility: | No |
| Used oil transporter: | No |

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

Violation Status: No violations found

---

**40 NNE 1/8-1/4 0.247 mi. 1305 ft.**

**MOM'S CLEANERS**
**2520 S FIGUEROA ST**
**LOS ANGELES, CA 90007**

**DRYCLEANERS** **S106835846**
**EMI** **N/A**

**Relative: Higher**

**Actual: 203 ft.**

DRYCLEANERS:

| | |
|---|---|
| EPA Id: | CAL000298846 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 09/26/2005 |
| Facility Active: | No |
| Inactive Date: | 10/31/2008 |
| Facility Addr2: | Not reported |
| Owner Name: | MOM'S CLEANERS |
| Owner Address: | 2520 S FIGUEROA ST |
| Owner Address 2: | Not reported |
| Owner Telephone: | 2137472147 |
| Contact Name: | YOUN KI KWAK OWNER |
| Contact Address: | 2520 S FIGUEROA ST |
| Contact Address 2: | Not reported |
| Contact Telephone: | 2137472147 |
| Mailing Name: | Not reported |
| Mailing Address 1: | 2520 S FIGUEROA ST |
| Mailing Address 2: | Not reported |
| Mailing City: | LOS ANGELES |
| Mailing State: | CA |
| Mailing Zip: | 900072549 |
| Owner Fax: | 3 |
| Region Code: | Not reported |

**MOM'S CLEANERS (Continued)** **S106835846**

| | |
|---|---|
| EPA Id: | CAL000340504 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 02/11/2009 |
| Facility Active: | Yes |
| Inactive Date: | Not reported |
| Facility Addr2: | Not reported |
| Owner Name: | YOUN KI KWAK |
| Owner Address: | 2520 S FIGUEROA ST |
| Owner Address 2: | Not reported |
| Owner Telephone: | 2137472147 |
| Contact Name: | YOUN KI KWAK OWNER |
| Contact Address: | 2520 S FIGUEROA ST |
| Contact Address 2: | Not reported |
| Contact Telephone: | 2137472147 |
| Mailing Name: | Not reported |
| Mailing Address 1: | 2520 S FIGUEROA ST |
| Mailing Address 2: | Not reported |
| Mailing City: | LOS ANGELES |
| Mailing State: | CA |
| Mailing Zip: | 900070000 |
| Owner Fax: | 3 |
| Region Code: | 0000000000 |

EMI:

| | |
|---|---|
| Year: | 1987 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 58360 |
| Air District Name: | SC |
| SIC Code: | 7216 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Year: | 1990 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 58360 |
| Air District Name: | SC |
| SIC Code: | 7216 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |

**MOM'S CLEANERS (Continued)** **S106835846**

SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

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**41**
**East**
**1/4-1/2**
**0.346 mi.**
**1829 ft.**

**A1 ELECTRONIC RECYCLING**
**2646 S HILL ST**
**LOS ANGELES, CA 90007**

**SWRCY** **S109850949**
**N/A**

**Relative:**
**Higher**

**Actual:**
**208 ft.**

SWRCY:

| | |
|---|---|
| Reg Id: | 41901 |
| Cert Id: | RC14511 |
| Mailing Address: | 11947 Menlo Ave |
| Mailing City: | Hawthorne |
| Mailing State: | CA |
| Mailing Zip Code: | 90250 |
| Website: | Not reported |
| Email: | a1recyclingteam@gmail.com |
| Phone Number: | (323) 481-0287 |
| Grand Father: | N |
| Rural: | N |
| Operation Begin Date: | 08/31/2009 |
| Aluminium: | Y |
| Glass: | Y |
| Plastic: | Y |
| Bimetal: | Y |
| Agency: | N/A |
| Monday Hours Of Operation: | 9:00 am - 5:00 pm |
| Tuesday Hours Of Operation: | 9:00 am - 5:00 pm |
| Wednesday Hours Of Operation: | 9:00 am - 5:00 pm |
| Thursday Hours Of Operation: | 9:00 am - 5:00 pm |
| Friday Hours Of Operation: | 9:00 am - 5:00 pm |
| Saturday Hours Of Operation: | 9:00 am - 5:00 pm |
| Sunday Hours Of Operation: | CLOSED |
| Organization ID: | 41901 |
| Organization Name: | A1 Electronic Recycling Team |

---

**42**
**WNW**
**1/4-1/2**
**0.386 mi.**
**2039 ft.**

**LA CITY FIRE STATION #15**
**915 JEFFERSON BLVD W**
**LOS ANGELES, CA 90007**

**LUST** **S104773310**
**N/A**

**Relative:**
**Higher**

**Actual:**
**191 ft.**

LUST:

| | |
|---|---|
| Region: | STATE |
| Global Id: | T0603793076 |
| Latitude: | 34.02433 |
| Longitude: | -118.285227 |
| Case Type: | LUST Cleanup Site |
| Status: | Completed - Case Closed |
| Status Date: | 08/16/2000 |
| Lead Agency: | LOS ANGELES, CITY OF |
| Case Worker: | EL |
| Local Agency: | LOS ANGELES, CITY OF |
| RB Case Number: | 900070052 |

**LA CITY FIRE STATION #15 (Continued)** **S104773310**

LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Aviation
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603793076
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0603793076
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Status History:
Global Id: T0603793076
Status: Completed - Case Closed
Status Date: 08/16/2000

Global Id: T0603793076
Status: Open - Case Begin Date
Status Date: 10/07/1999

Global Id: T0603793076
Status: Open - Site Assessment
Status Date: 10/07/1999

Regulatory Activities:
Global Id: T0603793076
Action Type: Other
Date: 10/07/1999
Action: Leak Discovery

Global Id: T0603793076
Action Type: Other
Date: 10/07/1999
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles

**LA CITY FIRE STATION #15 (Continued)** **S104773310**

| | | |
|---|---|---|
| Facility Id: | 900070052 | |
| Status: | Leak being confirmed | |
| Substance: | 1 | |
| Substance Quantity: | Not reported | |
| Local Case No: | Not reported | |
| Case Type: | Soil | |
| Abatement Method Used at the Site: | | Not reported |
| Global ID: | T0603793076 | |
| W Global ID: | Not reported | |
| Staff: | UNK | |
| Local Agency: | 19050 | |
| Cross Street: | Not reported | |
| Enforcement Type: | Not reported | |
| Date Leak Discovered: | 10/7/1999 | |
| Date Leak First Reported: | | 10/7/1999 |
| Date Leak Record Entered: | Not reported | |
| Date Confirmation Began: | 10/7/1999 | |
| Date Leak Stopped: | Not reported | |
| Date Case Last Changed on Database: | | 10/7/1999 |
| Date the Case was Closed: | | Not reported |
| How Leak Discovered: | Repair Tank | |
| How Leak Stopped: | Not reported | |
| Cause of Leak: | UNK | |
| Leak Source: | UNK | |
| Operator: | CITY OF LA FIRE DEPT. | |
| Water System: | Not reported | |
| Well Name: | Not reported | |
| Approx. Dist To Production Well (ft): | | 5364.35098163841205033644389 66 |
| Source of Cleanup Funding: | | UNK |
| Preliminary Site Assessment Workplan Submitted: | | Not reported |
| Preliminary Site Assessment Began: | | Not reported |
| Pollution Characterization Began: | | Not reported |
| Remediation Plan Submitted: | | Not reported |
| Remedial Action Underway: | | Not reported |
| Post Remedial Action Monitoring Began: | | Not reported |
| Enforcement Action Date: | | Not reported |
| Historical Max MTBE Date: | | Not reported |
| Hist Max MTBE Conc in Groundwater: | | Not reported |
| Hist Max MTBE Conc in Soil: | | Not reported |
| Significant Interim Remedial Action Taken: | | Not reported |
| GW Qualifier: | Not reported | |
| Soil Qualifier: | Not reported | |
| Organization: | Not reported | |
| Owner Contact: | Not reported | |
| Responsible Party: | CITY OF LOS ANGELES | |
| RP Address: | 419 S. SPRING ST., 12TH FL., LOS ANGELES, CA 90013 | |
| Program: | LUST | |
| Lat/Long: | 34.024585 / -1 | |
| Local Agency Staff: | PEJ | |
| Beneficial Use: | Not reported | |
| Priority: | Not reported | |
| Cleanup Fund Id: | Not reported | |
| Suspended: | Not reported | |
| Assigned Name: | Not reported | |
| Summary: | Not reported | |

**43 SW 1/4-1/2 0.474 mi. 2501 ft.** | **SPYGLASS GOLF MAINTENANCE**
**FIGUEROA ST**
**LOS ANGELES, CA 90071** | **HIST CORTESE** | **1001832619**
**N/A**

**Relative: Higher**

**Actual: 193 ft.**

HIST CORTESE:

| | |
|---|---|
| Region: | CORTESE |
| Facility County Code: | 19 |
| Reg By: | LTNKA |
| Reg Id: | 3015 |

---

**44 East 1/4-1/2 0.496 mi. 2618 ft.** | **UNOCAL #2579**
**2600 MAIN ST N**
**LOS ANGELES, CA 90031** | **LUST**
**HIST CORTESE** | **S101297116**
**N/A**

**Relative: Higher**

**Actual: 212 ft.**

LUST:

| | |
|---|---|
| Region: | STATE |
| Global Id: | T0603700804 |
| Latitude: | 34.0658581 |
| Longitude: | -118.2154673 |
| Case Type: | LUST Cleanup Site |
| Status: | Completed - Case Closed |
| Status Date: | 01/09/2003 |
| Lead Agency: | LOS ANGELES RWQCB (REGION 4) |
| Case Worker: | DMB |
| Local Agency: | LOS ANGELES, CITY OF |
| RB Case Number: | 900310234 |
| LOC Case Number: | Not reported |
| File Location: | Not reported |
| Potential Media Affect: | Aquifer used for drinking water supply |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

Contact:

| | |
|---|---|
| Global Id: | T0603700804 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | DAVID M. BJOSTAD |
| Organization Name: | LOS ANGELES RWQCB (REGION 4) |
| Address: | 320 W. 4th Street, Suite 200 |
| City: | Los Angeles |
| Email: | dave.bjostad@waterboards.ca.gov |
| Phone Number: | Not reported |

| | |
|---|---|
| Global Id: | T0603700804 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | ELOY LUNA |
| Organization Name: | LOS ANGELES, CITY OF |
| Address: | 200 North Main Street, Suite 1780 |
| City: | LOS ANGELES |
| Email: | eloy.luna@lacity.org |
| Phone Number: | Not reported |

Status History:

| | |
|---|---|
| Global Id: | T0603700804 |
| Status: | Completed - Case Closed |

**UNOCAL #2579 (Continued)** **S101297116**

Status Date: 01/09/2003

Global Id: T0603700804
Status: Open - Case Begin Date
Status Date: 08/29/1989

Global Id: T0603700804
Status: Open - Remediation
Status Date: 05/01/1996

Global Id: T0603700804
Status: Open - Remediation
Status Date: 01/16/1998

Global Id: T0603700804
Status: Open - Site Assessment
Status Date: 08/29/1989

Global Id: T0603700804
Status: Open - Site Assessment
Status Date: 09/01/1989

Global Id: T0603700804
Status: Open - Site Assessment
Status Date: 07/13/1990

Global Id: T0603700804
Status: Open - Site Assessment
Status Date: 03/01/1994

Global Id: T0603700804
Status: Open - Verification Monitoring
Status Date: 08/01/2000

Regulatory Activities:
Global Id: T0603700804
Action Type: Other
Date: 08/29/1989
Action: Leak Reported

Global Id: T0603700804
Action Type: ENFORCEMENT
Date: 12/20/2002
Action: * No Action

Global Id: T0603700804
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603700804
Action Type: ENFORCEMENT
Date: 08/14/1998
Action: * Historical Enforcement

Global Id: T0603700804
Action Type: RESPONSE

**UNOCAL #2579 (Continued)** **S101297116**

| | |
|---|---|
| Date: | 01/03/2003 |
| Action: | Other Report / Document |
| | |
| Global Id: | T0603700804 |
| Action Type: | RESPONSE |
| Date: | 03/28/2003 |
| Action: | Unknown |
| | |
| Global Id: | T0603700804 |
| Action Type: | ENFORCEMENT |
| Date: | 01/09/2003 |
| Action: | Closure/No Further Action Letter |

LUST REG 4:

| | |
|---|---|
| Region: | 4 |
| Regional Board: | 04 |
| County: | Los Angeles |
| Facility Id: | 900310234 |
| Status: | Case Closed |
| Substance: | Gasoline |
| Substance Quantity: | Not reported |
| Local Case No: | Not reported |
| Case Type: | Groundwater |
| Abatement Method Used at the Site: | Excavate and Dispose |
| Global ID: | T0603700804 |
| W Global ID: | W0605100649 |
| Staff: | TCS |
| Local Agency: | 19050 |
| Cross Street: | DALY ST |
| Enforcement Type: | CLOS |
| Date Leak Discovered: | Not reported |
| Date Leak First Reported: | 8/29/1989 |
| Date Leak Record Entered: | 9/5/1990 |
| Date Confirmation Began: | 8/29/1989 |
| Date Leak Stopped: | Not reported |
| Date Case Last Changed on Database: | 7/12/2002 |
| Date the Case was Closed: | 1/9/2003 |
| How Leak Discovered: | Not reported |
| How Leak Stopped: | Not reported |
| Cause of Leak: | UNK |
| Leak Source: | UNK |
| Operator: | Not reported |
| Water System: | DAVE GRIFFITH L A D W P |
| Well Name: | Not reported |
| Approx. Dist To Production Well (ft): | 8346.875677004793517506815171 |
| Source of Cleanup Funding: | UNK |
| Preliminary Site Assessment Workplan Submitted: | 9/1/1989 |
| Preliminary Site Assessment Began: | 7/13/1990 |
| Pollution Characterization Began: | 3/1/1994 |
| Remediation Plan Submitted: | 5/1/1996 |
| Remedial Action Underway: | 1/16/1998 |
| Post Remedial Action Monitoring Began: | 8/1/2000 |
| Enforcement Action Date: | 8/14/1998 |
| Historical Max MTBE Date: | 10/24/2001 |
| Hist Max MTBE Conc in Groundwater: | 380 |
| Hist Max MTBE Conc in Soil: | Not reported |

**UNOCAL #2579 (Continued)** **S101297116**

Significant Interim Remedial Action Taken: Yes
GW Qualifier: =
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: RICHARD WILLIAMS
RP Address: P.O. BOX 7600, BREA, CA 92822-7600
Program: LUST
Lat/Long: 34.0658581 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: 2600649-001GEN
Summary: 6/30/99 2ND QTR GW MON RPT 1999; 8/13/99 3RD QTR GW MON RPT 1999; 12/31/99 4TH QTR GW MON RPT 1999; 9/7/00 3RD QTR GW MON RPT 2000; 12/31/00 4TH QTR GW MON RPT 2000; 3/31/01 1ST QTR GW MON RPT 2001

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 900310234

---

**45**
**SE**
**1/2-1**
**0.543 mi.**
**2868 ft.**

**HERMETIC ASSOCIATED** **ENVIROSTOR** **1000298756**
**150 EAST JEFFERSON BOULEVARD** **N/A**
**LOS ANGELES, CA 90011**

**Relative:**
**Higher**

**Actual:**
**203 ft.**

ENVIROSTOR:
Facility ID: 19350289
Status: Refer: Other Agency
Status Date: 06/01/1995
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Chatsworth
Assembly: 59
Senate: 30
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.01759
Longitude: -118.2710
APN: 5120007025
Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED ORGANIC COMPOUNDS * HALOGENATED SOLVENTS * OIL/WATER SEPARATION SLUDGE * WASTE OIL & MIXED OIL

**HERMETIC ASSOCIATED (Continued)** **1000298756**

Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 5120007025
Alias Type: APN
Alias Name: CAD982359861
Alias Type: EPA Identification Number
Alias Name: 19350289
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/27/1988
Comments: PRELIM ASSESS DONE 4 SMALL FIRES BTW 1979-1985. SITE HAS SITE HAS SPRAY BOOTH AND DUST COLLECTION SITE REFERED TO LOS ANGELES CO. HLTH.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/07/1986
Comments: SITE SCREENING DONE PA RATIONALE: ADDITIONAL INFO NEEDED.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 01/06/1983
Comments: FACILITY IDENTIFIED LA CHAM OF COMM BUS DIR 1971-72 MANUFACTURER OF COMPRESSORS

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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**46**
**ESE**
**1/2-1**
**0.586 mi.**
**3096 ft.**

**CRES #18, SITE 3 5640006** **ENVIROSTOR** **S107736194**
**3109, 3113, 3115, 3119, 3121 SOUTH MAPLE AVENUE, AND 305 EAS** **SCH** **N/A**
**LOS ANGELES, CA 90011**

**Relative:**
**Higher**

**Actual:**
**208 ft.**

ENVIROSTOR:
Facility ID: 60000080
Status: Certified
Status Date: 05/06/2009
Site Code: 304492
Site Type: School Cleanup
Site Type Detailed: School
Acres: 2.43
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Stephanie Lewis

**CRES #18, SITE 3 5640006 (Continued)** **S107736194**

Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 59
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.0195
Longitude: -118.2686
APN: 5120-002-013, 5120-002-014, 5120-002-015, 5120-002-016, 5120-002-017
Past Use: * MISCELLANEOUS REPAIR SERVICES
Potential COC: Polychlorinated biphenyls (PCBs TPH-gas
Confirmed COC: 30018-NO 30025-NO
Potential Description: SOIL
Alias Name: LAUSD-PRPSD CRES #18 5640006
Alias Type: Alternate Name
Alias Name: 5120-002-013
Alias Type: APN
Alias Name: 5120-002-014
Alias Type: APN
Alias Name: 5120-002-015
Alias Type: APN
Alias Name: 5120-002-016
Alias Type: APN
Alias Name: 5120-002-017
Alias Type: APN
Alias Name: 110033616530
Alias Type: EPA (FRS #)
Alias Name: 304492
Alias Type: Project Code (Site Code)
Alias Name: 60000080
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 04/04/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/06/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/29/2009
Comments: Sent CRU to cost recovery.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 02/11/2005
Comments: accepted.

**CRES #18, SITE 3 5640006 (Continued)** **S107736194**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/21/2005
Comments: approval letter sent 12/21/2005

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 03/16/2006
Comments: SSI to delineate metals and TPH impacted soil. Fieldwork completed. SSI report in preparation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/02/2007
Comments: public comment period 02/08/2007 to 03/12/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 11/06/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/12/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/20/2007
Comments: RACR approved on 7/20/2007

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/03/2005
Comments: Rec'd Phase I Report for background information only

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

**CRES #18, SITE 3 5640006 (Continued)** **S107736194**

Schedule Revised Date: Not reported

SCH:

| | |
|---|---|
| Facility ID: | 60000080 |
| Site Type: | School Cleanup |
| Site Type Detail: | School |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 2.43 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Stephanie Lewis |
| Supervisor: | Javier Hinojosa |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Site Code: | 304492 |
| Assembly: | 59 |
| Senate: | 30 |
| Special Program Status: | Not reported |
| Status: | Certified |
| Status Date: | 05/06/2009 |
| Restricted Use: | NO |
| Funding: | School District |
| Latitude: | 34.0195 |
| Longitude: | -118.2686 |
| APN: | 5120-002-013, 5120-002-014, 5120-002-015, 5120-002-016, 5120-002-017 |
| Past Use: | * MISCELLANEOUS REPAIR SERVICES |
| Potential COC: | Polychlorinated biphenyls (PCBs, TPH-gas |
| Confirmed COC: | 30018-NO, 30025-NO |
| Potential Description: | SOIL |
| Alias Name: | LAUSD-PRPSD CRES #18 5640006 |
| Alias Type: | Alternate Name |
| Alias Name: | 5120-002-013 |
| Alias Type: | APN |
| Alias Name: | 5120-002-014 |
| Alias Type: | APN |
| Alias Name: | 5120-002-015 |
| Alias Type: | APN |
| Alias Name: | 5120-002-016 |
| Alias Type: | APN |
| Alias Name: | 5120-002-017 |
| Alias Type: | APN |
| Alias Name: | 110033616530 |
| Alias Type: | EPA (FRS #) |
| Alias Name: | 304492 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60000080 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Inspections/Visit (Non LUR) |
| Completed Date: | 04/04/2005 |
| Comments: | Not reported |

**CRES #18, SITE 3 5640006 (Continued)** **S107736194**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 05/06/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/29/2009
Comments: Sent CRU to cost recovery.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 02/11/2005
Comments: accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/21/2005
Comments: approval letter sent 12/21/2005

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 03/16/2006
Comments: SSI to delineate metals and TPH impacted soil. Fieldwork completed. SSI report in preparation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/02/2007
Comments: public comment period 02/08/2007 to 03/12/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 11/06/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/12/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/20/2007
Comments: RACR approved on 7/20/2007

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

**CRES #18, SITE 3 5640006 (Continued)** **S107736194**

| | |
|---|---|
| Completed Document Type: | Other Report |
| Completed Date: | 02/03/2005 |
| Comments: | Rec'd Phase I Report for background information only |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Environmental Oversight Agreement |
| Completed Date: | 02/10/2000 |
| Comments: | Not reported |
| | |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

---

**47**
**ENE**
**1/2-1**
**0.677 mi.**
**3575 ft.**

**2800 LA SERENA WAY**
**RANCHO CALIFORNI, CA 90080**

**Notify 65** **S100178188**
**N/A**

**Relative:**
**Higher**

**Actual:**
**217 ft.**

NOTIFY 65:

| | |
|---|---|
| Date Reported: | Not reported |
| Staff Initials: | Not reported |
| Board File Number: | Not reported |
| Facility Type: | Not reported |
| Discharge Date: | Not reported |
| Issue Date: | Not reported |
| Incident Description: | Not reported |

---

**48**
**SSE**
**1/2-1**
**0.717 mi.**
**3785 ft.**

**JEFFERSON NEW PRIMARY CENTER NO. 6**
**MAPLE AVENUE/36TH STREET/36TH PLACE**
**LOS ANGELES, CA 90011**

**ENVIROSTOR** **S107736508**
**SCH** **N/A**

**Relative:**
**Higher**

**Actual:**
**199 ft.**

ENVIROSTOR:

| | |
|---|---|
| Facility ID: | 19880055 |
| Status: | Inactive - Action Required |
| Status Date: | 08/20/2002 |
| Site Code: | 304163 |
| Site Type: | School Investigation |
| Site Type Detailed: | School |
| Acres: | 2 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Not reported |
| Supervisor: | Javier Hinojosa |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Assembly: | 59 |

**JEFFERSON NEW PRIMARY CENTER NO. 6 (Continued)** **S107736508**

Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.01559
Longitude: -118.2698
APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: Arsenic
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: JEFFERSON NEW PRIMARY CENTER #6
Alias Type: Alternate Name
Alias Name: LAUSD-JEFFERSON NEW PRIMARY CENTER #6
Alias Type: Alternate Name
Alias Name: LAUSD-JEFFERSON NEW PRIMARY CNTR #6/VCA
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 304031
Alias Type: Project Code (Site Code)
Alias Name: 304163
Alias Type: Project Code (Site Code)
Alias Name: 19880055
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 01/21/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 08/20/2002
Comments: The project was completed in September 2004.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/04/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Facility ID: 19880032
Status: No Further Action

**JEFFERSON NEW PRIMARY CENTER NO. 6 (Continued)** **S107736508**

| | |
|---|---|
| Status Date: | 10/10/2003 |
| Site Code: | 304267 |
| Site Type: | School Investigation |
| Site Type Detailed: | School |
| Acres: | 2 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Not reported |
| Supervisor: | Javier Hinojosa |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Assembly: | 53 |
| Senate: | 30 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | School District |
| Latitude: | 34.05227 |
| Longitude: | -118.2527 |
| APN: | NONE SPECIFIED |
| Past Use: | RESIDENTIAL AREA |
| Potential COC: | Toluene |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | SOIL |
| Alias Name: | JEFFERSON NEW PRIMARY CENTER #6 |
| Alias Type: | Alternate Name |
| Alias Name: | JEFFERSON NEW PRIMARY CENTER #6 (2ND) |
| Alias Type: | Alternate Name |
| Alias Name: | LAUSD-JEFFERSON NEW PC #6 (2ND) |
| Alias Type: | Alternate Name |
| Alias Name: | LOS ANGELES UNIFIED SCHOOL DISTRICT |
| Alias Type: | Alternate Name |
| Alias Name: | 304267 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 19880032 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Cost Recovery Closeout Memo |
| Completed Date: | 10/10/2003 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 03/15/2002 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Phase 1 |
| Completed Date: | 05/04/2001 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |

**JEFFERSON NEW PRIMARY CENTER NO. 6 (Continued)** **S107736508**

| | |
|---|---|
| Completed Document Type: | Supplemental Site Investigation Report |
| Completed Date: | 07/28/2003 |
| Comments: | Not reported |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Environmental Oversight Agreement |
| Completed Date: | 02/10/2000 |
| Comments: | Not reported |

| | |
|---|---|
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

SCH:

| | |
|---|---|
| Facility ID: | 19880055 |
| Site Type: | School Investigation |
| Site Type Detail: | School |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 2 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Not reported |
| Supervisor: | Javier Hinojosa |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Site Code: | 304163 |
| Assembly: | 59 |
| Senate: | 30 |
| Special Program Status: | Not reported |
| Status: | Inactive - Action Required |
| Status Date: | 08/20/2002 |
| Restricted Use: | NO |
| Funding: | School District |
| Latitude: | 34.01559 |
| Longitude: | -118.2698 |
| APN: | NONE SPECIFIED |
| Past Use: | RESIDENTIAL AREA |
| Potential COC: | Arsenic |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | SOIL |
| Alias Name: | JEFFERSON NEW PRIMARY CENTER #6 |
| Alias Type: | Alternate Name |
| Alias Name: | LAUSD-JEFFERSON NEW PRIMARY CENTER #6 |
| Alias Type: | Alternate Name |
| Alias Name: | LAUSD-JEFFERSON NEW PRIMARY CNTR #6/VCA |
| Alias Type: | Alternate Name |
| Alias Name: | LOS ANGELES UNIFIED SCHOOL DISTRICT |
| Alias Type: | Alternate Name |

**JEFFERSON NEW PRIMARY CENTER NO. 6 (Continued)** **S107736508**

| | |
|---|---|
| Alias Name: | 304031 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 304163 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 19880055 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Inspections/Visit (Non LUR) |
| Completed Date: | 01/21/2000 |
| Comments: | Not reported |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Cost Recovery Closeout Memo |
| Completed Date: | 08/20/2002 |
| Comments: | The project was completed in September 2004. |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Phase 1 |
| Completed Date: | 02/04/2000 |
| Comments: | Not reported |

| | |
|---|---|
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

| | |
|---|---|
| Facility ID: | 19880032 |
| Site Type: | School Investigation |
| Site Type Detail: | School |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 2 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Not reported |
| Supervisor: | Javier Hinojosa |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Site Code: | 304267 |
| Assembly: | 53 |
| Senate: | 30 |
| Special Program Status: | Not reported |
| Status: | No Further Action |
| Status Date: | 10/10/2003 |
| Restricted Use: | NO |
| Funding: | School District |
| Latitude: | 34.05227 |

**JEFFERSON NEW PRIMARY CENTER NO. 6 (Continued)** **S107736508**

| | |
|---|---|
| Longitude: | -118.2527 |
| APN: | NONE SPECIFIED |
| Past Use: | RESIDENTIAL AREA |
| Potential COC: | Toluene |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | SOIL |
| Alias Name: | JEFFERSON NEW PRIMARY CENTER #6 |
| Alias Type: | Alternate Name |
| Alias Name: | JEFFERSON NEW PRIMARY CENTER #6 (2ND) |
| Alias Type: | Alternate Name |
| Alias Name: | LAUSD-JEFFERSON NEW PC #6 (2ND) |
| Alias Type: | Alternate Name |
| Alias Name: | LOS ANGELES UNIFIED SCHOOL DISTRICT |
| Alias Type: | Alternate Name |
| Alias Name: | 304267 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 19880032 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Cost Recovery Closeout Memo |
| Completed Date: | 10/10/2003 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 03/15/2002 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Phase 1 |
| Completed Date: | 05/04/2001 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Supplemental Site Investigation Report |
| Completed Date: | 07/28/2003 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Environmental Oversight Agreement |
| Completed Date: | 02/10/2000 |
| Comments: | Not reported |
| | |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |

**JEFFERSON NEW PRIMARY CENTER NO. 6 (Continued)** **S107736508**

Schedule Revised Date: Not reported

---

**49 ENE 1/2-1 0.721 mi. 3806 ft.**

**SOUTH CENTRAL AREA NEW HS (SANTEE DAIRY)**
**231 EAST 23RD STREET**
**LOS ANGELES, CA 90011**

**ENVIROSTOR SCH** **S107737369 N/A**

**Relative: Higher**

**Actual: 217 ft.**

ENVIROSTOR:

| | |
|---|---|
| Facility ID: | 19590012 |
| Status: | No Further Action |
| Status Date: | 06/22/2007 |
| Site Code: | 304247 |
| Site Type: | School Investigation |
| Site Type Detailed: | School |
| Acres: | 22 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Shahir Haddad |
| Supervisor: | Shahir Haddad |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Assembly: | 53 |
| Senate: | 30 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | School District |
| Latitude: | 34.05227 |
| Longitude: | -118.2527 |
| APN: | NONE SPECIFIED |
| Past Use: | * RETIAL - MISC. |
| Potential COC: | Benzene Lead Tetrachloroethylene (PCE TPH-diesel |
| Confirmed COC: | 30022-NO 30024-NO 30003-NO 30013-NO |
| Potential Description: | SOIL, SV |
| Alias Name: | LAUSD-SANTEE DIARY SITE |
| Alias Type: | Alternate Name |
| Alias Name: | LOS ANGELES UNIFIED SCHOOL DISTRICT |
| Alias Type: | Alternate Name |
| Alias Name: | SANTEE DAIRY |
| Alias Type: | Alternate Name |
| Alias Name: | SOUTH CENTRAL AREA NEW HIGH SCHOOL |
| Alias Type: | Alternate Name |
| Alias Name: | 304247 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 19590012 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Cost Recovery Closeout Memo |
| Completed Date: | 06/22/2007 |
| Comments: | CRU Memo completed. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Environmental Oversight Agreement |

**SOUTH CENTRAL AREA NEW HS (SANTEE DAIRY) (Continued)** **S107737369**

Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/07/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/20/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 03/11/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/01/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/28/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/28/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 06/03/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/14/2005
Comments: DTSC letter completed.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported

**SOUTH CENTRAL AREA NEW HS (SANTEE DAIRY) (Continued)** **S107737369**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19590012
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 22
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Shahir Haddad
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304247
Assembly: 53
Senate: 30
Special Program Status: Not reported
Status: No Further Action
Status Date: 06/22/2007
Restricted Use: NO
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: * RETIAL - MISC.
Potential COC: Benzene, Lead, Tetrachloroethylene (PCE, TPH-diesel
Confirmed COC: 30022-NO, 30024-NO, 30003-NO, 30013-NO
Potential Description: SOIL, SV
Alias Name: LAUSD-SANTEE DIARY SITE
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SANTEE DAIRY
Alias Type: Alternate Name
Alias Name: SOUTH CENTRAL AREA NEW HIGH SCHOOL
Alias Type: Alternate Name
Alias Name: 304247
Alias Type: Project Code (Site Code)
Alias Name: 19590012
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/22/2007
Comments: CRU Memo completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000

**SOUTH CENTRAL AREA NEW HS (SANTEE DAIRY) (Continued)** **S107737369**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/07/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/20/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 03/11/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/01/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/28/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/28/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 06/03/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/14/2005
Comments: DTSC letter completed.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported

**SOUTH CENTRAL AREA NEW HS (SANTEE DAIRY) (Continued)** **S107737369**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

---

**50**
**SSE**
**1/2-1**
**0.856 mi.**
**4519 ft.**

**ACCELERATED CHARTER ELEMENTARY SCHOOL (ACES) EXPANSION PROJE** **ENVIROSTOR** **S111752595**
**3843-3859 WOODLAWN AVE./3818-3918 S. MAIN ST.** **SCH** **N/A**
**LOS ANGELES, CA 90011**

**Relative:**
**Higher**

**Actual:**
**189 ft.**

ENVIROSTOR:

| | |
|---|---|
| Facility ID: | 60001649 |
| Status: | No Further Action |
| Status Date: | 09/11/2012 |
| Site Code: | 404876 |
| Site Type: | School Investigation |
| Site Type Detailed: | School |
| Acres: | 0.89 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Christine Chiu |
| Supervisor: | Shahir Haddad |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Assembly: | 46 |
| Senate: | 30 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | School District |
| Latitude: | 34.01130 |
| Longitude: | -118.2732 |
| APN: | 512-1029-005, 512-1029-006, 512-1029-007, 512-1029-014, 512-1029-015, 512-1029-902, 512-1029-903, 512-1029-904, 512-1029-905, 512-1029-906, 512-1029-907, 512-1029-908, 512-1029-909, 512-1029-910, 512-1029-911, 5121-029-912, 5121-029-913 |
| Past Use: | EQUIPMENT/INSTRUMENT REPAIR, RESIDENTIAL AREA, TRANSPORTATION - WAREHOUSING |
| Potential COC: | Lead |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | SOIL |
| Alias Name: | ACES |
| Alias Type: | Alternate Name |
| Alias Name: | 512-1029-005 |
| Alias Type: | APN |
| Alias Name: | 512-1029-006 |
| Alias Type: | APN |
| Alias Name: | 512-1029-007 |
| Alias Type: | APN |
| Alias Name: | 512-1029-014 |
| Alias Type: | APN |
| Alias Name: | 512-1029-015 |
| Alias Type: | APN |
| Alias Name: | 512-1029-902 |
| Alias Type: | APN |
| Alias Name: | 512-1029-903 |
| Alias Type: | APN |
| Alias Name: | 512-1029-904 |
| Alias Type: | APN |

**ACCELERATED CHARTER ELEMENTARY SCHOOL (ACES) EXPANSION PROJE (Continued)** **S111752595**

Alias Name: 512-1029-905
Alias Type: APN
Alias Name: 512-1029-906
Alias Type: APN
Alias Name: 512-1029-907
Alias Type: APN
Alias Name: 512-1029-908
Alias Type: APN
Alias Name: 512-1029-909
Alias Type: APN
Alias Name: 512-1029-910
Alias Type: APN
Alias Name: 512-1029-911
Alias Type: APN
Alias Name: 5121-029-912
Alias Type: APN
Alias Name: 5121-029-913
Alias Type: APN
Alias Name: 404876
Alias Type: Project Code (Site Code)
Alias Name: 60001649
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 05/14/2012
Comments: On May 14, 2012, the Environmental Oversight Agreement for implementation of a Preliminary Endangerment Assessment was fully executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/17/2012
Comments: On September 17, 2012, DTSC prepared project close out Cost Recovery Unit Memorandum.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/25/2012
Comments: On June 25, 2012, DTSC conducted a conference call with The Accelerated Schools discussing the project strategy, timeline, and Background Information. TAS indicated it will provide DTSC a letter indicating that the Background Information will be considered a PEA Equivalent Report and the public comment period for the PEA will commence.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/11/2012
Comments: On September 11, 2012, DTSC approved the PEA Equivalent Report with a No Further Action determination.

Future Area Name: Not reported

**ACCELERATED CHARTER ELEMENTARY SCHOOL (ACES) EXPANSION PROJE (Continued)** **S111752595**

| | |
|---|---|
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

SCH:

| | |
|---|---|
| Facility ID: | 60001649 |
| Site Type: | School Investigation |
| Site Type Detail: | School |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 0.89 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Christine Chiu |
| Supervisor: | Shahir Haddad |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Site Code: | 404876 |
| Assembly: | 46 |
| Senate: | 30 |
| Special Program Status: | Not reported |
| Status: | No Further Action |
| Status Date: | 09/11/2012 |
| Restricted Use: | NO |
| Funding: | School District |
| Latitude: | 34.01130 |
| Longitude: | -118.2732 |
| APN: | 512-1029-005, 512-1029-006, 512-1029-007, 512-1029-014, 512-1029-015, 512-1029-902, 512-1029-903, 512-1029-904, 512-1029-905, 512-1029-906, 512-1029-907, 512-1029-908, 512-1029-909, 512-1029-910, 512-1029-911, 5121-029-912, 5121-029-913 |
| Past Use: | EQUIPMENT/INSTRUMENT REPAIR, RESIDENTIAL AREA, TRANSPORTATION - WAREHOUSING |
| Potential COC: | Lead |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | SOIL |
| Alias Name: | ACES |
| Alias Type: | Alternate Name |
| Alias Name: | 512-1029-005 |
| Alias Type: | APN |
| Alias Name: | 512-1029-006 |
| Alias Type: | APN |
| Alias Name: | 512-1029-007 |
| Alias Type: | APN |
| Alias Name: | 512-1029-014 |
| Alias Type: | APN |
| Alias Name: | 512-1029-015 |
| Alias Type: | APN |
| Alias Name: | 512-1029-902 |
| Alias Type: | APN |
| Alias Name: | 512-1029-903 |

**ACCELERATED CHARTER ELEMENTARY SCHOOL (ACES) EXPANSION PROJE (Continued)** **S111752595**

| | |
|---|---|
| Alias Type: | APN |
| Alias Name: | 512-1029-904 |
| Alias Type: | APN |
| Alias Name: | 512-1029-905 |
| Alias Type: | APN |
| Alias Name: | 512-1029-906 |
| Alias Type: | APN |
| Alias Name: | 512-1029-907 |
| Alias Type: | APN |
| Alias Name: | 512-1029-908 |
| Alias Type: | APN |
| Alias Name: | 512-1029-909 |
| Alias Type: | APN |
| Alias Name: | 512-1029-910 |
| Alias Type: | APN |
| Alias Name: | 512-1029-911 |
| Alias Type: | APN |
| Alias Name: | 5121-029-912 |
| Alias Type: | APN |
| Alias Name: | 5121-029-913 |
| Alias Type: | APN |
| Alias Name: | 404876 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60001649 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Environmental Oversight Agreement |
| Completed Date: | 05/14/2012 |
| Comments: | On May 14, 2012, the Environmental Oversight Agreement for implementation of a Preliminary Endangerment Assessment was fully executed. |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Cost Recovery Closeout Memo |
| Completed Date: | 09/17/2012 |
| Comments: | On September 17, 2012, DTSC prepared project close out Cost Recovery Unit Memorandum. |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Other Report |
| Completed Date: | 06/25/2012 |
| Comments: | On June 25, 2012, DTSC conducted a conference call with The Accelerated Schools discussing the project strategy, timeline, and Background Information. TAS indicated it will provide DTSC a letter indicating that the Background Information will be considered a PEA Equivalent Report and the public comment period for the PEA will commence. |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 09/11/2012 |
| Comments: | On September 11, 2012, DTSC approved the PEA Equivalent Report with a |

**ACCELERATED CHARTER ELEMENTARY SCHOOL (ACES) EXPANSION PROJE (Continued)** **S111752595**

No Further Action determination.

| | |
|---|---|
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

---

**51**
**East**
**1/2-1**
**0.883 mi.**
**4663 ft.**

**TRINITY PRIMARY SITE NO. 12**
**TRINITY STREET/23RD STREET/WALL STREET**
**LOS ANGELES, CA 90011**

**ENVIROSTOR** **S107737472**
**SCH** **N/A**

**Relative:**
**Higher**

**Actual:**
**219 ft.**

ENVIROSTOR:

| | |
|---|---|
| Facility ID: | 19880058 |
| Status: | Inactive - Withdrawn |
| Status Date: | 02/10/2000 |
| Site Code: | 304094 |
| Site Type: | School Investigation |
| Site Type Detailed: | School |
| Acres: | 1.51 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Not reported |
| Supervisor: | Mark Malinowski |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Assembly: | 59 |
| Senate: | 30 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | School District |
| Latitude: | 34.02494 |
| Longitude: | -118.2608 |
| APN: | NONE SPECIFIED |
| Past Use: | RESIDENTIAL AREA |
| Potential COC: | NONE SPECIFIED |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | LA USD-28TH/TRINITY PRIMRY ELEM. #12/VCA |
| Alias Type: | Alternate Name |
| Alias Name: | LAUSD-28TH TRINITY PRIMARY #12/CDE |
| Alias Type: | Alternate Name |
| Alias Name: | LOS ANGELES UNIFIED SCHOOL DISTRICT |
| Alias Type: | Alternate Name |
| Alias Name: | TRINITY PRIMARY SITE #12 |
| Alias Type: | Alternate Name |
| Alias Name: | 304054 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 304094 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 19880058 |

**TRINITY PRIMARY SITE NO. 12 (Continued)** **S107737472**

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/11/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19880058
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.51
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Mark Malinowski
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304094
Assembly: 59
Senate: 30
Special Program Status: Not reported
Status: Inactive - Withdrawn
Status Date: 02/10/2000
Restricted Use: NO
Funding: School District
Latitude: 34.02494
Longitude: -118.2608
APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: LA USD-28TH/TRINITY PRIMRY ELEM. #12/VCA
Alias Type: Alternate Name
Alias Name: LAUSD-28TH TRINITY PRIMARY #12/CDE

**TRINITY PRIMARY SITE NO. 12 (Continued)** **S107737472**

| | |
|---|---|
| Alias Type: | Alternate Name |
| Alias Name: | LOS ANGELES UNIFIED SCHOOL DISTRICT |
| Alias Type: | Alternate Name |
| Alias Name: | TRINITY PRIMARY SITE #12 |
| Alias Type: | Alternate Name |
| Alias Name: | 304054 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 304094 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 19880058 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Phase 1 |
| Completed Date: | 02/11/2000 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Environmental Oversight Agreement |
| Completed Date: | 02/10/2000 |
| Comments: | Not reported |
| | |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

---

**K52** **PALACE PLANTING** **RESPONSE** **S105024737**
**ESE** **710 29TH** **ENVIROSTOR** **N/A**
**1/2-1** **LOS ANGELES, CA 90011** **Cortese**
**0.922 mi.** **HIST CORTESE**
**4868 ft.** **Site 1 of 3 in cluster K** **NPDES**

**Relative:**
**Higher**

**Actual:**
**213 ft.**

RESPONSE:

| | |
|---|---|
| Facility ID: | 19340646 |
| Site Type: | State Response |
| Site Type Detail: | State Response or NPL |
| Acres: | 1 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Don Indermill |
| Supervisor: | Philip Chandler |
| Division Branch: | Cleanup Chatsworth |
| Site Code: | 301391 |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Assembly: | 59 |
| Senate: | 30 |
| Special Program Status: | Not reported |
| Status: | Active |

**PALACE PLANTING (Continued)** **S105024737**

| | |
|---|---|
| Status Date: | 05/05/2010 |
| Restricted Use: | NO |
| Funding: | Not reported |
| Latitude: | 34.01844 |
| Longitude: | -118.2626 |
| APN: | 5128015031, 5128015032 |
| Past Use: | METAL PLATING - OTHER |
| Potential COC : | * OXYGENATED SOLVENTS * UNSPECIFIED ACID SOLUTION * UNSPECIFIED SLUDGE WASTE * WASTE OIL & MIXED OIL Chromium VI Cyanide (free |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | SOIL, SV |
| Alias Name: | 5128015031 |
| Alias Type: | APN |
| Alias Name: | 5128015032 |
| Alias Type: | APN |
| Alias Name: | CAD008271090 |
| Alias Type: | EPA Identification Number |
| Alias Name: | 110000473274 |
| Alias Type: | EPA (FRS #) |
| Alias Name: | 301391 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 19340646 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Screening |
| Completed Date: | 05/12/1995 |
| Comments: | NFA FOR DTSC. |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Screening |
| Completed Date: | 11/16/1988 |
| Comments: | Site Screening Done: Due to wastewater discharges with high levels of cyanide and chromium, DHS will put together a HRS packet to see which agency should handle this site. |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Pilot Study/Treatability Workplan |
| Completed Date: | 12/09/2010 |
| Comments: | DTSC approved the revised Work Plan for implementation. |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Characterization Workplan |
| Completed Date: | 12/16/2008 |
| Comments: | DTSC approved the site assessment workplan for implementation. |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Remedial Investigation Report |
| Completed Date: | 01/11/2013 |
| Comments: | Approved with comments |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |

**PALACE PLANTING (Continued)** **S105024737**

Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Subst. Endangerment Determination
Completed Date: 04/16/2008
Comments: DTSC has issued an Order to the responsible parties for the Site for the purpose of investigation and remediation of releases of hazardous substances at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/10/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/24/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 10/01/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/30/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/11/1983
Comments: Facility Identified: LA Chamber of Commerce Bus. Dir 1969.

Future Area Name: OU-1 Shallow Soils
Future Sub Area Name: Not reported
Future Document Type: Removal Action Completion Report
Future Due Date: 2017
Future Area Name: OU-1 Shallow Soils
Future Sub Area Name: Not reported
Future Document Type: CEQA - Notice of Exemption
Future Due Date: 2016
Future Area Name: OU-1 Shallow Soils
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2016
Schedule Area Name: OU-1 Shallow Soils
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Workplan
Schedule Due Date: 04/30/2016
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Fact Sheets

**PALACE PLANTING (Continued)** **S105024737**

Schedule Due Date: 05/15/2016
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 19340646
Status: Active
Status Date: 05/05/2010
Site Code: 301391
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Don Indermill
Supervisor: Philip Chandler
Division Branch: Cleanup Chatsworth
Assembly: 59
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.01844
Longitude: -118.2626
APN: 5128015031, 5128015032
Past Use: METAL PLATING - OTHER
Potential COC: * OXYGENATED SOLVENTS * UNSPECIFIED ACID SOLUTION * UNSPECIFIED SLUDGE WASTE * WASTE OIL & MIXED OIL Chromium VI Cyanide (free
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL, SV
Alias Name: 5128015031
Alias Type: APN
Alias Name: 5128015032
Alias Type: APN
Alias Name: CAD008271090
Alias Type: EPA Identification Number
Alias Name: 110000473274
Alias Type: EPA (FRS #)
Alias Name: 301391
Alias Type: Project Code (Site Code)
Alias Name: 19340646
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/12/1995
Comments: NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/16/1988
Comments: Site Screening Done: Due to wastewater discharges with high levels of cyanide and chromium, DHS will put together a HRS packet to see which

**PALACE PLANTING (Continued)** **S105024737**

agency should handle this site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 12/09/2010
Comments: DTSC approved the revised Work Plan for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 12/16/2008
Comments: DTSC approved the site assessment workplan for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 01/11/2013
Comments: Approved with comments

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Subst. Endangerment Determination
Completed Date: 04/16/2008
Comments: DTSC has issued an Order to the responsible parties for the Site for the purpose of investigation and remediation of releases of hazardous substances at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/10/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/24/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 10/01/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/30/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/11/1983
Comments: Facility Identified: LA Chamber of Commerce Bus. Dir 1969.

**PALACE PLANTING (Continued)** **S105024737**

| | |
|---|---|
| Future Area Name: | OU-1 Shallow Soils |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Removal Action Completion Report |
| Future Due Date: | 2017 |
| Future Area Name: | OU-1 Shallow Soils |
| Future Sub Area Name: | Not reported |
| Future Document Type: | CEQA - Notice of Exemption |
| Future Due Date: | 2016 |
| Future Area Name: | OU-1 Shallow Soils |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Certification |
| Future Due Date: | 2016 |
| Schedule Area Name: | OU-1 Shallow Soils |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Removal Action Workplan |
| Schedule Due Date: | 04/30/2016 |
| Schedule Revised Date: | Not reported |
| Schedule Area Name: | PROJECT WIDE |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Fact Sheets |
| Schedule Due Date: | 05/15/2016 |
| Schedule Revised Date: | Not reported |

CORTESE:

| | |
|---|---|
| Region: | CORTESE |
| Envirostor Id: | 19340646 |
| Site/Facility Type: | STATE RESPONSE |
| Cleanup Status: | ACTIVE |
| Status Date: | 05/05/2010 |
| Site Code: | 301391 |
| Latitude: | 34.018449 |
| Longitude: | -118.26266 |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | envirostor |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |

HIST CORTESE:

| | |
|---|---|
| Region: | CORTESE |
| Facility County Code: | 19 |
| Reg By: | CALSI |
| Reg Id: | 19340646 |

NPDES:

| | |
|---|---|
| Npdes Number: | Not reported |
| Facility Status: | Not reported |
| Agency Id: | Not reported |
| Region: | 4 |
| Regulatory Measure Id: | 188858 |

**PALACE PLANTING (Continued)** **S105024737**

| | |
|---|---|
| Order No: | Not reported |
| Regulatory Measure Type: | Industrial |
| Place Id: | Not reported |
| WDID: | 4 19I001799 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| RECEIVED DATE: | 5/9/2008 |
| PROCESSED DATE: | 3/30/1992 |
| STATUS CODE NAME: | Active |
| STATUS DATE: | 3/30/1992 |
| PLACE SIZE: | 16000 |
| PLACE SIZE UNIT: | 53 |
| FACILITY CONTACT NAME: | Roger S Pierce |
| FACILITY CONTACT TITLE: | Not reported |
| FACILITY CONTACT PHONE: | 323-232-7263 |
| FACILITY CONTACT PHONE EXT: | Not reported |
| FACILITY CONTACT EMAIL: | Not reported |
| OPERATOR NAME: | Palace Plating |
| OPERATOR ADDRESS: | 710 E 29th St |
| OPERATOR CITY: | Los Angeles |
| OPERATOR STATE: | California |
| OPERATOR ZIP: | 90011 |
| OPERATOR CONTACT NAME: | Roger S Pierce |
| OPERATOR CONTACT TITLE: | Not reported |
| OPERATOR CONTACT PHONE: | 323-232-7263 |
| OPERATOR CONTACT PHONE EXT: | Not reported |
| OPERATOR CONTACT EMAIL: | Not reported |
| OPERATOR TYPE: | Private Business |
| DEVELOPER NAME: | Not reported |
| DEVELOPER ADDRESS: | Not reported |
| DEVELOPER CITY: | Not reported |
| DEVELOPER STATE: | California |
| DEVELOPER ZIP: | Not reported |
| DEVELOPER CONTACT NAME: | Not reported |
| DEVELOPER CONTACT TITLE: | Not reported |
| CONSTYPE LINEAR UTILITY IND: | Not reported |
| EMERGENCY PHONE NO: | 323-232-7263 |
| EMERGENCY PHONE EXT: | Not reported |
| CONSTYPE ABOVE GROUND IND: | Not reported |
| CONSTYPE BELOW GROUND IND: | Not reported |
| CONSTYPE CABLE LINE IND: | Not reported |
| CONSTYPE COMM LINE IND: | Not reported |
| CONSTYPE COMMERTIAL IND: | Not reported |
| CONSTYPE ELECTRICAL LINE IND: | Not reported |
| CONSTYPE GAS LINE IND: | Not reported |
| CONSTYPE INDUSTRIAL IND: | Not reported |
| CONSTYPE OTHER DESRIPTION: | Not reported |
| CONSTYPE OTHER IND: | Not reported |
| CONSTYPE RECONS IND: | Not reported |

**PALACE PLANTING (Continued)** **S105024737**

| | |
|---|---|
| CONSTYPE RESIDENTIAL IND: | Not reported |
| CONSTYPE TRANSPORT IND: | Not reported |
| CONSTYPE UTILITY DESCRIPTION: | Not reported |
| CONSTYPE UTILITY IND: | Not reported |
| CONSTYPE WATER SEWER IND: | Not reported |
| DIR DISCHARGE USWATER IND: | Not reported |
| RECEIVING WATER NAME: | Pacific Ocean |
| CERTIFIER NAME: | Not reported |
| CERTIFIER TITLE: | Not reported |
| CERTIFICATION DATE: | Not reported |
| PRIMARY SIC: | 3471-Electroplating, Plating, Polishing, Anodizing, and Coloring |
| SECONDARY SIC: | Not reported |
| TERTIARY SIC: | Not reported |

---

**K53**
**ESE**
**1/2-1**
**0.922 mi.**
**4868 ft.**

**Relative:**
**Higher**

**Actual:**
**213 ft.**

**PALACE PLATING**
**710 E. 29TH STREET.**
**LOS ANGELES, CA 90011**

**Site 2 of 3 in cluster K**

**SEMS-ARCHIVE** **1000144057**
**RCRA-LQG** **CAD008271090**
**ENVIROSTOR**
**SWEEPS UST**
**HIST UST**
**CA FID UST**
**US AIRS**
**EMI**
**HAZNET**
**WDS**

SEMS-ARCHIVE:

| | |
|---|---|
| Site ID: | 901014 |
| EPA ID: | CAD008271090 |
| Federal Facility: | N |
| NPL: | Not on the NPL |
| Non NPL Status: | NFRAP-Site does not qualify for the NPL based on existing information |

**Following information was gathered from the prior CERCLIS update completed in 10/2013:**

| | |
|---|---|
| Site ID: | 0901014 |
| Federal Facility: | Not a Federal Facility |
| NPL Status: | Not on the NPL |
| Non NPL Status: | NFRAP-Site does not qualify for the NPL based on existing information |

CERCLIS-NFRAP Site Contact Details:

| | |
|---|---|
| Contact Sequence ID: | 13287675.00000 |
| Person ID: | 13003854.00000 |
| Contact Sequence ID: | 13293270.00000 |
| Person ID: | 13003858.00000 |
| Contact Sequence ID: | 13299128.00000 |
| Person ID: | 13004003.00000 |

CERCLIS-NFRAP Site Alias Name(s):

| | |
|---|---|
| Alias Name: | CLIFFORD PIERCE (OWNER) |
| Alias Address: | Not reported |
| | CA |

CERCLIS-NFRAP Assessment History:

| | |
|---|---|
| Action: | PRELIMINARY ASSESSMENT |
| Date Started: | 05/01/86 |

**PALACE PLATING (Continued)** **1000144057**

Date Completed: 01/01/87
Priority Level: Low priority for further assessment

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 07/01/88
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: / /
Date Completed: 07/01/88
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: DISCOVERY
Date Started: / /
Date Completed: 05/01/86
Priority Level: Not reported

RCRA-LQG:
Date form received by agency: 03/02/2012
Facility name: PALACE PLATING
Facility address: 710 E. 29TH STREET.
LOS ANGELES, CA 90011
EPA ID: CAD008271090
Mailing address: E. 29TH STREET.
LOS ANGELES, CA 90011
Contact: ROGER S PIERCE
Contact address: E. 29TH STREET.
LOS ANGELES, CA 90011
Contact country: US
Contact telephone: (323) 232-7263
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: PALACE PLATING
Owner/operator address: E. 29TH STREET.
LOS ANGELES, CA 90011
Owner/operator country: Not reported
Owner/operator telephone: (323) 232-7263
Legal status: Private
Owner/Operator Type: Operator

**PALACE PLATING (Continued)** **1000144057**

Owner/Op start date: 01/01/1953
Owner/Op end date: Not reported

Owner/operator name: PALACE PLATING
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1953
Owner/Op end date: Not reported

Owner/operator name: CLIFFORD R. PIERCE JR.
Owner/operator address: 710 E. 29TH STREET
LOS ANGELES, CA 90011
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1961
Owner/Op end date: Not reported

Owner/operator name: JOAN M. PIERCE
Owner/operator address: E. 29TH STREET.
LOS ANGELES, CA 90011
Owner/operator country: Not reported
Owner/operator telephone: (323) 232-7263
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/05/2004
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: F006

**PALACE PLATING (Continued)** **1000144057**

. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F008
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Historical Generators:
Date form received by agency: 08/25/2010
Site name: PALACE PLATING
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F008
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 02/22/2008
Site name: PALACE PLATING
Classification: Large Quantity Generator

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 02/22/2006
Site name: PALACE PLATING
Classification: Small Quantity Generator

Date form received by agency: 02/22/2006
Site name: PALACE PLATING
Classification: Large Quantity Generator

**PALACE PLATING (Continued)** **1000144057**

. Waste code: D006
. Waste name: CADMIUM

Date form received by agency: 02/26/2002
Site name: PALACE PLATING
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: PALACE PLATING
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: PALACE PLATING
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: PALACE PLATING#
Classification: Large Quantity Generator

Date form received by agency: 03/26/1996
Site name: PALACE PLATING
Classification: Large Quantity Generator

Date form received by agency: 03/28/1994
Site name: PALACE PLATING
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992
Site name: PALACE PLATING#
Classification: Large Quantity Generator

Date form received by agency: 04/05/1990
Site name: PALACE PLATING
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: PALACE PLATING#
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 109374800

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 109374800

**PALACE PLATING (Continued)** **1000144057**

Waste code: F006
Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.
Amount (Lbs): 109374800

Waste code: F008
Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.
Amount (Lbs): 108840000

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/19/2010
Date achieved compliance: 08/19/2010
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/19/2010
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 07/25/2007
Date achieved compliance: 07/25/2007
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/25/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/09/2005
Date achieved compliance: 04/06/2006
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 07/24/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 60000

**PALACE PLATING (Continued)** **1000144057**

Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 03/09/2005
Date achieved compliance: 04/29/2005
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/09/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Tank System Standards
Date violation determined: 03/09/2005
Date achieved compliance: 04/06/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/09/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/09/2005
Date achieved compliance: 04/06/2006
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Tank System Standards
Date violation determined: 03/09/2005
Date achieved compliance: 04/06/2006
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

**PALACE PLATING (Continued)** **1000144057**

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/09/2005
Date achieved compliance: 04/06/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/09/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Tank System Standards
Date violation determined: 03/09/2005
Date achieved compliance: 04/06/2006
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 07/24/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 60000
Paid penalty amount: Not reported

Regulation violated: F - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 04/09/1999
Date achieved compliance: 11/30/1999
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/02/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 04/09/1999
Date achieved compliance: 11/30/1999
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 11/02/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

**PALACE PLATING (Continued)** **1000144057**

Evaluation Action Summary:

| | |
|---|---|
| Evaluation date: | 08/19/2010 |
| Evaluation: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of violation: | Generators - General |
| Date achieved compliance: | 08/19/2010 |
| Evaluation lead agency: | State |
| Evaluation date: | 07/25/2007 |
| Evaluation: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of violation: | Generators - General |
| Date achieved compliance: | 07/25/2007 |
| Evaluation lead agency: | State |
| Evaluation date: | 04/06/2006 |
| Evaluation: | NOT A SIGNIFICANT NON-COMPLIER |
| Area of violation: | Not reported |
| Date achieved compliance: | Not reported |
| Evaluation lead agency: | State |
| Evaluation date: | 07/08/2005 |
| Evaluation: | NON-FINANCIAL RECORD REVIEW |
| Area of violation: | Not reported |
| Date achieved compliance: | Not reported |
| Evaluation lead agency: | EPA |
| Evaluation date: | 03/09/2005 |
| Evaluation: | SIGNIFICANT NON-COMPLIER |
| Area of violation: | Not reported |
| Date achieved compliance: | Not reported |
| Evaluation lead agency: | State |
| Evaluation date: | 03/09/2005 |
| Evaluation: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of violation: | TSD - Tank System Standards |
| Date achieved compliance: | 04/06/2006 |
| Evaluation lead agency: | State |
| Evaluation date: | 03/09/2005 |
| Evaluation: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of violation: | Generators - General |
| Date achieved compliance: | 04/06/2006 |
| Evaluation lead agency: | State |
| Evaluation date: | 03/09/2005 |
| Evaluation: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of violation: | Generators - Records/Reporting |
| Date achieved compliance: | 04/29/2005 |
| Evaluation lead agency: | State |
| Evaluation date: | 04/09/1999 |
| Evaluation: | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Area of violation: | Generators - General |
| Date achieved compliance: | 11/30/1999 |
| Evaluation lead agency: | EPA |

ENVIROSTOR:

Facility ID: 71002166

**PALACE PLATING (Continued)** **1000144057**

| | |
|---|---|
| Status: | Inactive - Needs Evaluation |
| Status Date: | 06/01/2012 |
| Site Code: | Not reported |
| Site Type: | Tiered Permit |
| Site Type Detailed: | Tiered Permit |
| Acres: | 0.5 |
| NPL: | NO |
| Regulatory Agencies: | NONE SPECIFIED |
| Lead Agency: | NONE SPECIFIED |
| Program Manager: | Not reported |
| Supervisor: | Allan Plaza |
| Division Branch: | Cleanup Chatsworth |
| Assembly: | 59 |
| Senate: | 30 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Not reported |
| Latitude: | 34.01844 |
| Longitude: | -118.2626 |
| APN: | NONE SPECIFIED |
| Past Use: | NONE SPECIFIED |
| Potential COC: | NONE SPECIFIED |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | CAD008271090 |
| Alias Type: | EPA Identification Number |
| Alias Name: | 110000473274 |
| Alias Type: | EPA (FRS #) |
| Alias Name: | 71002166 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Phase I Verification |
| Completed Date: | 11/08/1999 |
| Comments: | Inspection report sent on 11/8/1999 |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | * Order |
| Completed Date: | 10/29/2007 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Phase 1 |
| Completed Date: | 12/12/2006 |
| Comments: | Not reported |
| | |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |

**PALACE PLATING (Continued)** **1000144057**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 2383
Number: Not reported
Board Of Equalization: 44-012338
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002383-000001
Tank Status: Not reported
Capacity: 600
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: 1

HIST UST:
File Number: 00027BC8
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027BC8.pdf
Region: STATE
Facility ID: 00000046985
Facility Type: Other
Other Type: ELECTRO-PLATING SHOP
Contact Name: CLIFFORD R. PIERCE JR.
Telephone: 2132327263
Owner Name: PALACE PLATING
Owner Address: 710 E. 29TH STREET
Owner City,St,Zip: LOS ANGELES, CA 90011
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1950
Tank Capacity: 00000600
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 4
Leak Detection: Visual

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 19028237
Regulated By: UTNKA
Regulated ID: 00046985
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2132327263
Mail To: Not reported
Mailing Address: 710 E 29TH ST
Mailing Address 2: Not reported

**PALACE PLATING (Continued)** **1000144057**

Mailing City,St,Zip: LOS ANGELES 900110000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

US AIRS MINOR:
Envid: 1000144057
Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
D and B Number: Not reported
Primary SIC Code: 3471
NAICS Code: 332813
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-04-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-07-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

**PALACE PLATING (Continued)** **1000144057**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-11-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-05-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: Title V Permits
Activity Date: 1998-07-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: Title V Permits
Activity Date: 1999-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ173
Facility Registry ID: 110000473274
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: Title V Permits
Activity Date: 2003-11-07 00:00:00

**PALACE PLATING (Continued)** **1000144057**

| | |
|---|---|
| Activity Status Date: | Not reported |
| Activity Group: | Compliance Monitoring |
| Activity Type: | Inspection/Evaluation |
| Activity Status: | Not reported |

| | |
|---|---|
| Region Code: | 09 |
| Programmatic ID: | AIR CASCA00006037CJ173 |
| Facility Registry ID: | 110000473274 |
| Air Operating Status Code: | OPR |
| Default Air Classification Code: | MIN |
| Air Program: | Title V Permits |
| Activity Date: | 2008-05-23 00:00:00 |
| Activity Status Date: | Not reported |
| Activity Group: | Compliance Monitoring |
| Activity Type: | Inspection/Evaluation |
| Activity Status: | Not reported |

EMI:

| | |
|---|---|
| Year: | 1987 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 8 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Year: | 1990 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 9 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Year: | 1995 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |

**PALACE PLATING (Continued)** **1000144057**

| | |
|---|---|
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 11 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Year: | 1996 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 9 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Year: | 1997 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 11 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Year: | 1998 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 11 |

**PALACE PLATING (Continued)** **1000144057**

| | |
|---|---|
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Year: | 1999 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 11 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Year: | 2000 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 11 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Year: | 2001 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Y |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

**PALACE PLATING (Continued)** **1000144057**

| | |
|---|---|
| Year: | 2002 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Year: | 2003 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Year: | 2004 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Y |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.05565 |
| Reactive Organic Gases Tons/Yr: | 0.05 |
| Carbon Monoxide Emissions Tons/Yr: | 0.0227 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0.0845 |
| SOX - Oxides of Sulphur Tons/Yr: | 0.000539 |
| Particulate Matter Tons/Yr: | 0.0064164 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Year: | 2005 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |

**PALACE PLATING (Continued)** **1000144057**

| | |
|---|---|
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | .017300625 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | .01320311875 |

| | |
|---|---|
| Year: | 2006 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | .003 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | .00057 |

| | |
|---|---|
| Year: | 2007 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | .003 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | .00057 |

| | |
|---|---|
| Year: | 2008 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |

**PALACE PLATING (Continued)** **1000144057**

| | |
|---|---|
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | .003290543754 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | .00062520331326 |

| | |
|---|---|
| Year: | 2009 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0.01204033 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 9.9876627000000003E-3 |

| | |
|---|---|
| Year: | 2011 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 22410 |
| Air District Name: | SC |
| SIC Code: | 3471 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0.0032124041295 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0.0006103567846 |

HAZNET:

| | |
|---|---|
| envid: | 1000144057 |
| Year: | 2012 |
| GEPAID: | CAD008271090 |
| Contact: | CLIFF PIERCE |
| Telephone: | 3232327263 |
| Mailing Name: | Not reported |
| Mailing Address: | 710 E 29TH ST |
| Mailing City,St,Zip: | LOS ANGELES, CA 900112014 |
| Gen County: | Los Angeles |
| TSD EPA ID: | NVD980895338 |
| TSD County: | 99 |
| Waste Category: | Not reported |
| Disposal Method: | Cyanide Destruction With Or Without Precipitation |
| Tons: | 0.165 |
| Cat Decode: | Not reported |
| Method Decode: | Cyanide Destruction With Or Without Precipitation |
| Facility County: | Los Angeles |

**PALACE PLATING (Continued)** **1000144057**

envid: 1000144057
Year: 2012
GEPAID: CAD008271090
Contact: CLIFF PIERCE
Telephone: 3232327263
Mailing Name: Not reported
Mailing Address: 710 E 29TH ST
Mailing City,St,Zip: LOS ANGELES, CA 900112014
Gen County: Los Angeles
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Not reported
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Tons: 3.44025
Cat Decode: Not reported
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: 1000144057
Year: 2012
GEPAID: CAD008271090
Contact: CLIFF PIERCE
Telephone: 3232327263
Mailing Name: Not reported
Mailing Address: 710 E 29TH ST
Mailing City,St,Zip: LOS ANGELES, CA 900112014
Gen County: Los Angeles
TSD EPA ID: NVD980895338
TSD County: 99
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.02085
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1000144057
Year: 2012
GEPAID: CAD008271090
Contact: CLIFF PIERCE
Telephone: 3232327263
Mailing Name: Not reported
Mailing Address: 710 E 29TH ST
Mailing City,St,Zip: LOS ANGELES, CA 900112014
Gen County: Los Angeles
TSD EPA ID: AZD081705402
TSD County: 99
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.825
Cat Decode: Not reported
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

**PALACE PLATING (Continued)** **1000144057**

(H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: 1000144057
Year: 2012
GEPAID: CAD008271090
Contact: CLIFF PIERCE
Telephone: 3232327263
Mailing Name: Not reported
Mailing Address: 710 E 29TH ST
Mailing City,St,Zip: LOS ANGELES, CA 900112014
Gen County: Los Angeles
TSD EPA ID: AZD081705402
TSD County: 99
Waste Category: Not reported
Disposal Method: Not reported
Tons: 0.0075
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
71 additional CA_HAZNET: record(s) in the EDR Site Report.

WDS:
Facility ID: 4 19I001799
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 4
Facility Telephone: 3232327263
Facility Contact: CLIFFORD R PIERCE
Agency Name: PALACE PLATING
Agency Address: 710 E 29th St
Agency City,St,Zip: Los Angeles 900112087
Agency Contact: CLIFFORD R PIERCE
Agency Telephone: 3232327263
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported

**PALACE PLATING (Continued)** **1000144057**

POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

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**K54**
**ESE**
**1/2-1**
**0.954 mi.**
**5038 ft.**

**28TH STREET ELEMENTARY SCHOOL**
**2807 STANFORD AVENUE**
**LOS ANGELES, CA 90011**

**ENVIROSTOR** **S105722040**
**SCH** **N/A**
**EMI**

**Site 3 of 3 in cluster K**

**Relative:**
**Higher**

**Actual:**
**214 ft.**

ENVIROSTOR:
Facility ID: 19820125
Status: Active
Status Date: 04/23/2004
Site Code: 304448
Site Type: School Cleanup
Site Type Detailed: School
Acres: 18.7
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Ivy Osornio
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 59
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.01890
Longitude: -118.2618
APN: 5128016904, 5128016910
Past Use: UNKNOWN
Potential COC: Lead Tetrachloroethylene (PCE
Confirmed COC: Tetrachloroethylene (PCE Lead
Potential Description: SOIL
Alias Name: LAUSD-28TH STREET ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: 5128016904
Alias Type: APN
Alias Name: 5128016910
Alias Type: APN
Alias Name: 304448
Alias Type: Project Code (Site Code)
Alias Name: 19820125
Alias Type: Envirostor ID Number

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 09/01/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 12/31/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/22/2008
Comments: Submitted response letter to LAUSD in response to Palace Plating Impacts at the school.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/23/2004
Comments: DTSC conducted wipe and soil sampling at the school. Results indicate no hex chrome present on surfaces. LAUSD should do housekeeping for lead.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/23/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/10/2006
Comments: Document not finalized due to financial constraints. Based on findings, additional investigation for potential indoor air threats required in phased approach to be documented in a PEA Equivalent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/22/2006
Comments: Soil gas analysis was conducted on 12/22/06.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

Completed Date: 01/11/2007
Comments: Issued comments and approved the Indoor Air Sampling and Analysis Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/02/2008
Comments: Approved the FSI/SFSI Report. The FSI/SFSI was prepared to document historical investigation activities conducted to evaluate potential environmental impacts associated with historical onsite and off-site activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/22/2007
Comments: Issued an response to the community comments and concerns.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 03/30/2007
Comments: DTSC reviewed and concurred with the Focus Supplemental Site Investigation via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/04/2007
Comments: The response to community letter issued on March 26, 2007 was translated from English to Spanish.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/12/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/14/2007
Comments: Conducted site visit to observe crawlspace and indoor air summa canisters sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 04/13/2007
Comments: Reviewed and approved the Indoor Air Sampling Plan via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 08/16/2007

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

Comments: Approved the Indoor Air Sampling and Analysis Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 08/20/2007
Comments: Approved the Soil Vapor Sampling Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 10/16/2007
Comments: 10/16/07

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/22/2007
Comments: Approved the Data Submittal Memorandum (DSM)on October 22, 2007. The DSM was prepared to assess the heating, ventilation, and air conditioning (HVAC)modifications effectiveness.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/19/2008
Comments: Received the Indoor Air Sampling and Anaylisis Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/21/2008
Comments: Approved the Quaterley Indoor Air Sampling Plan via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/12/2009
Comments: O&M Plan approved on March 12, 2009

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/20/2008
Comments: Reviewed the Indoor air Sampling & Analysis Report (B3 & B4).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 04/21/2008
Comments: Approved the IASAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/21/2008
Comments: Approved the 2nd Quarter Indoor Air Sampling and Analysis Report.

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

Bungalow B-2 will be re-sampled and bungalows B-3 & B-4 will remain unoccupied until mitigation measures reduce PCE levels below the DTSC action level of 3 ug/m3.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/22/2009
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/02/2011
Comments: DTSC concurs with the recommendations and approves the document as final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/04/2010
Comments: DTSC concurs with the Indoor Air Sampling Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/21/2010
Comments: DTSC recommends not occupying classrooms B3 and B4 until consisten monitoring shows concentrations below action levels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/05/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/12/2011
Comments: Report concurrence letter completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/12/2011
Comments: Report concurrence letter completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/25/2011
Comments: DTSC letter completed concurring w/ recommendation to reduce the indoor air sampling from quarterly to annually.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

Completed Document Type: Monitoring Report
Completed Date: 12/05/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/14/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/17/2013
Comments: DTSC approved the O&M report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/23/2015
Comments: DTSC reviewed the report and finds that the Site is still safe for occupancy

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/11/2008
Comments: DTSC issued an update on environmental activities. The letter recommends that LAUSD implement updated measures to address the persistent indoor PCE air impacts.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/15/2008
Comments: Issued a revised environmental update letter to the parents faculty and staff of 28th Street Elementary School.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Substantial Endangerment Order
Completed Date: 04/16/2008
Comments: A Imminent and Substantial Endangerment Determination (ISED)Order was issued. The ISED Order was issued to the the responsible parties for the purpose of investigation and remediation of releases of hazardous substances at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/11/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/11/2006
Comments: LAUSD requested DTSC assistance in evaluating three stockpiles generated as part of a playground re-paving project. District contractor generated and stockpiled approximately 650 cy of soil. Two stockpiles were classified as non-haz and one stockpile was classified as CA hazardous waste due to high STLC conc.s for lead. In addition, district contractor buried some of CA waste on site. DTSC advised LUASD to remove stockpiles ASAP and investigate potential sources of contamination extent of in-situ contamination.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19820125
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 18.7
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Ivy Osornio
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304448
Assembly: 59
Senate: 30
Special Program Status: Not reported
Status: Active
Status Date: 04/23/2004
Restricted Use: NO
Funding: School District
Latitude: 34.01890
Longitude: -118.2618
APN: 5128016904, 5128016910
Past Use: UNKNOWN

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

Potential COC: Lead, Tetrachloroethylene (PCE
Confirmed COC: Tetrachloroethylene (PCE, Lead
Potential Description: SOIL
Alias Name: LAUSD-28TH STREET ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: 5128016904
Alias Type: APN
Alias Name: 5128016910
Alias Type: APN
Alias Name: 304448
Alias Type: Project Code (Site Code)
Alias Name: 19820125
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 09/01/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 12/31/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/22/2008
Comments: Submitted response letter to LAUSD in response to Palace Plating Impacts at the school.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/23/2004
Comments: DTSC conducted wipe and soil sampling at the school. Results indicate no hex chrome present on surfaces. LAUSD should do housekeeping for lead.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/23/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/10/2006

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

Comments: Document not finalized due to financial constraints. Based on findings, additional investigation for potential indoor air threats required in phased approach to be documented in a PEA Equivalent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/22/2006
Comments: Soil gas analysis was conducted on 12/22/06.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 01/11/2007
Comments: Issued comments and approved the Indoor Air Sampling and Analysis Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/02/2008
Comments: Approved the FSI/SFSI Report. The FSI/SFSI was prepared to document historical investigation activities conducted to evaluate potential environmental impacts associated with historical onsite and off-site activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/22/2007
Comments: Issued an response to the community comments and concerns.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 03/30/2007
Comments: DTSC reviewed and concurred with the Focus Supplemental Site Investigation via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/04/2007
Comments: The response to community letter issued on March 26, 2007 was translated from English to Spanish.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/12/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/14/2007
Comments: Conducted site visit to observe crawlspace and indoor air summa

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

canisters sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 04/13/2007
Comments: Reviewed and approved the Indoor Air Sampling Plan via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 08/16/2007
Comments: Approved the Indoor Air Sampling and Analysis Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 08/20/2007
Comments: Approved the Soil Vapor Sampling Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 10/16/2007
Comments: 10/16/07

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 10/22/2007
Comments: Approved the Data Submittal Memorandum (DSM)on October 22, 2007. The DSM was prepared to assess the heating, ventilation, and air conditioning (HVAC)modifications effectiveness.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/19/2008
Comments: Received the Indoor Air Sampling and Anaylisis Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/21/2008
Comments: Approved the Quaterley Indoor Air Sampling Plan via electronic mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/12/2009
Comments: O&M Plan approved on March 12, 2009

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/20/2008

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

Comments: Reviewed the Indoor air Sampling & Analysis Report (B3 & B4).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 04/21/2008
Comments: Approved the IASAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/21/2008
Comments: Approved the 2nd Quarter Indoor Air Sampling and Analysis Report. Bungalow B-2 will be re-sampled and bungalows B-3 & B-4 will remain unoccupied until mitigation measures reduce PCE levels below the DTSC action level of 3 ug/m3.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/22/2009
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/02/2011
Comments: DTSC concurs with the recommendations and approves the document as final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/04/2010
Comments: DTSC concurs with the Indoor Air Sampling Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/21/2010
Comments: DTSC recommends not occupying classrooms B3 and B4 until consisten monitoring shows concentrations below action levels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/05/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/12/2011
Comments: Report concurrence letter completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

Completed Document Type: Monitoring Report
Completed Date: 07/12/2011
Comments: Report concurrence letter completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/25/2011
Comments: DTSC letter completed concurring w/ recommendation to reduce the indoor air sampling from quarterly to annually.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/05/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/14/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/17/2013
Comments: DTSC approved the O&M report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/23/2015
Comments: DTSC reviewed the report and finds that the Site is still safe for occupancy

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/11/2008
Comments: DTSC issued an update on environmental activities. The letter recommends that LAUSD implement updated measures to address the persistent indoor PCE air impacts.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/15/2008
Comments: Issued a revised environmental update letter to the parents faculty and staff of 28th Street Elementary School.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Substantial Endangerment Order
Completed Date: 04/16/2008
Comments: A Imminent and Substantial Endangerment Determination (ISED)Order was issued. The ISED Order was issued to the the responsible parties for

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

the purpose of investigation and remediation of releases of hazardous substances at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/11/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/11/2006
Comments: LAUSD requested DTSC assistance in evaluating three stockpiles generated as part of a playground re-paving project. District contractor generated and stockpiled approximately 650 cy of soil. Two stockpiles were classified as non-haz and one stockpile was classified as CA hazardous waste due to high STLC conc.s for lead. In addition, district contractor buried some of CA waste on site. DTSC advised LUASD to remove stockpiles ASAP and investigate potential sources of contamination extent of in-situ contamination.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

EMI:
Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 72776
Air District Name: SC
SIC Code: 8211
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0

**28TH STREET ELEMENTARY SCHOOL (Continued)** **S105722040**

| | |
|---|---|
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

Count: 12 records.

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| LOS ANGELES | S105628500 | MANUAL ARTS NEW PRIMARY CENTER NO. | 46TH STREET/SOUTH VERMONT AVEN | 90037 | ENVIROSTOR, SCH |
| LOS ANGELES | S107534893 | | 54TH ST & WILTON-541 SEEON AVE | | CDL |
| LOS ANGELES | S107736972 | ORTHOPEDIC HOSPITAL MAGNET HIGH SC | WEST ADAMS BOULEVARD/SOUTH GRA | 90007 | ENVIROSTOR, SCH |
| LOS ANGELES | S107538594 | | GRAND AVE (CROSS OF 51ST & 52N | | CDL |
| LOS ANGELES | S107736663 | MANUAL ARTS NEW ELEMENTARY SCHOOL | JEFFERSON BOULEVARD/SOUTH CATA | 90007 | ENVIROSTOR, SCH |
| LOS ANGELES | S105628652 | CALIFORNIA FASHION INDUSTRIES | MARTIN LUTHER KING BLVD/S. MAI | 90037 | ENVIROSTOR, SCH |
| LOS ANGELES | S105628622 | JEFFERSON ELEMENTARY SCHOOL NO. 1 | MARTIN LUTHER KING JR. BLVD./A | 90011 | ENVIROSTOR, SCH |
| LOS ANGELES | S107540562 | | SAN FERNANDO RD & N HOLLYWOOD | | CDL |
| LOS ANGELES COUNTY | S107531547 | | 240TH ST & AVE J EAST | | CDL |
| LOS ANGELES COUNTY | S107537787 | | BARSTOW & SANTA FE | | CDL |
| LOS ANGELES COUNTY | S107539628 | | OAKMAN DR/BETW BUNBURY & GUINE | | CDL |
| LOS ANGELES COUNTY | S107541010 | | VEH STOP: AZUSA & AROMA AVE | | CDL |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### *Federal NPL site list*

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

| | |
|---|---|
| Date of Government Version: 03/07/2016 | Source: EPA |
| Date Data Arrived at EDR: 04/05/2016 | Telephone: N/A |
| Date Made Active in Reports: 04/15/2016 | Last EDR Contact: 07/07/2016 |
| Number of Days to Update: 10 | Next Scheduled EDR Contact: 10/17/2016 |
| | Data Release Frequency: Quarterly |

***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

| | |
|---|---|
| Date of Government Version: 11/13/2015 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 01/06/2016 | Telephone: 703-603-8704 |
| Date Made Active in Reports: 05/20/2016 | Last EDR Contact: 07/06/2016 |
| Number of Days to Update: 135 | Next Scheduled EDR Contact: 10/17/2016 |
| | Data Release Frequency: Varies |

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

| | |
|---|---|
| Date of Government Version: 03/07/2016 | Source: EPA |
| Date Data Arrived at EDR: 04/05/2016 | Telephone: 800-424-9346 |
| Date Made Active in Reports: 04/15/2016 | Last EDR Contact: 07/22/2016 |
| Number of Days to Update: 10 | Next Scheduled EDR Contact: 10/31/2016 |
| | Data Release Frequency: Quarterly |

***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/22/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Quarterly

***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

***Federal institutional controls / engineering controls registries***

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/12/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 51

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

***State- and tribal - equivalent NPL***

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 05/04/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 05/04/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 34

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/16/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Quarterly

***State and tribal leaking storage tank lists***

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 56

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/13/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 105

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 112

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Semi-Annually

SLIC: Statewide SLIC Cases
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 56
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/13/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

***State and tribal registered storage tank lists***

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 55

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 119

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Semi-Annually

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 120

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

***State and tribal voluntary cleanup sites***

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 05/04/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

***State and tribal Brownfields sites***

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 02/29/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/22/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/21/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

***Local Lists of Landfill / Solid Waste Disposal Sites***

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 56

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 06/16/2016
Date Data Arrived at EDR: 06/16/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 54

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/10/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/05/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: No Update Planned

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/31/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 05/04/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 05/10/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Quarterly

***Local Lists of Registered Storage Tanks***

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 06/07/2016
Date Data Arrived at EDR: 06/09/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 14

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Local Land Records***

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/06/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 43

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Semi-Annually

***Records of Emergency Release Reports***

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 06/28/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 87

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/27/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/03/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing
The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 56

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/13/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing
The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 56

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/13/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Other Ascertainable Records***

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/15/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 05/08/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 107

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/08/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 09/06/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/26/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 99

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/12/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 28

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/05/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/06/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/26/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/07/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 148

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 09/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/01/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 06/28/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 51

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/27/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 06/22/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 48

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/27/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 54

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/22/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 49

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/10/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 58

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Annually

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/23/2016
Date Data Arrived at EDR: 05/25/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 56

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/11/2016
Date Data Arrived at EDR: 07/13/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 56

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 43

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 36

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/16/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 06/06/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 43

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 56

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 02/12/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 89

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/20/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

ICE: ICE
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/23/2016
Date Data Arrived at EDR: 05/25/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 56

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/25/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 49

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**COUNTY RECORDS**

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 07/07/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/07/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 27

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List
Cupa Facility List

Date of Government Version: 06/06/2016
Date Data Arrived at EDR: 06/09/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 12

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 18

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 07/20/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 60

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 22

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 09/06/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 55

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/01/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 04/08/2016
Date Data Arrived at EDR: 05/03/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 50

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/13/2016
Date Data Arrived at EDR: 07/19/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 21

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/08/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 41

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/22/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 07/25/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/20/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 80

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/27/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 26

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 04/26/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 51

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 08/19/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/05/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/18/2016
Date Data Arrived at EDR: 04/20/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 42

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/19/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/18/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/23/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/18/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 32

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 04/07/2016
Date Data Arrived at EDR: 04/26/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 36

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 32

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 21

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 08/22/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 07/25/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/17/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 35

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/08/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/17/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 35

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/08/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/11/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/09/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 06/16/2016
Date Data Arrived at EDR: 06/20/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 50

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/13/2016
Date Data Arrived at EDR: 04/15/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 24

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/13/2016
Date Data Arrived at EDR: 07/18/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 21

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 07/06/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 43

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/06/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 07/06/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 43

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/05/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/10/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 40

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 08/08/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/16/2016
Date Data Arrived at EDR: 06/20/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 49

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/23/2016
Date Data Arrived at EDR: 05/24/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 28

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 15

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 57

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/26/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 49

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 05/31/2016
Date Data Arrived at EDR: 06/02/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 19

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 06/14/2016
Date Data Arrived at EDR: 06/16/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 54

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/22/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 57

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 55

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 07/10/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 28

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/01/2016
Date Data Arrived at EDR: 07/05/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 44

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 16

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 05/03/2016
Date Data Arrived at EDR: 05/10/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 38

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 06/28/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/10/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 54

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/26/2016
Date Data Arrived at EDR: 06/16/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 54

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/05/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 35

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 04/29/2016
Date Data Arrived at EDR: 05/03/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 45

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

**OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/10/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/11/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/03/2016
Date Made Active in Reports: 09/09/2016
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/18/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/20/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

**STREET AND ADDRESS INFORMATION**

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# Appendix 3

*Historical Research Documentation*

Canfield

505 & 511 West 31st Street

Los Angeles, CA 90007

Inquiry Number: 4552368.4

March 01, 2016

# EDR Historical Topo Map Report

## with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Historical Topo Map Report

03/01/16

| **Site Name:** | **Client Name:** |
|---|---|
| Canfield | Rincon |
| 505 & 511 West 31st Street | 180 North Ashwood Avenue |
| Los Angeles, CA 90007 | Ventura, CA 93003-0000 |
| EDR Inquiry # 4552368.4 | Contact: Prajwal |

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Rincon were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

| ***Search Results:*** | | ***Coordinates:*** | |
|---|---|---|---|
| **Site Name:** | Canfield | **Latitude:** | 34.023991 34° 1' 26" North |
| **Address:** | 505 & 511 West 31st Street | **Longitude:** | -118.27749 -118° 16' 39" West |
| **City,State,Zip:** | Los Angeles, CA 90007 | **UTM Zone:** | Zone 11 North |
| **P.O.#** | 16-02377 | **UTM X Meters:** | 382056.06 |
| **Project:** | Canfield Devp | **UTM Y Meters:** | 3765551.85 |
| | | **Elevation:** | 185.89' above sea level |

**Maps Provided:**

| | |
|---|---|
| 2012 | 1902 |
| 1991 | 1900 |
| 1981 | 1898 |
| 1972 | 1896 |
| 1964, 1966 | 1894 |
| 1953 | |
| 1923, 1924, 1926, 1928 | |
| 1921 | |

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## *Topo Sheet Thumbnails*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2012 Source Sheets

Hollywood
2012
7.5-minute, 24000

Inglewood
2012
7.5-minute, 24000

### 1991 Source Sheets

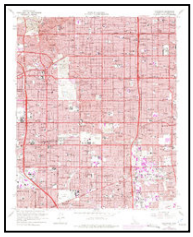
Hollywood
1991
7.5-minute, 24000
Photo Inspected 1991
Photo Revised 1981

### 1981 Source Sheets

Inglewood
1981
7.5-minute, 24000
Photo Revised 1981
Aerial Photo Revised 1978

Hollywood
1981
7.5-minute, 24000
Photo Revised 1981
Aerial Photo Revised 1978

### 1972 Source Sheets



Inglewood
1972
7.5-minute, 24000
Photo Revised 1972
Aerial Photo Revised 1972

Hollywood
1972
7.5-minute, 24000
Photo Revised 1972
Aerial Photo Revised 1972

## *Topo Sheet Thumbnails*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1964, 1966 Source Sheets

Inglewood
1964
7.5-minute, 24000
Aerial Photo Revised 1963
Edited 1964

Hollywood
1966
7.5-minute, 24000
Aerial Photo Revised 1964

### 1953 Source Sheets

Hollywood
1953
7.5-minute, 24000
Aerial Photo Revised 1952

### 1923, 1924, 1926, 1928 Source Sheets

Watts
1923
7.5-minute, 24000

Watts
1924
7.5-minute, 24000

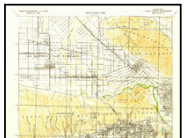
Inglewood
1924
7.5-minute, 24000

Hollywood
1924
7.5-minute, 24000

Hollywood
1926
7.5-minute, 24000

Los Angeles
1928
7.5-minute, 24000

### 1921 Source Sheets



## *Topo Sheet Thumbnails*

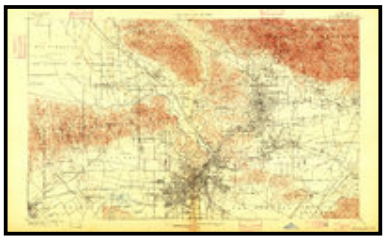
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1902 Source Sheets

Santa Monica
1902
15-minute, 62500

### 1900 Source Sheets

Pasadena
1900
15-minute, 62500



Los Angeles
1900
15-minute, 62500

### 1898 Source Sheets

Santa Monica
1898
15-minute, 62500

### 1896 Source Sheets

Redondo
1896
15-minute, 62500

Santa Monica
1896
15-minute, 62500

Pasadena
1896
15-minute, 62500

## *Topo Sheet Thumbnails*

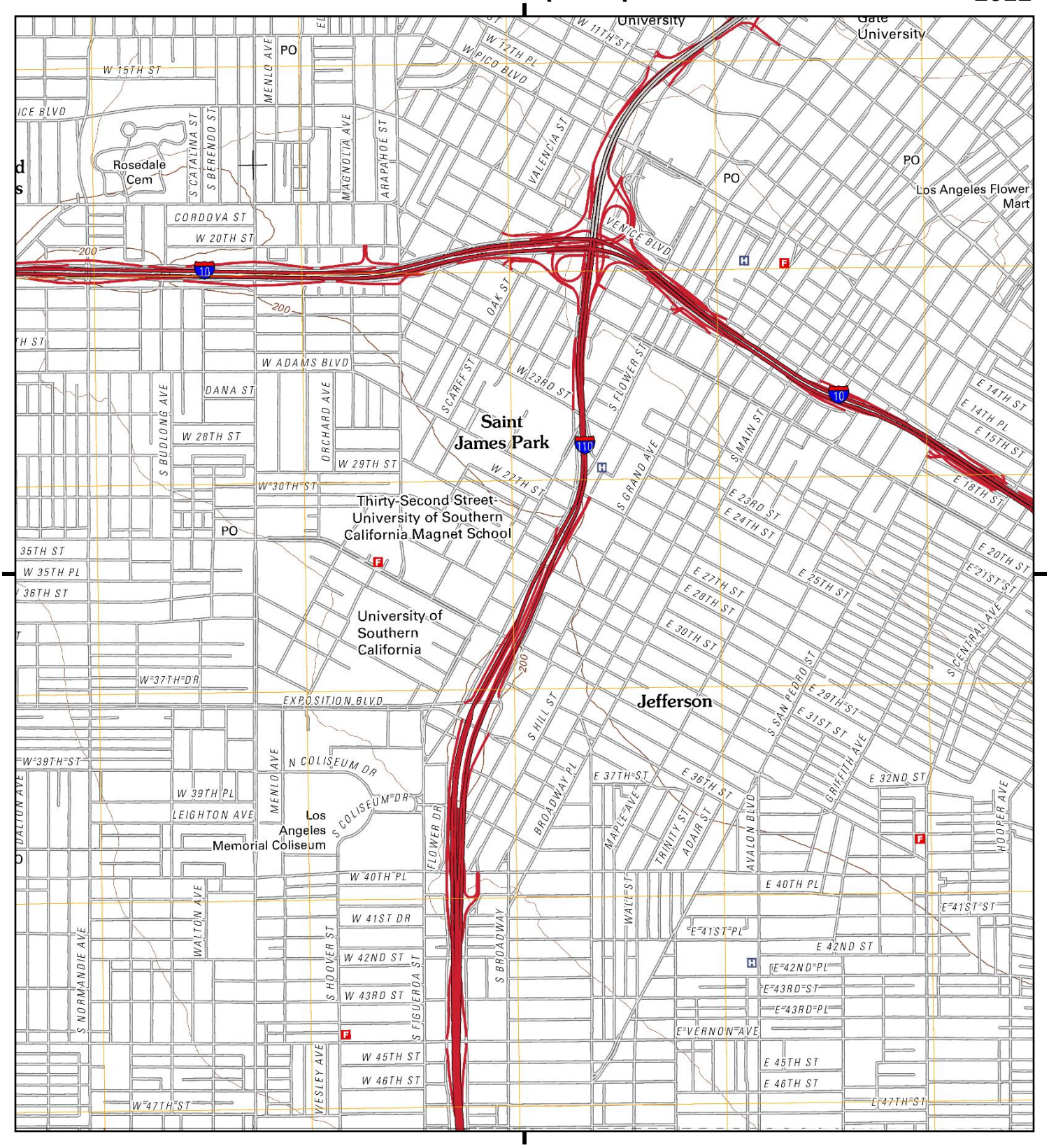
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1894 Source Sheets

Los Angeles
1894
15-minute, 62500

# Historical Topo Map

2012




This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Hollywood, 2012, 7.5-minute

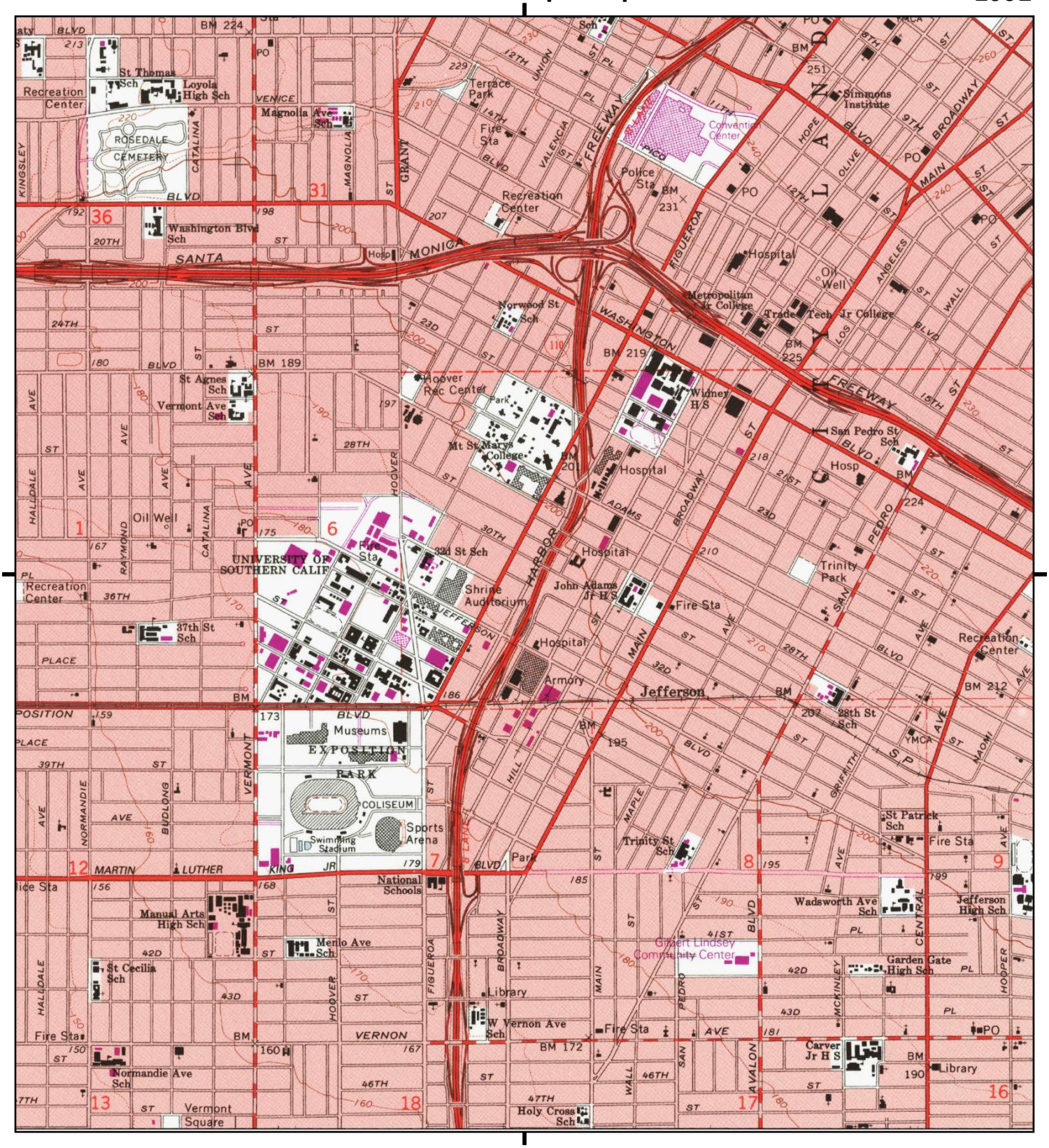
S, Inglewood, 2012, 7.5-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

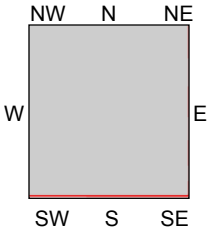
# Historical Topo Map

1991




This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5



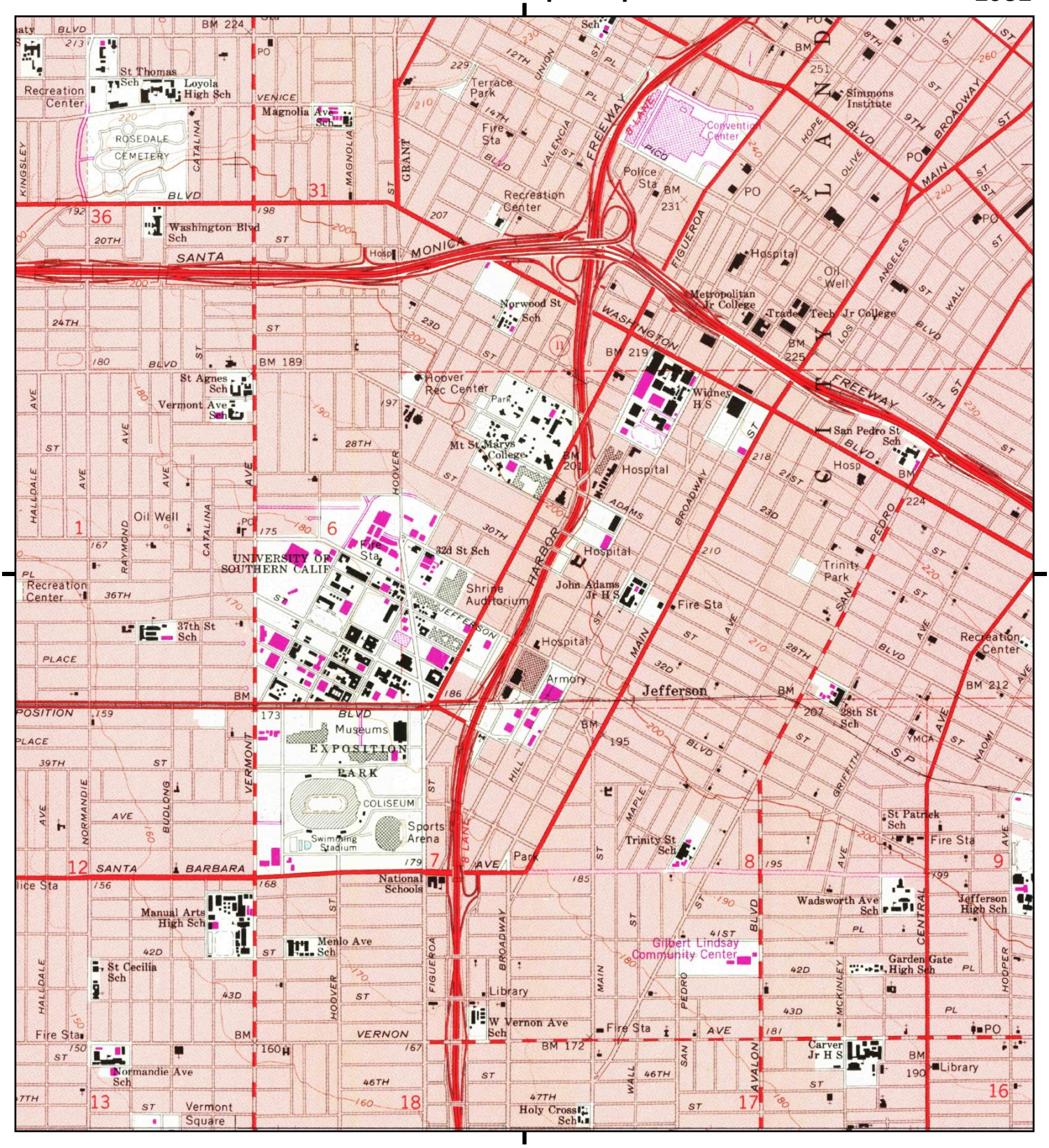

TP, Hollywood, 1991, 7.5-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

# Historical Topo Map

1981




This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Hollywood, 1981, 7.5-minute

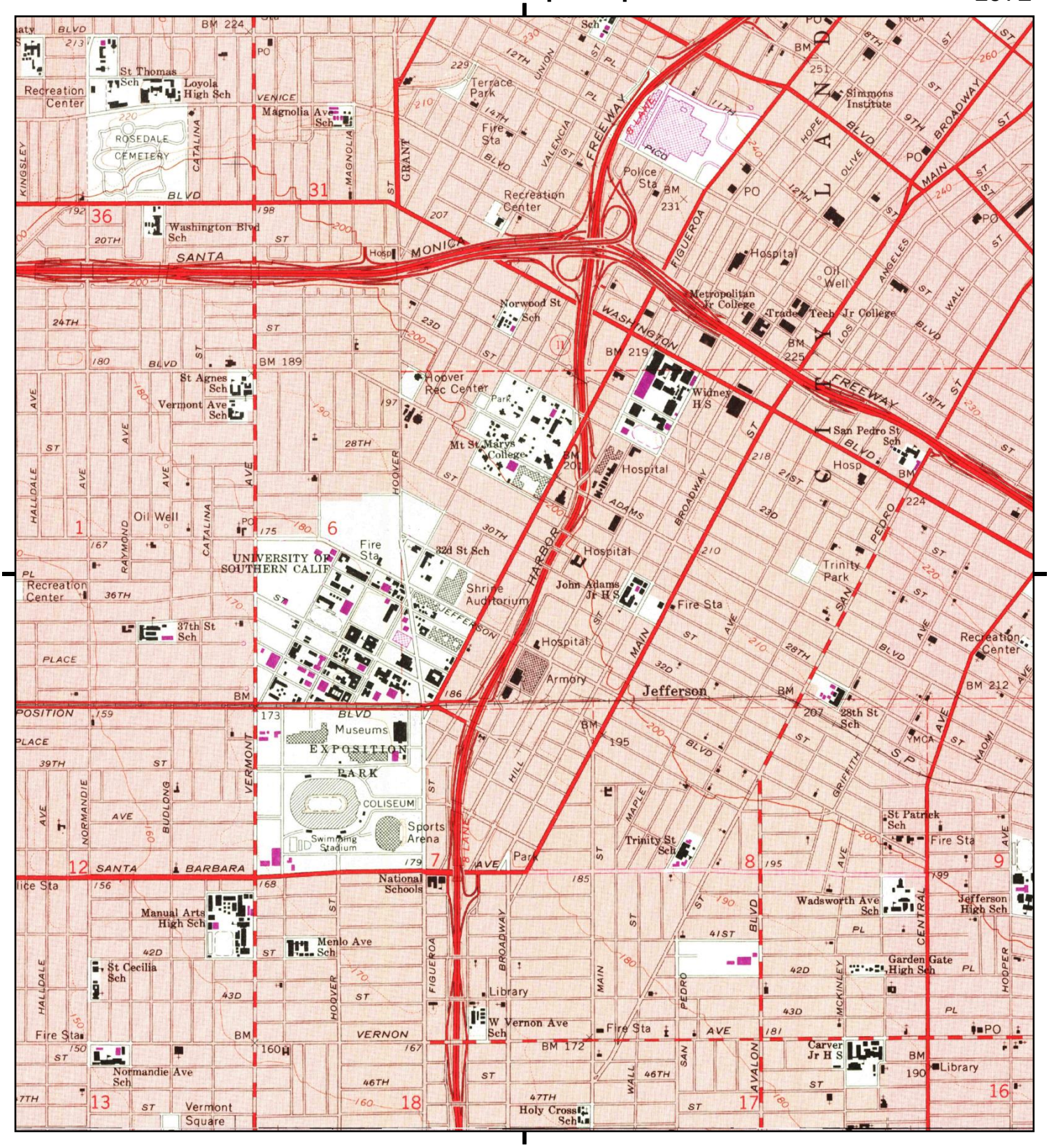
S, Inglewood, 1981, 7.5-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

# Historical Topo Map

1972




This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Hollywood, 1972, 7.5-minute

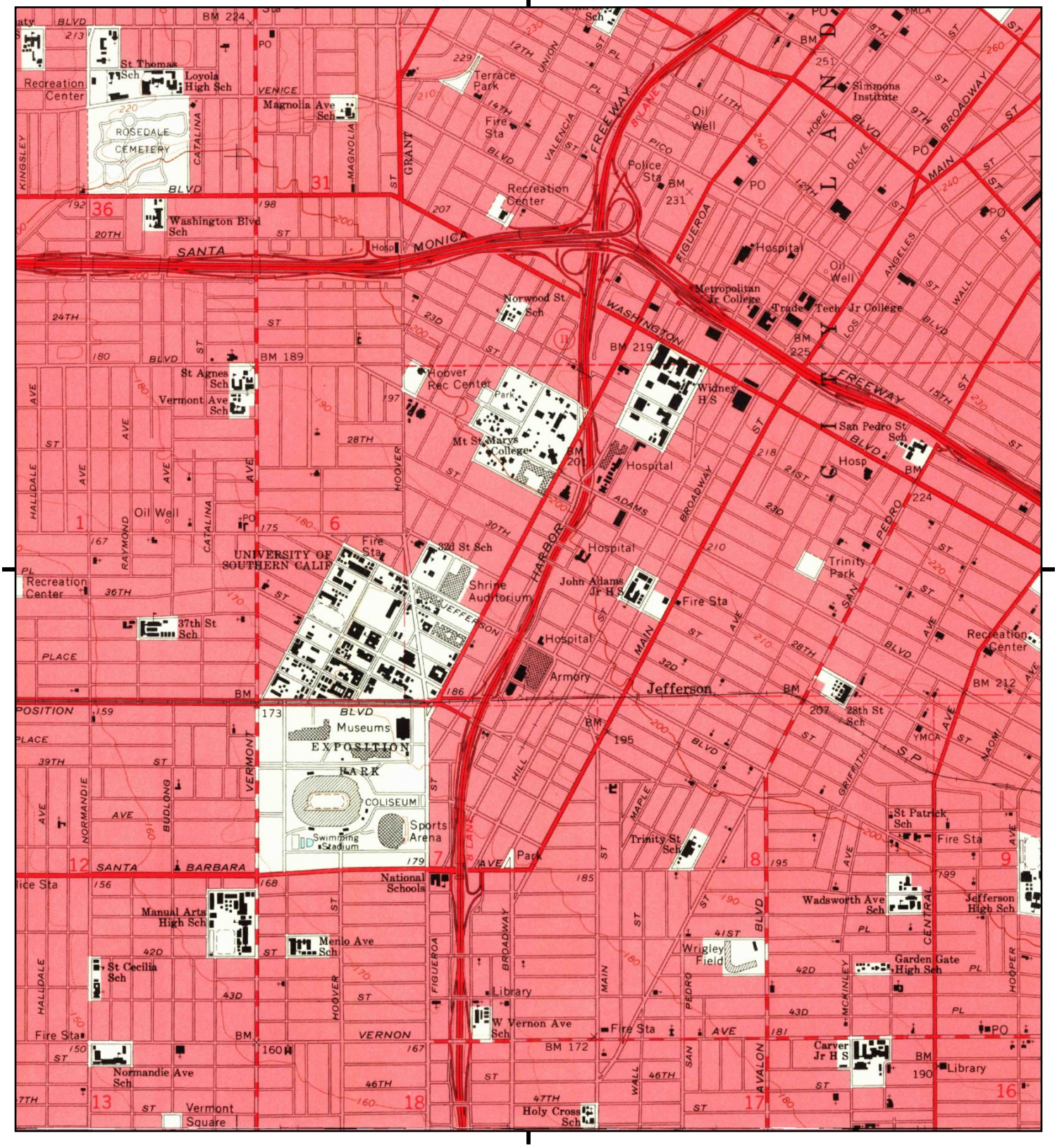
S, Inglewood, 1972, 7.5-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

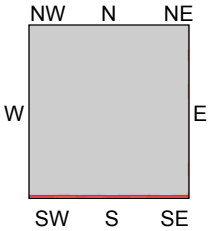
# Historical Topo Map

1964, 1966




This report includes information from the following map sheet(s).

| Miles | 0.25 | 0.5 | 1 | 1.5 |
|---|---|---|---|---|




TP, Hollywood, 1966, 7.5-minute

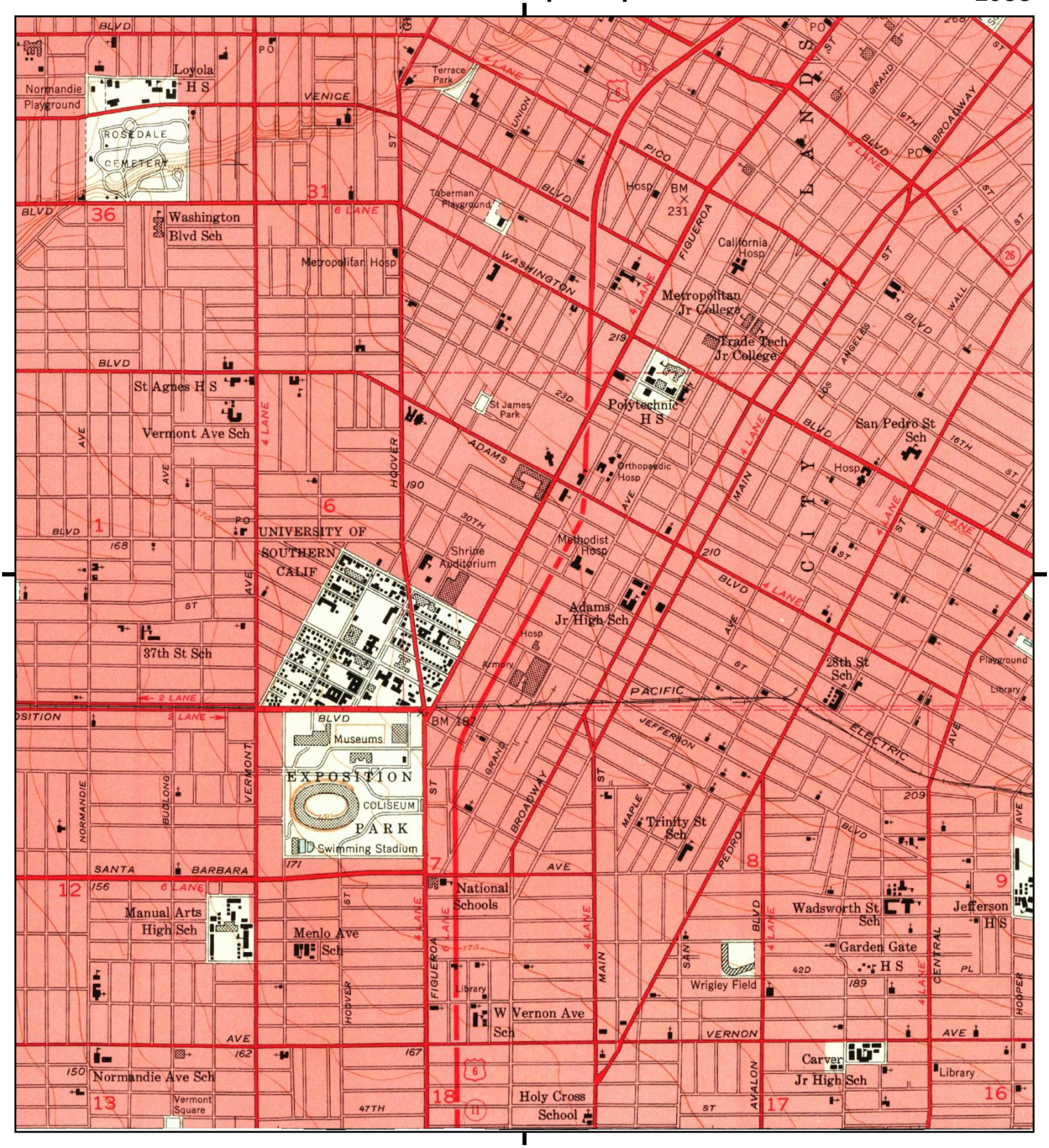
S, Inglewood, 1964, 7.5-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

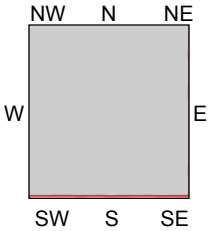
# Historical Topo Map

1953




This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5



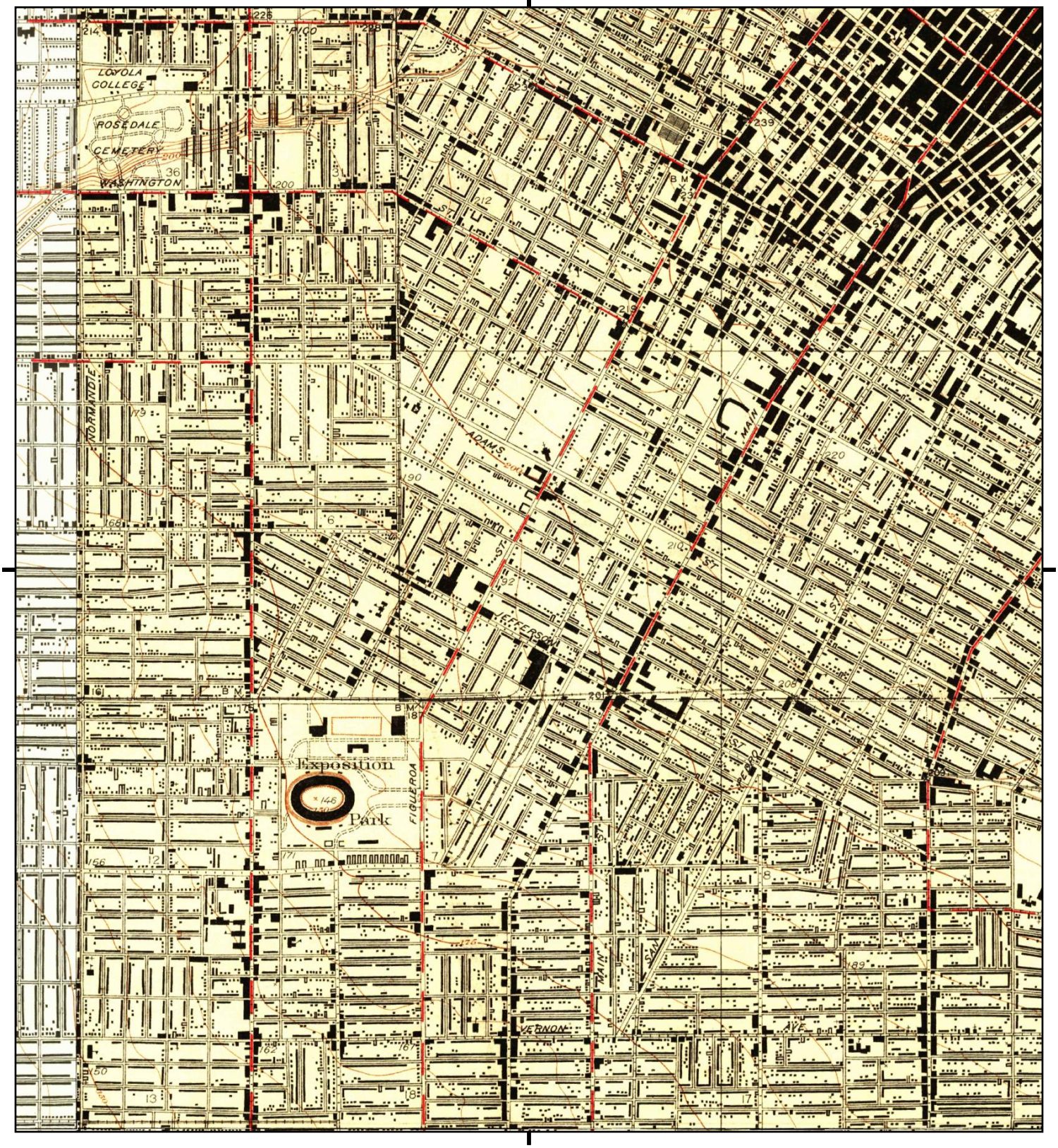

TP, Hollywood, 1953, 7.5-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

# Historical Topo Map

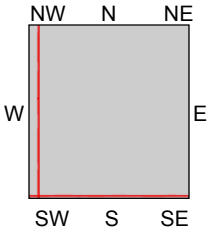
1923, 1924, 1926, 1928




This report includes information from the following map sheet(s).

NW, Hollywood, 1924, 7.5-minute
NW, Hollywood, 1926, 7.5-minute

Miles 0.25 0.5 1 1.5




TP, Los Angeles, 1928, 7.5-minute

S, Watts, 1923, 7.5-minute

S, Watts, 1924, 7.5-minute

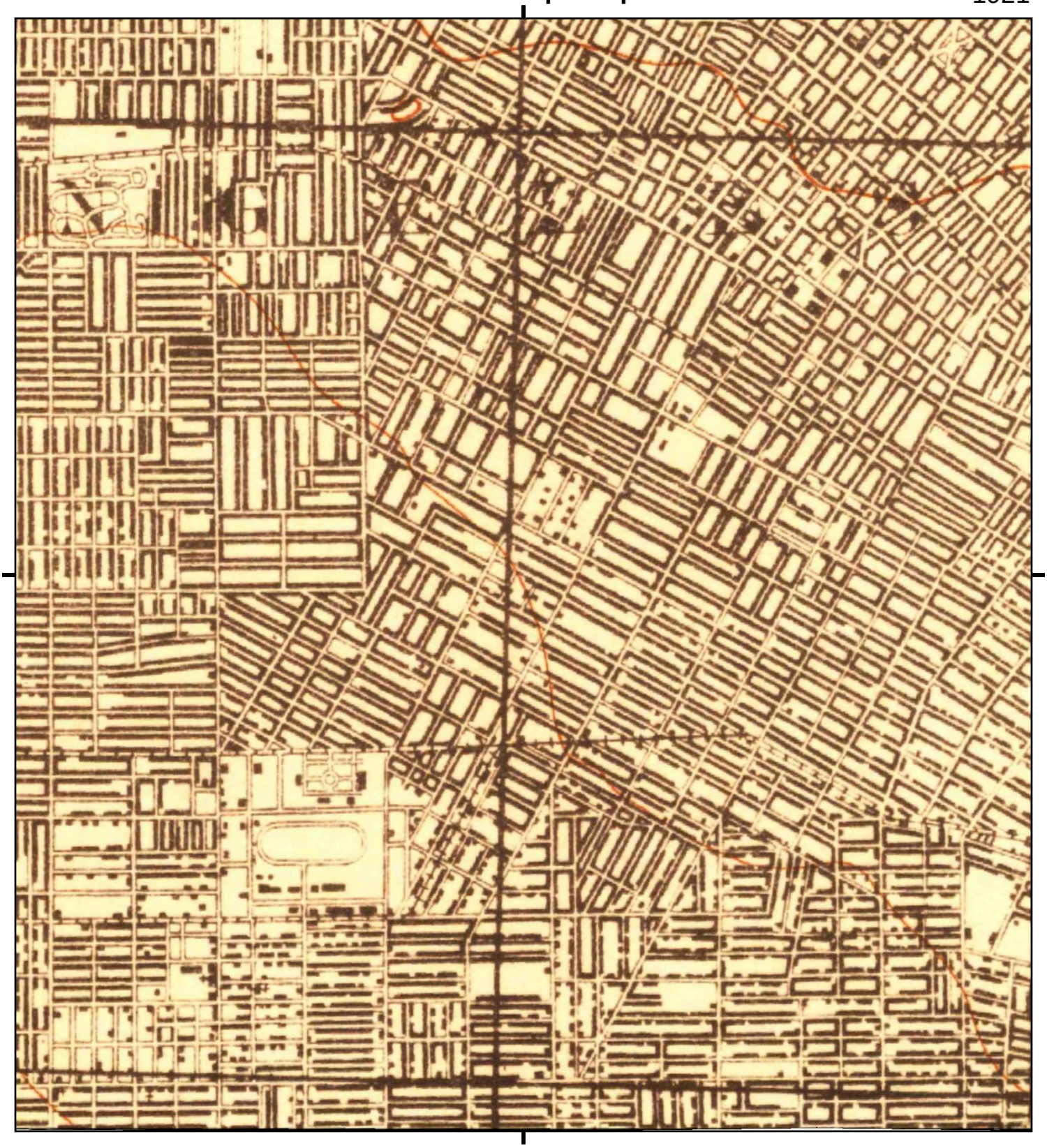
SW, Inglewood, 1924, 7.5-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

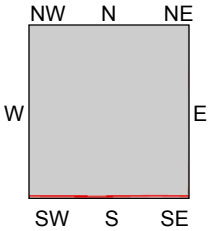
# Historical Topo Map

1921



This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5



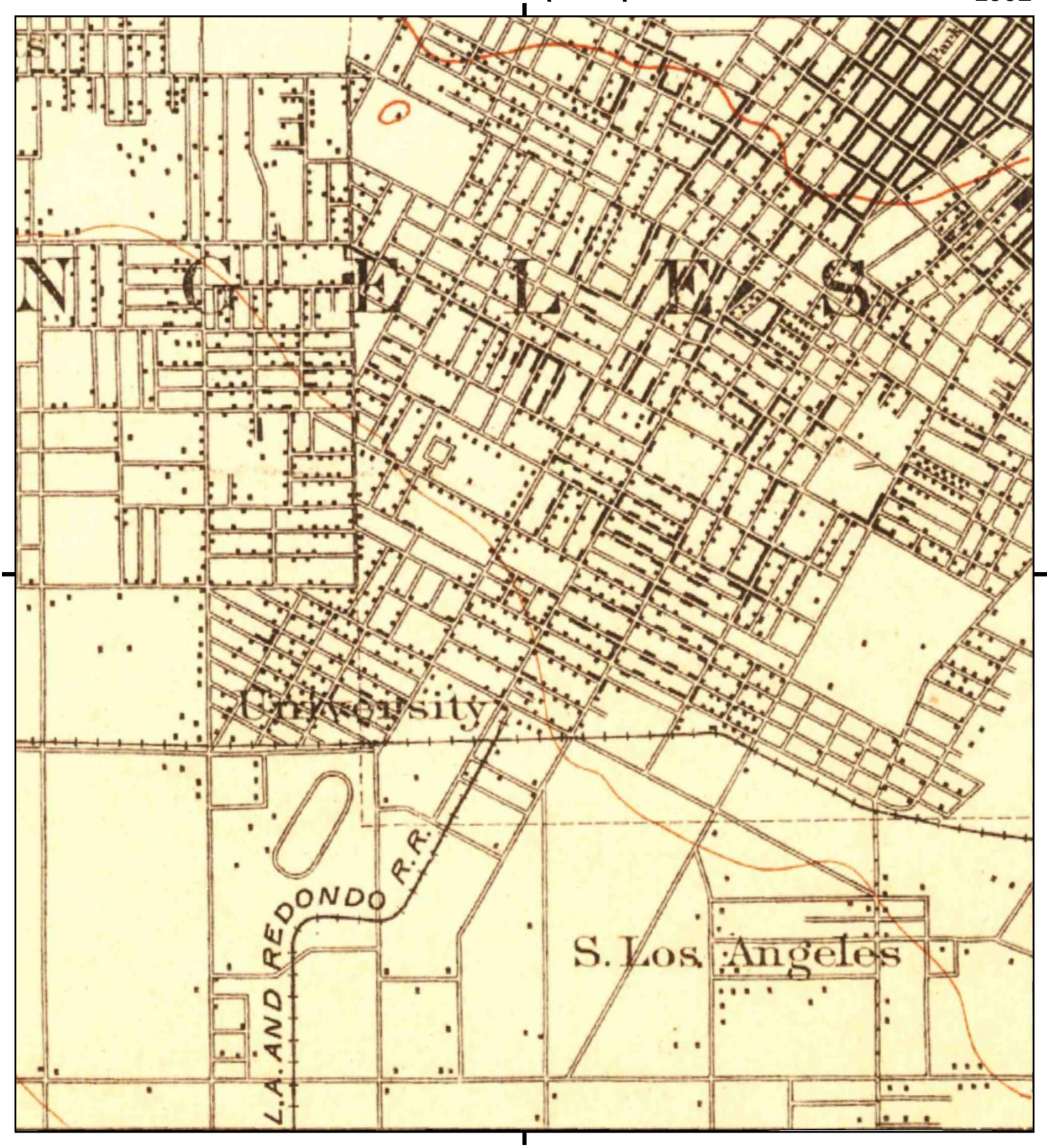

TP, Santa Monica, 1921, 15-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

# Historical Topo Map

1902




This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

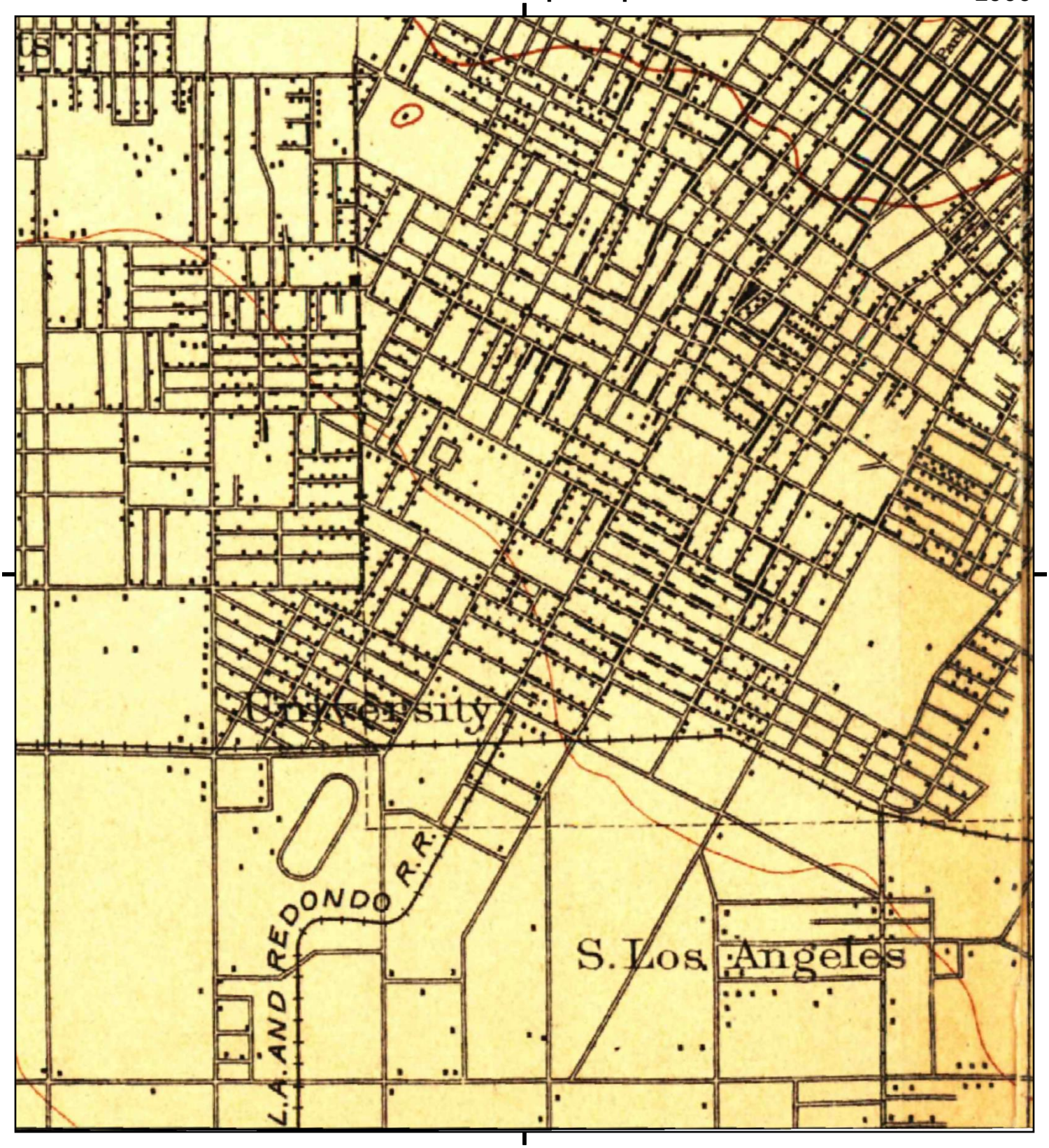
TP, Santa Monica, 1902, 15-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

# Historical Topo Map

1900




This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Los Angeles, 1900, 15-minute

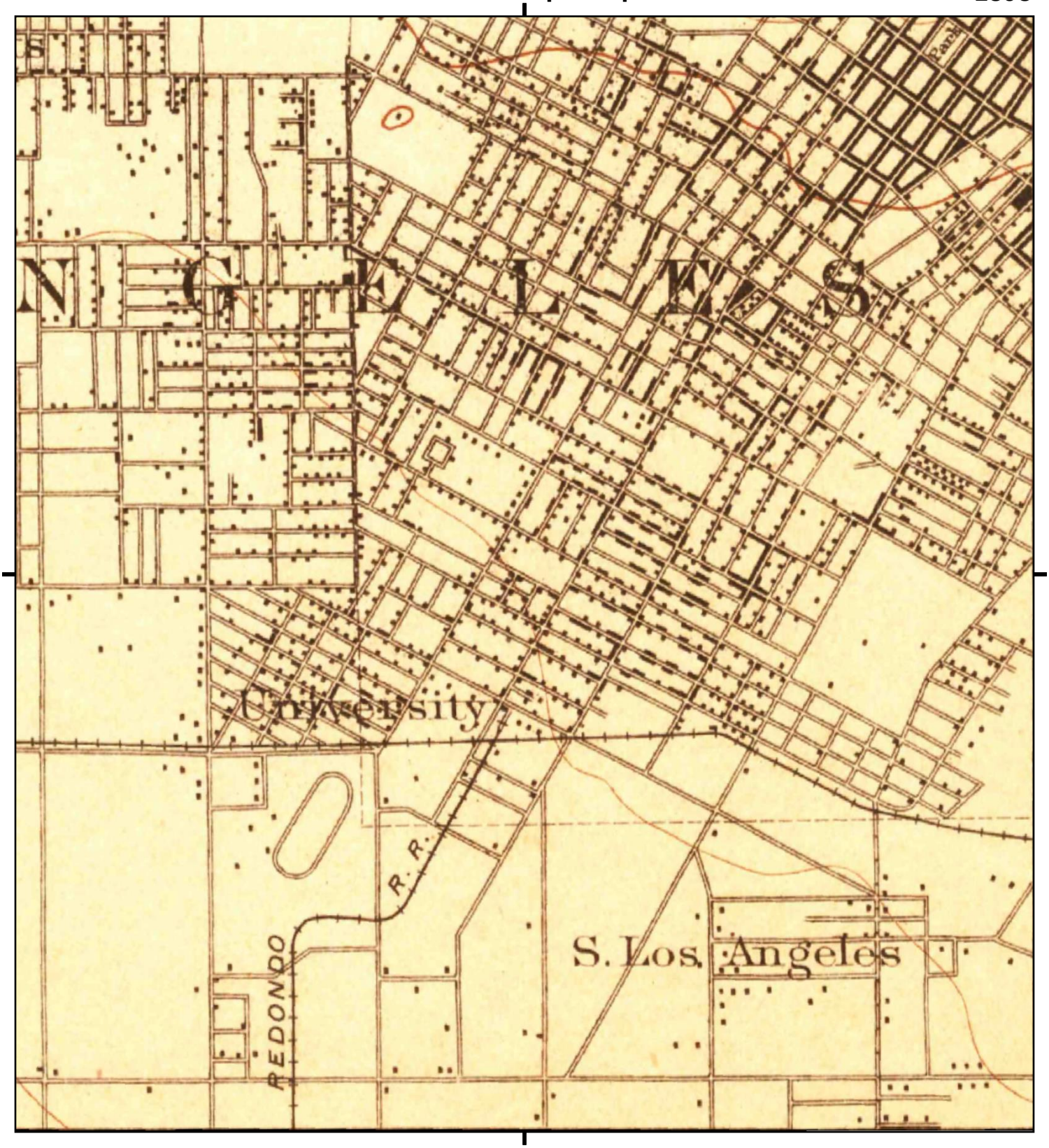
NE, Pasadena, 1900, 15-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

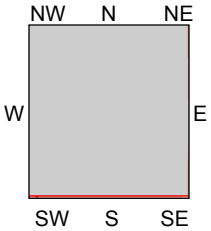
# Historical Topo Map

1898




This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5



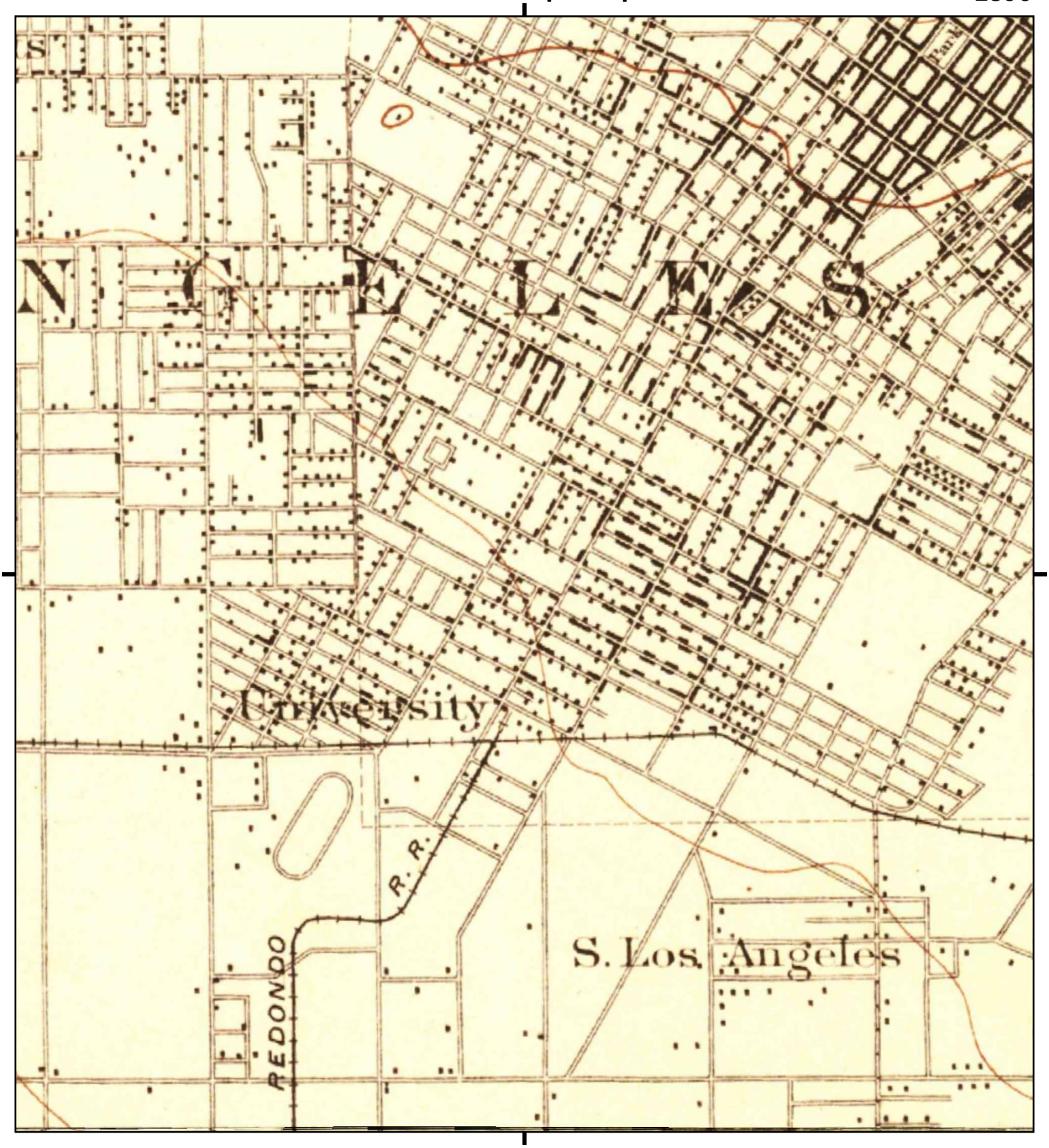

TP, Santa Monica, 1898, 15-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

# Historical Topo Map

1896




This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Monica, 1896, 15-minute

NE, Pasadena, 1896, 15-minute

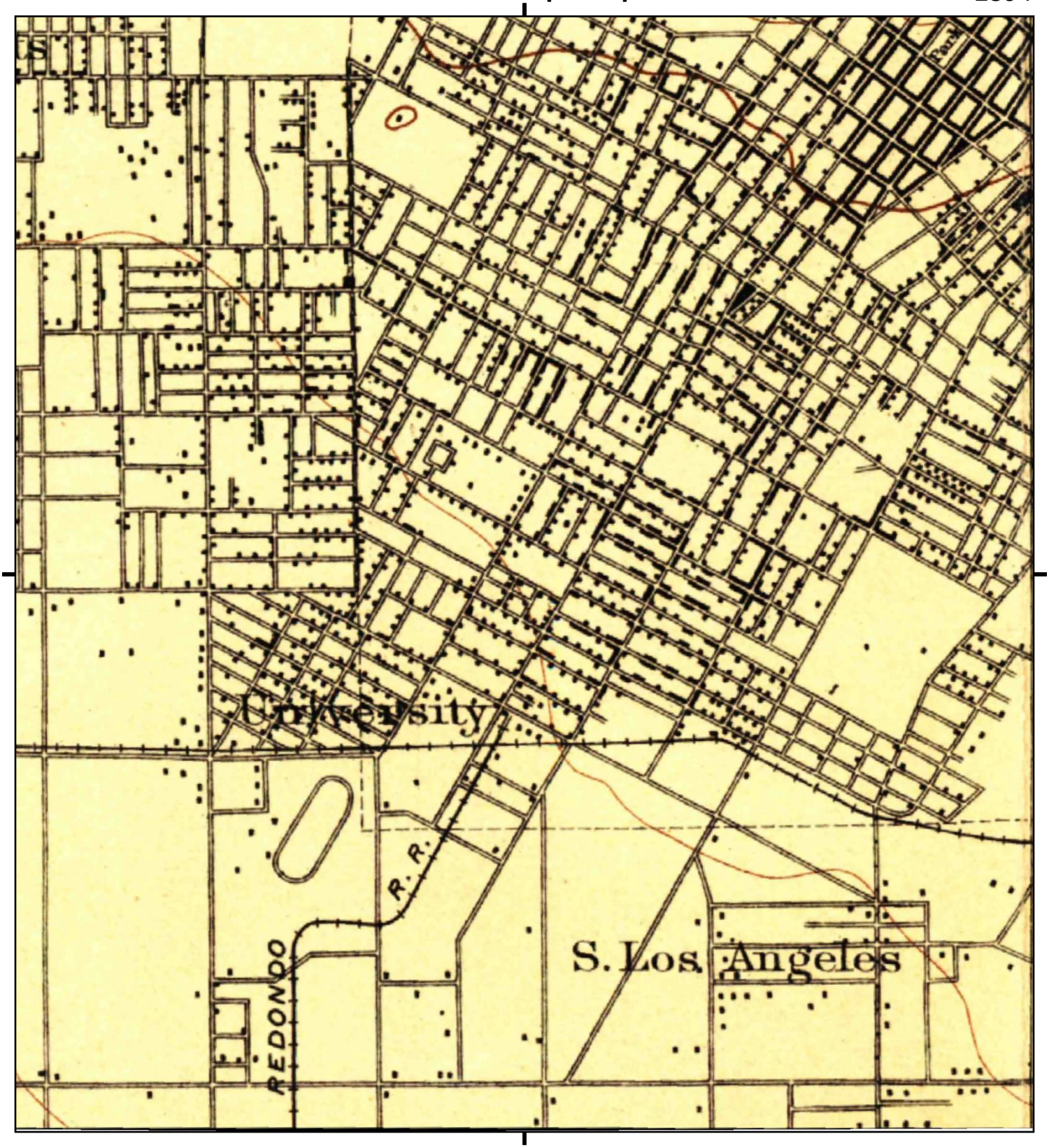
SW, Redondo, 1896, 15-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

# Historical Topo Map

1894




This report includes information from the following map sheet(s).

Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Los Angeles, 1894, 15-minute

SITE NAME: Canfield
ADDRESS: 505 & 511 West 31st Street
Los Angeles, CA 90007
CLIENT: Rincon

N

**Canfield**
505 & 511 West 31st Street
Los Angeles, CA 90007

Inquiry Number: 4552368.9
March 02, 2016

# The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Aerial Photo Decade Package

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***Thank you for your business.***
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with any questions or comments.


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## Date EDR Searched Historical Sources:

Aerial Photography March 02, 2016

## Target Property:

505 & 511 West 31st Street

Los Angeles, CA 90007

| ***Year*** | ***Scale*** | ***Details*** | ***Source*** |
|---|---|---|---|
| 1923 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1923 | USGS |
| 1928 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1928 | USGS |
| 1938 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1938 | USGS |
| 1948 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1948 | USGS |
| 1952 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1952 | USGS |
| 1964 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1964 | USGS |
| 1970 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1970 | EDR Proprietary Brewster Pacific |
| 1977 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1977 | EDR Proprietary Brewster Pacific |
| 1985 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1985 | USGS |
| 1989 | Aerial Photograph. Scale: 1"=500' | Flight Year: 1989 | USGS |
| 1994 | Aerial Photograph. Scale: 1"=500' | /DOQQ - acquisition dates: 1994 | USGS/DOQQ |
| 2002 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2002 | USGS |
| 2005 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2005 | USDA/NAIP |
| 2009 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2009 | USDA/NAIP |
| 2010 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2010 | USDA/NAIP |
| 2012 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2012 | USDA/NAIP |

**INQUIRY #:** 4552368.9

**YEAR:** 1923

= 500'

N

EDR

INQUIRY #: 4552368.9
YEAR: 1928
= 500'
N
EDR

INQUIRY #: 4552368.9
YEAR: 1938
= 500'
N
EDR

INQUIRY #: 4552368.9
YEAR: 1948
= 500'
N
EDR

INQUIRY #: 4552368.9
YEAR: 1952
= 500'
N
EDR

INQUIRY #: 4552368.9
YEAR: 1964
= 500'
N
EDR

**INQUIRY #:** 4552368.9

**YEAR:** 1970

= 500'

N

EDR

UAg 33
152,66

INQUIRY #: 4552368.9
YEAR: 1977
= 500'
N
EDR

INQUIRY #: 4552368.9
YEAR: 1985
= 500'
N
EDR

INQUIRY #: 4552368.9
YEAR: 1989
= 500'
N
EDR

INQUIRY #: 4552368.9
YEAR: 1994
= 500'
N
EDR

INQUIRY #: 4552368.9
YEAR: 2002
= 500'
N
EDR

INQUIRY #: 4552368.9
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 4552368.9
YEAR: 2009
= 500'
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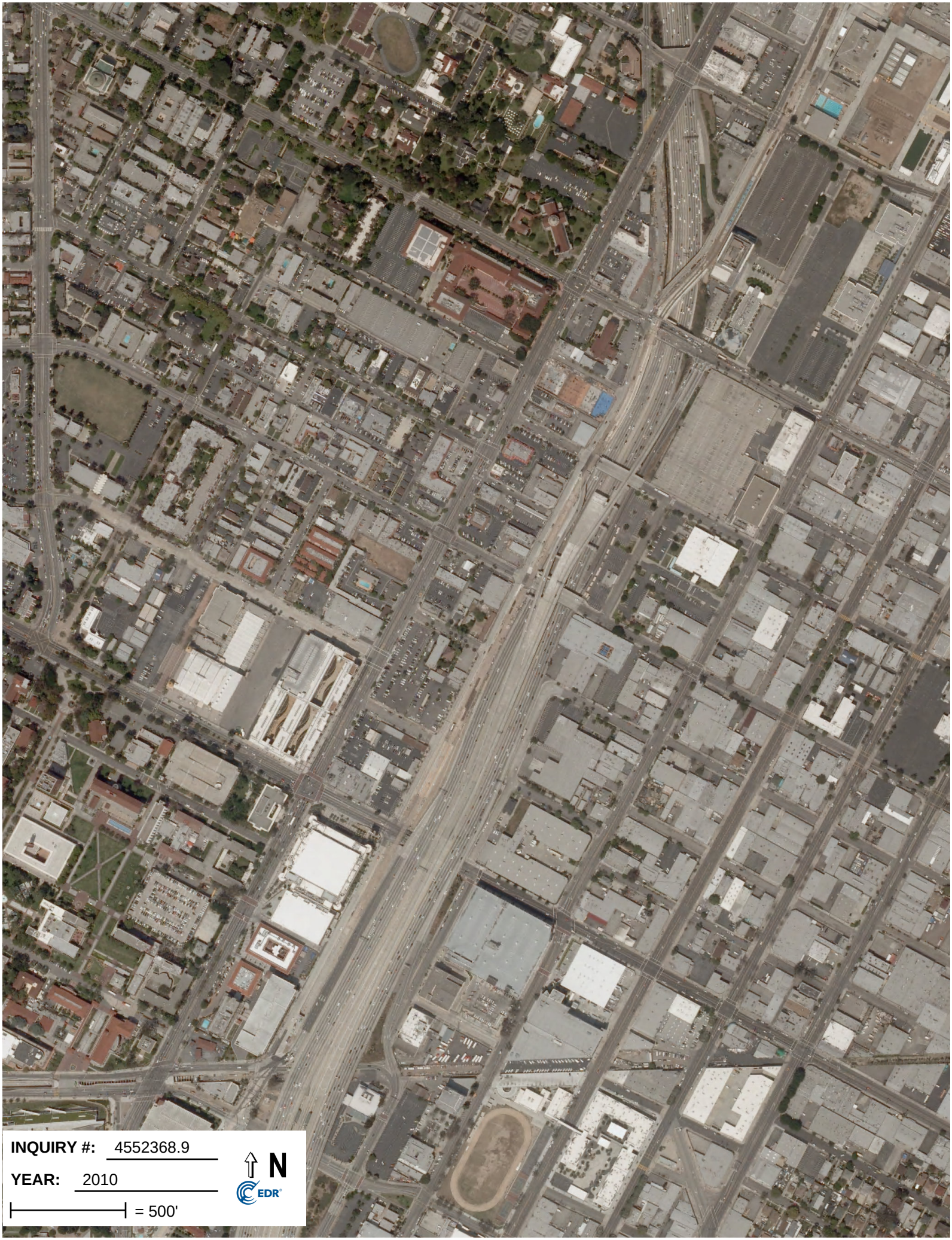
EDR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YEAR: 2012
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EDR

**Canfield**
505 & 511 West 31st Street
Los Angeles, CA 90007

Inquiry Number: 4552368.3
March 01, 2016

# Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

# Certified Sanborn® Map Report

3/01/16

| **Site Name:** | **Client Name:** |
|---|---|
| Canfield | Rincon |
| 505 & 511 West 31st Street | 180 North Ashwood Avenue |
| Los Angeles, CA 90007 | Ventura, CA 93003-0000 |
| EDR Inquiry # 4552368.3 | Contact: Prajwal |

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## *Certified Sanborn Results:*

| | |
|---|---|
| **Site Name:** | Canfield |
| **Address:** | 505 & 511 West 31st Street |
| **City, State, Zip:** | Los Angeles, CA 90007 |
| **Cross Street:** | |
| **P.O. #** | 16-02377 |
| **Project:** | Canfield Devp |
| **Certification #** | 8296-4B24-97F2 |

**Maps Provided:**

| | |
|---|---|
| 1970 | 1957 |
| 1968 | 1954 |
| 1966 | 1950 |
| 1960 | 1922 |
| 1959 | 1907 |
| 1958 | 1894 |

Sanborn® Library search results
Certification # 8296-4B24-97F2

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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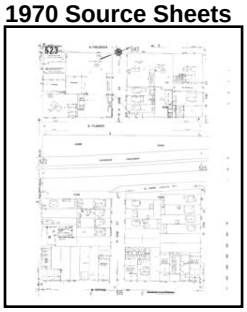
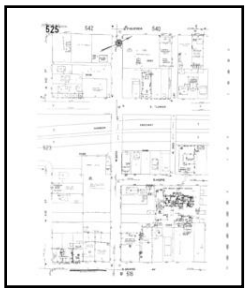
## *Sanborn Sheet Thumbnails*

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

### 1970 Source Sheets



Volume 5, Sheet 523



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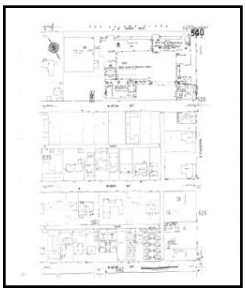

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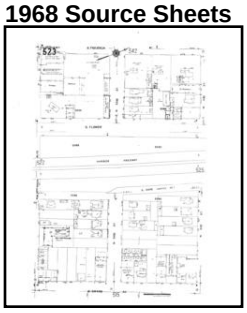

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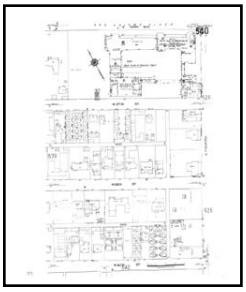

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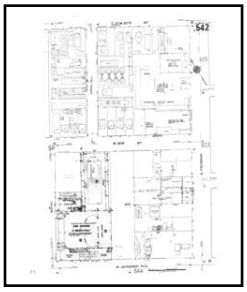

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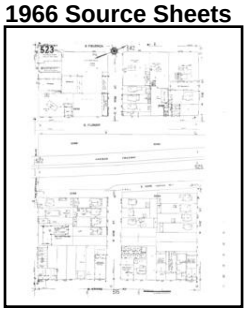

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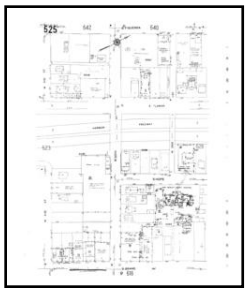

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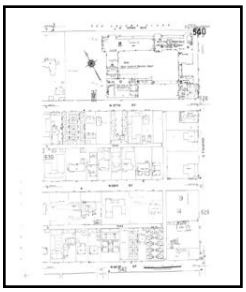

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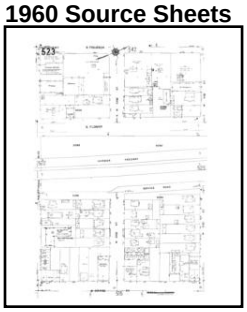

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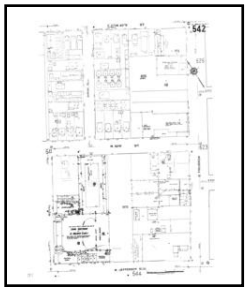

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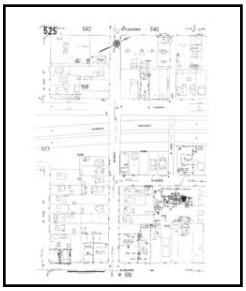

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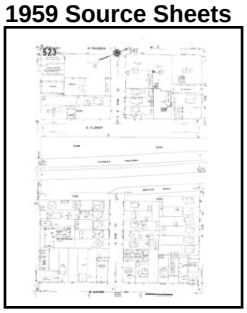

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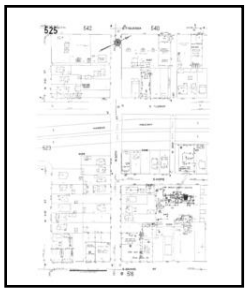

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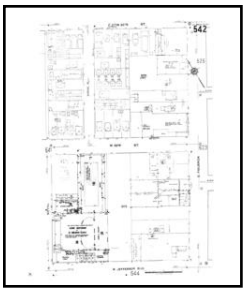

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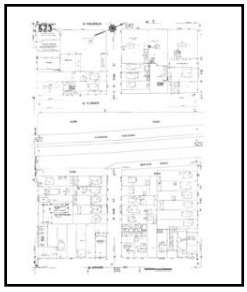

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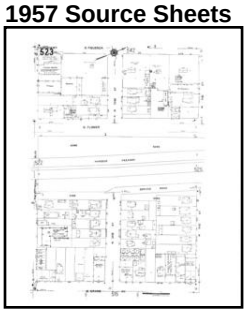

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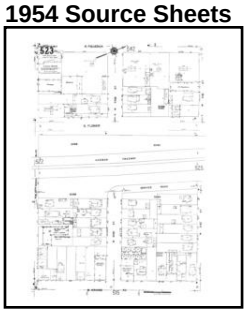

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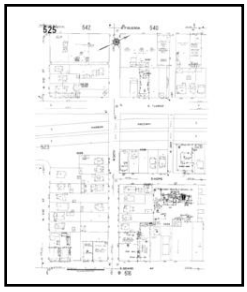

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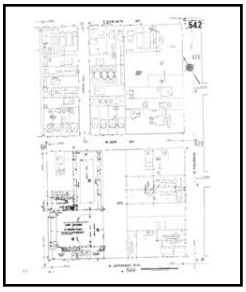

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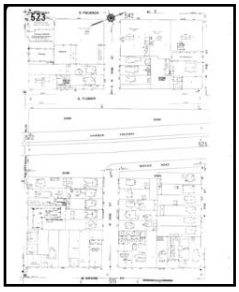

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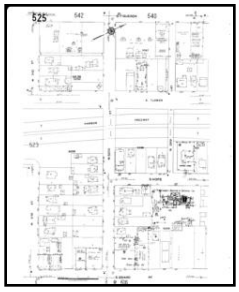

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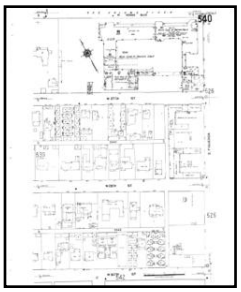

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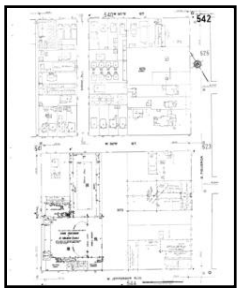

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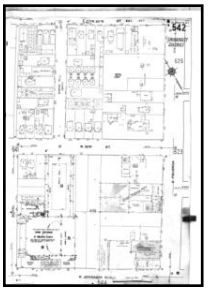

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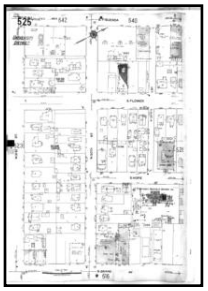

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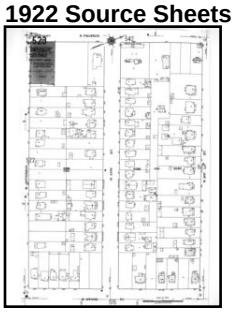

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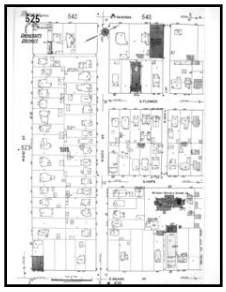

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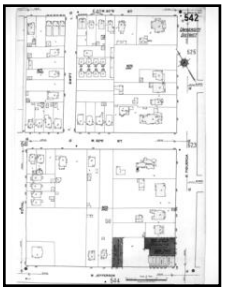

Volume 5, Sheet 542

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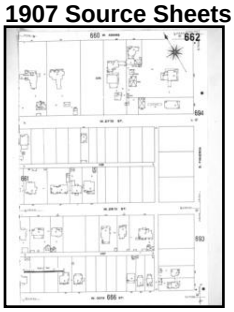

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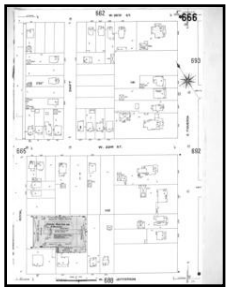

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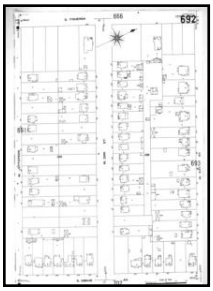

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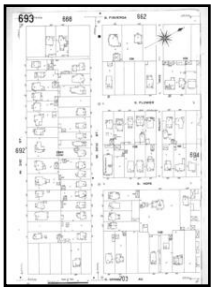

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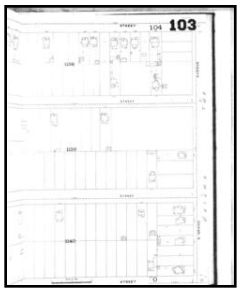
## 1894 Source Sheets

Volume 3, Sheet 103




Volume 3, Sheet 103

Volume 3, Sheet 104

Volume 3, Sheet 104

# 1970 Certified Sanborn Map

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| Site Name: | Canfield |
| Address: | 505 & 511 West 31st Street |
| City, ST, ZIP: | Los Angeles CA 90007 |
| Client: | Rincon |
| EDR Inquiry: | 4552368.3 |
| Order Date: | 3/1/2016 9:38:03 PM |
| Certification # | 8296-4B24-97F2 |
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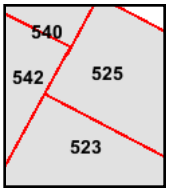


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Volume 5, Sheet 540
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0 Feet 150 300 600

N

# 1968 Certified Sanborn Map

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| Client: | Rincon |
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| Certification # | 8296-4B24-97F2 |
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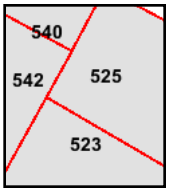


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Volume 5, Sheet 525
Volume 5, Sheet 540
Volume 5, Sheet 542

0 Feet 150 300 600

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# 1966 Certified Sanborn Map

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| City, ST, ZIP: | Los Angeles CA 90007 |
| Client: | Rincon |
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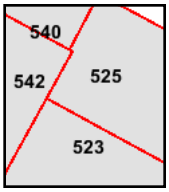


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Volume 5, Sheet 525
Volume 5, Sheet 540
Volume 5, Sheet 542

0 Feet 150 300 600

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# 1960 Certified Sanborn Map

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| City, ST, ZIP: | Los Angeles CA 90007 |
| Client: | Rincon |
| EDR Inquiry: | 4552368.3 |
| Order Date: | 3/1/2016 9:38:03 PM |
| Certification # | 8296-4B24-97F2 |
| Copyright: | 1960 |

This Certified Sanborn Map combines the following sheets.
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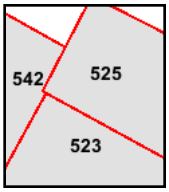


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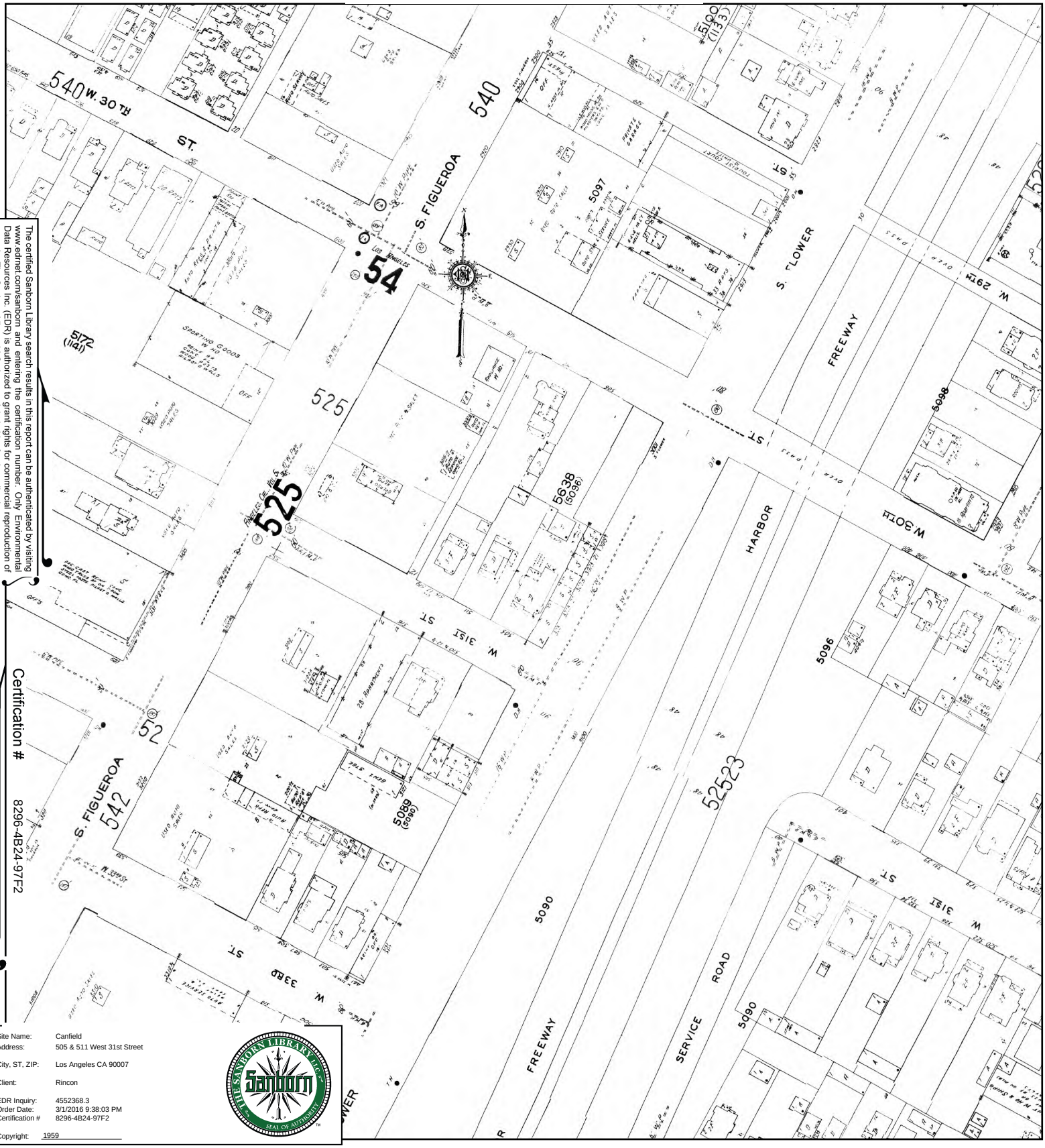
0 Feet 150 300 600

N

# 1959 Certified Sanborn Map

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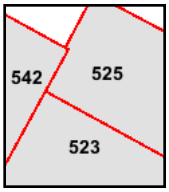
Certification # 8296-4B24-97F2

| | |
|---|---|
| Site Name: | Canfield |
| Address: | 505 & 511 West 31st Street |
| City, ST, ZIP: | Los Angeles CA 90007 |
| Client: | Rincon |
| EDR Inquiry: | 4552368.3 |
| Order Date: | 3/1/2016 9:38:03 PM |
| Certification # | 8296-4B24-97F2 |

Copyright: 1959

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

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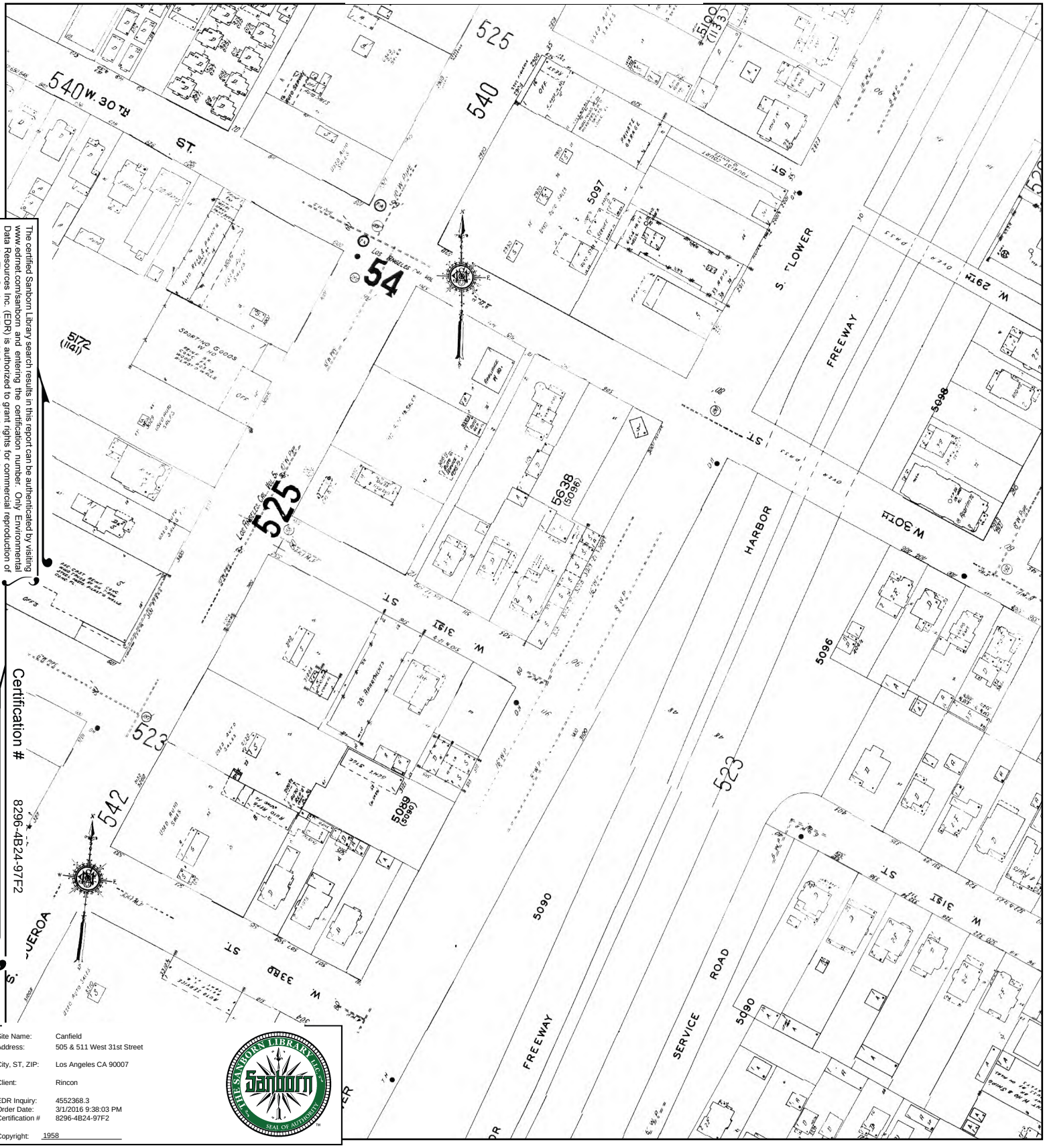
N

# 1958 Certified Sanborn Map

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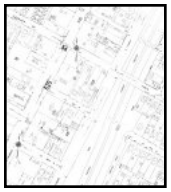
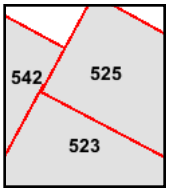
Certification # 8296-4B24-97F2

| | |
|---|---|
| Site Name: | Canfield |
| Address: | 505 & 511 West 31st Street |
| City, ST, ZIP: | Los Angeles CA 90007 |
| Client: | Rincon |
| EDR Inquiry: | 4552368.3 |
| Order Date: | 3/1/2016 9:38:03 PM |
| Certification # | 8296-4B24-97F2 |
| Copyright: | 1958 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



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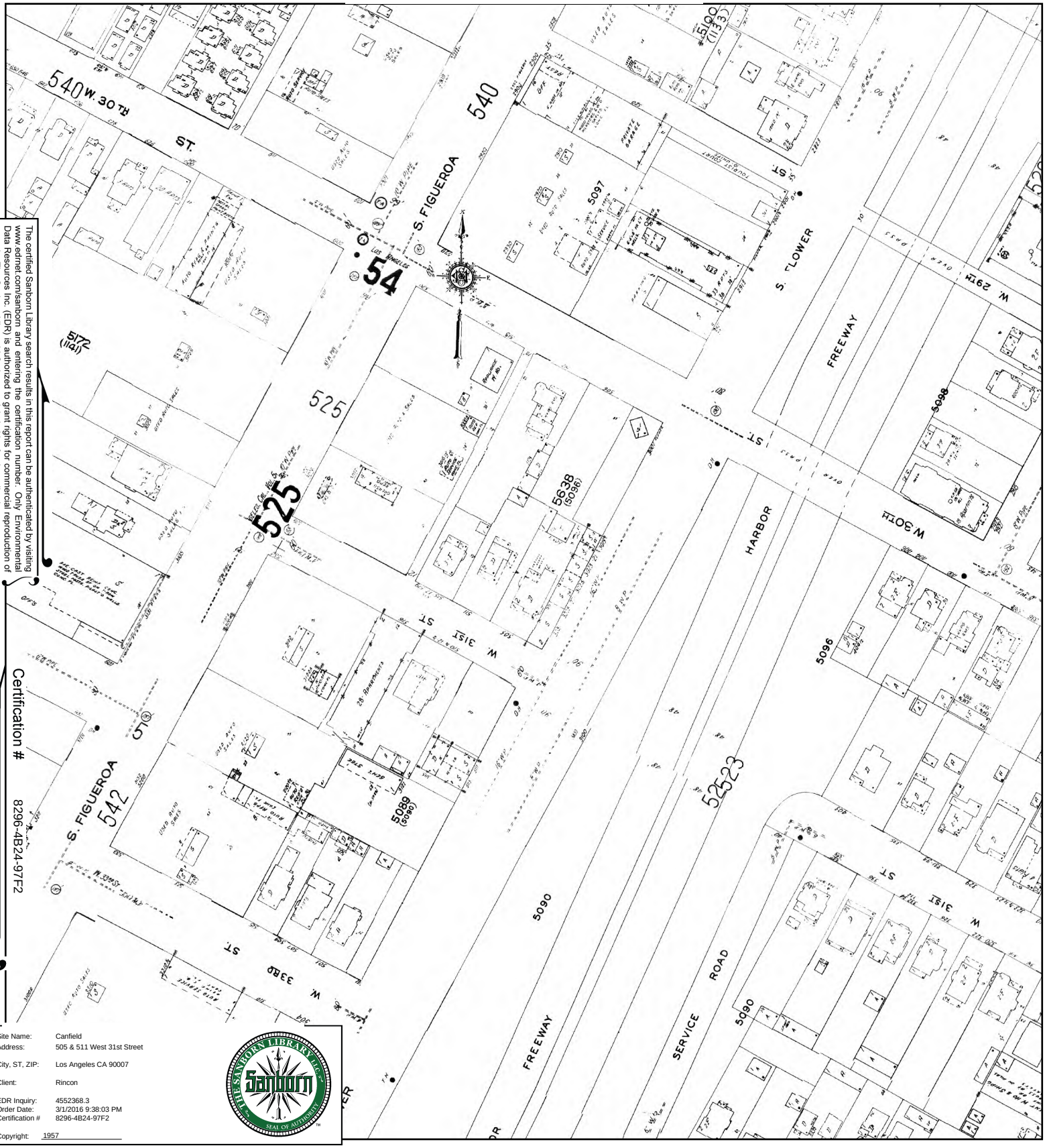
0 Feet 150 300 600

N

# 1957 Certified Sanborn Map

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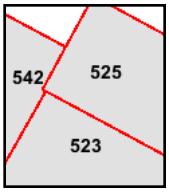
Certification # 8296-4B24-97F2

| | |
|---|---|
| Site Name: | Canfield |
| Address: | 505 & 511 West 31st Street |
| City, ST, ZIP: | Los Angeles CA 90007 |
| Client: | Rincon |
| EDR Inquiry: | 4552368.3 |
| Order Date: | 3/1/2016 9:38:03 PM |
| Certification # | 8296-4B24-97F2 |
| Copyright: | 1957 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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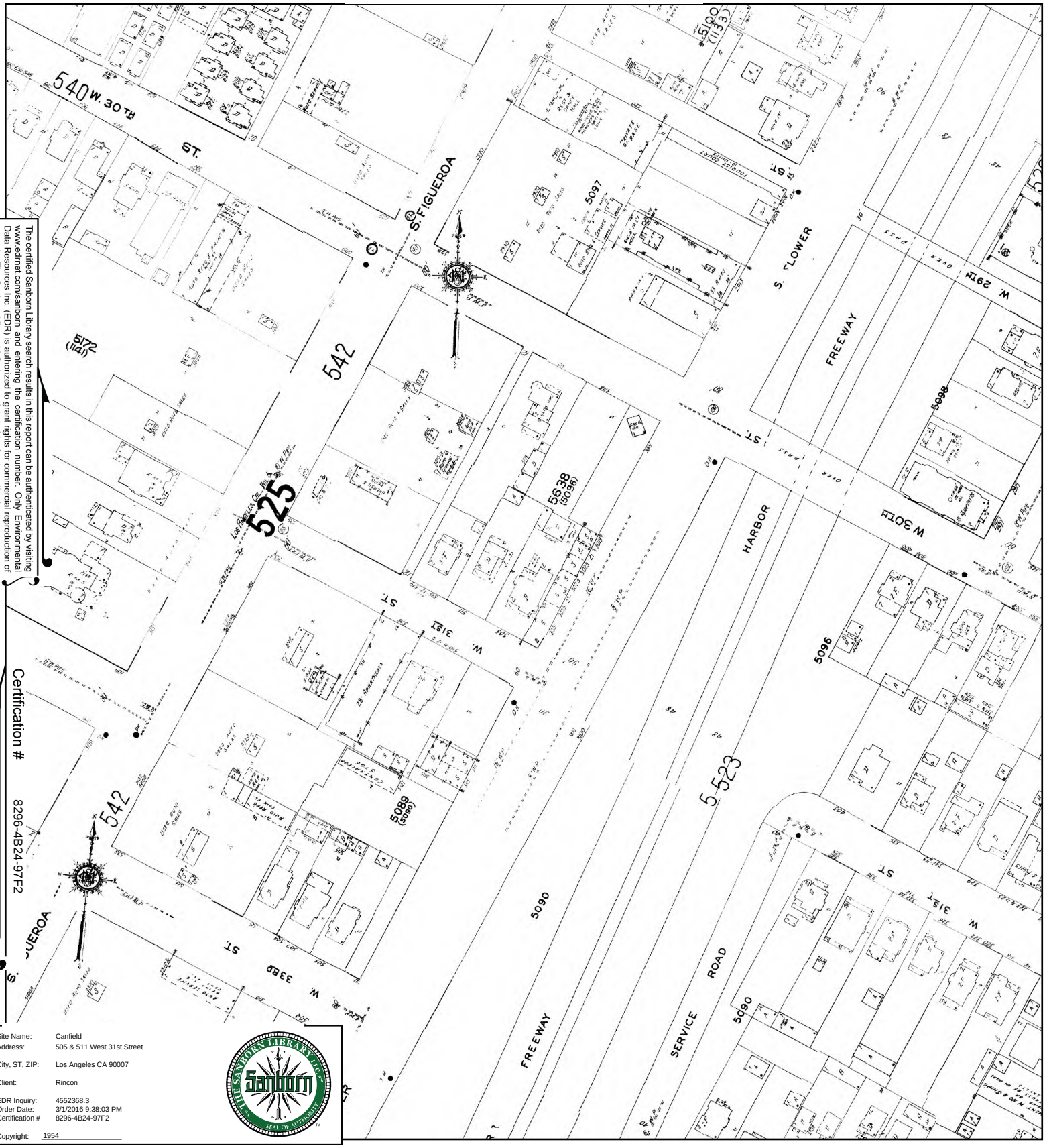
0 Feet 150 300 600

N

# 1954 Certified Sanborn Map

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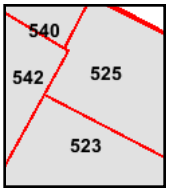
Certification # 8296-4B24-97F2

| | |
|---|---|
| Site Name: | Canfield |
| Address: | 505 & 511 West 31st Street |
| City, ST, ZIP: | Los Angeles CA 90007 |
| Client: | Rincon |
| EDR Inquiry: | 4552368.3 |
| Order Date: | 3/1/2016 9:38:03 PM |
| Certification # | 8296-4B24-97F2 |
| Copyright: | 1954 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

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Volume 5, Sheet 542
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Volume 5, Sheet 525
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N

# 1950 Certified Sanborn Map

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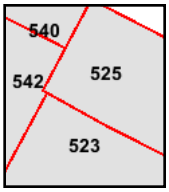
Certification # 8296-4B24-97F2

| | |
|---|---|
| Site Name: | Canfield |
| Address: | 505 & 511 West 31st Street |
| City, ST, ZIP: | Los Angeles CA 90007 |
| Client: | Rincon |
| EDR Inquiry: | 4552368.3 |
| Order Date: | 3/1/2016 9:38:03 PM |
| Certification # | 8296-4B24-97F2 |
| Copyright: | 1950 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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Volume 5, Sheet 542
Volume 5, Sheet 525

0 Feet 150 300 600

N

# 1922 Certified Sanborn Map

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| | |
|---|---|
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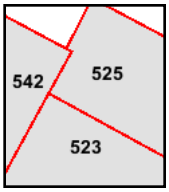
| Address: | 505 & 511 West 31st Street |
| City, ST, ZIP: | Los Angeles CA 90007 |
| Client: | Rincon |
| EDR Inquiry: | 4552368.3 |
| Order Date: | 3/1/2016 9:38:03 PM |
| Certification # | 8296-4B24-97F2 |
| Copyright: | 1922 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

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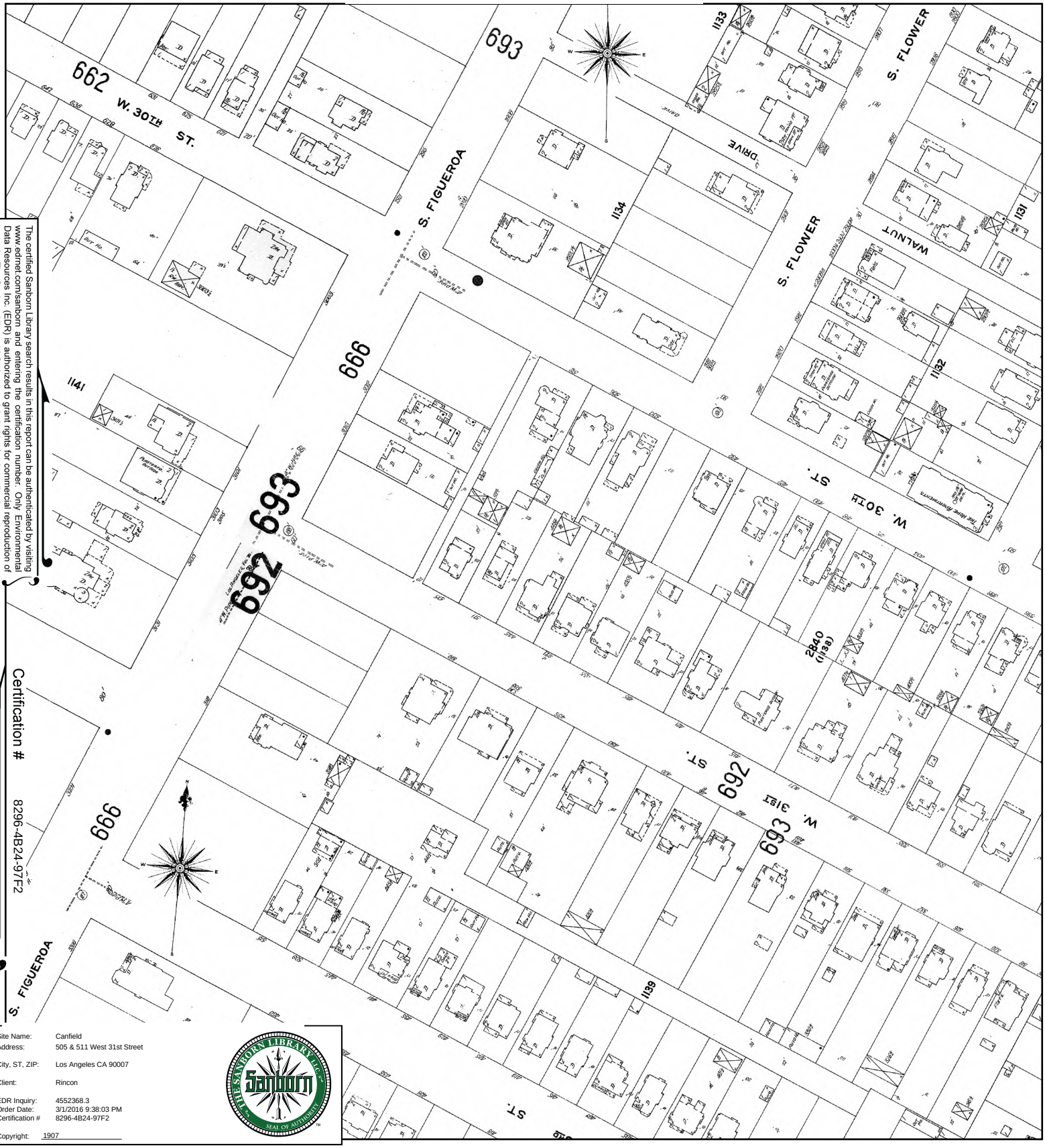
N

# 1907 Certified Sanborn Map

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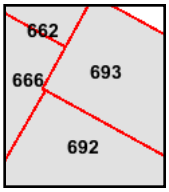
Certification # 8296-4B24-97F2

| | |
|---|---|
| Site Name: | Canfield |
| Address: | 505 & 511 West 31st Street |
| City, ST, ZIP: | Los Angeles CA 90007 |
| Client: | Rincon |
| EDR Inquiry: | 4552368.3 |
| Order Date: | 3/1/2016 9:38:03 PM |
| Certification # | 8296-4B24-97F2 |
| Copyright: | 1907 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

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Volume 6, Sheet 692
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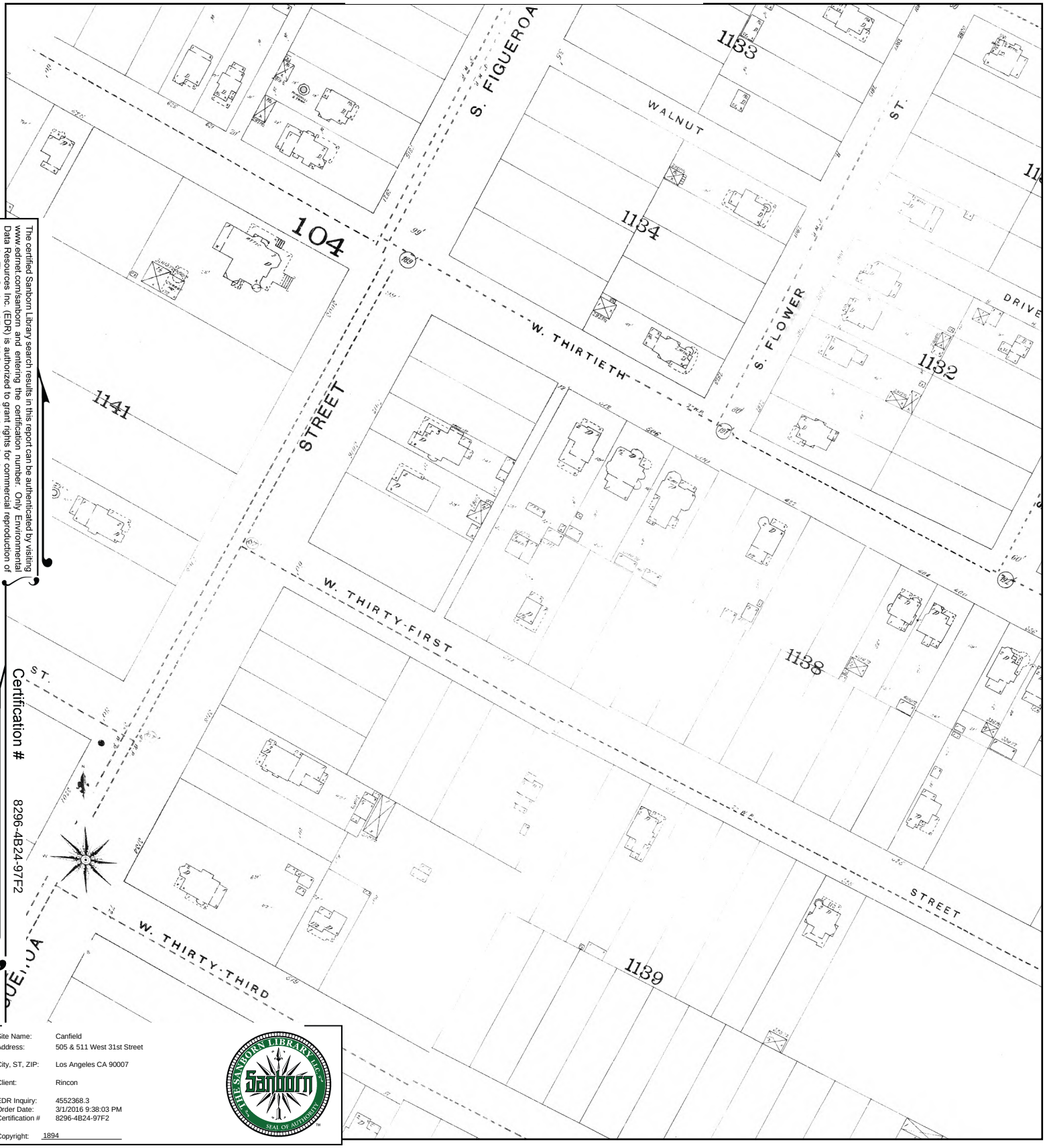
N

# 1894 Certified Sanborn Map

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| | |
|---|---|
| Site Name: | Canfield |
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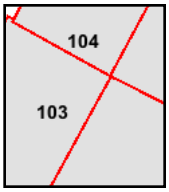
| City, ST, ZIP: | Los Angeles CA 90007 |
| Client: | Rincon |
| EDR Inquiry: | 4552368.3 |
| Order Date: | 3/1/2016 9:38:03 PM |
| Certification # | 8296-4B24-97F2 |
| Copyright: | 1894 |

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

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Volume 3, Sheet 104
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N

**Canfield**
505 & 511 West 31st Street
Los Angeles, CA 90007

Inquiry Number: 4552368.5
March 02, 2016

# The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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## SECTION

**Executive Summary**

**Findings**

**City Directory Images**

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EXECUTIVE SUMMARY

## DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 332 feet of the target property.

A summary of the information obtained is provided in the text of this report.

## RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 2013 | Cole Information Services | - | X | X | - |
| 2008 | Cole Information Services | - | X | X | - |
| 2006 | Haines Company, Inc | - | X | X | - |
| | Haines Company, Inc | X | X | X | - |
| 2004 | Haines Company | - | - | - | - |
| 2003 | Haines & Company | - | - | - | - |
| 2001 | Haines Company, Inc. | - | - | - | - |
| 2000 | Haines & Company | - | X | X | - |
| | Haines & Company | X | X | X | - |
| 1999 | Haines Company | - | - | - | - |
| 1996 | GTE | - | - | - | - |
| 1995 | Pacific Bell | - | X | X | - |
| 1992 | PACIFIC BELL WHITE PAGES | - | - | - | - |
| 1991 | Pacific Bell | - | X | X | - |
| 1990 | Pacific Bell | - | X | X | - |
| | Pacific Bell | X | X | X | - |
| 1986 | Pacific Bell | - | X | X | - |
| | Pacific Bell | X | X | X | - |
| 1985 | Pacific Bell | - | X | X | - |
| 1981 | Pacific Telephone | - | X | X | - |
| | Pacific Telephone | X | X | X | - |
| 1980 | Pacific Telephone | - | X | X | - |
| 1976 | Pacific Telephone | - | X | X | - |
| | Pacific Telephone | X | X | X | - |
| 1975 | Pacific Telephone | - | X | X | - |

# EXECUTIVE SUMMARY

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 1972 | R. L. Polk & Co. | - | - | - | - |
| 1971 | Pacific Telephone | - | X | X | - |
| | Pacific Telephone | X | X | X | - |
| 1970 | Pacific Telephone | - | X | X | - |
| 1969 | Pacific Telephone | - | - | - | - |
| 1967 | Pacific Telephone | - | X | X | - |
| | Pacific Telephone | X | X | X | - |
| 1966 | Pacific Telephone | - | - | - | - |
| 1965 | Pacific Telephone | - | X | X | - |
| 1964 | Pacific Telephone | - | X | X | - |
| 1963 | Pacific Telephone | - | - | - | - |
| 1962 | Pacific Telephone | - | X | X | - |
| | Pacific Telephone | X | X | X | - |
| 1961 | R. L. Polk & Co. | - | - | - | - |
| 1960 | Pacific Telephone | - | X | X | - |
| 1958 | Pacific Telephone | - | X | X | - |
| | Pacific Telephone | X | X | X | - |
| 1957 | Pacific Telephone | - | - | - | - |
| 1956 | Pacific Telephone | - | - | - | - |
| 1955 | R. L. Polk & Co. | - | - | - | - |
| 1954 | R. L. Polk & Co. | - | X | X | - |
| | R. L. Polk & Co. | X | X | X | - |
| 1952 | Los Angeles Directory Co. | - | - | - | - |
| 1951 | Pacific Telephone & Telegraph Co. | - | X | X | - |
| 1950 | Pacific Telephone | - | X | X | - |
| | Pacific Telephone | X | X | X | - |
| 1949 | Los Angeles Directory Co. | - | - | - | - |
| 1948 | Associated Telephone Company, Ltd. | - | - | - | - |
| 1947 | Pacific Directory Co. | - | - | - | - |
| 1946 | Southern California Telephone Co | - | - | - | - |
| 1945 | R. L. Polk & Co. | - | - | - | - |
| 1944 | R. L. Polk & Co. | - | - | - | - |
| 1942 | Los Angeles Directory Co. | - | X | X | - |
| | Los Angeles Directory Co. | X | X | X | - |
| 1940 | Los Angeles Directory Co. | - | - | - | - |
| 1939 | Los Angeles Directory Co. | - | - | - | - |
| 1938 | Los Angeles Directory Company Publishers | - | - | - | - |
| 1937 | Los Angeles Directory Co. | - | X | X | - |
| | Los Angeles Directory Co. | X | X | X | - |
| 1936 | Los Angeles Directory Co. | - | - | - | - |
| 1935 | Los Angeles Directory Co. | - | - | - | - |
| 1934 | Los Angeles Directory Co. | - | - | - | - |

# EXECUTIVE SUMMARY

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 1933 | Los Angeles Directory Co. | - | X | X | - |
| | Los Angeles Directory Co. | X | X | X | - |
| 1932 | Los Angeles Directory Co. | - | - | - | - |
| 1931 | TRIBUNE-NEWS PUBLISHING CO. | - | - | - | - |
| 1930 | Los Angeles Directory Co. | - | - | - | - |
| 1929 | Los Angeles Directory Co. | - | X | X | - |
| | Los Angeles Directory Co. | X | X | X | - |
| 1928 | Los Angeles Directory Co. | - | - | - | - |
| 1927 | Los Angeles Directory Co. | - | - | - | - |
| 1926 | Los Angeles Directory Co. | - | - | - | - |
| 1925 | Los Angeles Directory Co. | - | - | - | - |
| 1924 | Los Angeles Directory Co. | - | X | X | - |
| 1923 | Los Angeles Directory Co. | - | - | - | - |
| 1921 | Los Angeles Directory Co. | - | - | - | - |
| 1920 | Los Angeles Directory Co. | - | - | - | - |

# EXECUTIVE SUMMARY

## SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

| ***Address*** | ***Type*** | ***Findings*** |
|---|---|---|
| 505 west 31st street | Client Entered | X |
| 3001 South Flower street | Client Entered | X |
| 506 west 30th street | Client Entered | X |
| 517 west 31st street | Client Entered | X |
| 512 west 30th street | Client Entered | X |
| 510 west 31st street | Client Entered | X |
| 506 west 31st street | Client Entered | X |
| 3111 south flower street | Client Entered | X |
| 511 West 31st Street | Client Entered | X |

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

505 & 511 West 31st Street
Los Angeles, CA 90007

### FINDINGS DETAIL

Target Property research detail.

### 31ST W

**505 31ST W**

| Year | Uses | Source |
|---|---|---|
| 2000 | XXXX | Haines & Company |

**511 31ST W**

| Year | Uses | Source |
|---|---|---|
| 2000 | MARTINEZ Jesus | Haines & Company |
| | VITAR Pablo | Haines & Company |

### W 31ST

**505 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1971 | Nebel Jim | Pacific Telephone |
| | Reith John H | Pacific Telephone |
| | Scuddpr Mark | Pacific Telephone |
| 1962 | Lui Paul T | Pacific Telephone |
| | Russek J Y | Pacific Telephone |
| | Ryan Thos L R | Pacific Telephone |
| 1942 | Bahme John C | Los Angeles Directory Co. |
| | Doherty Susan M nurse | Los Angeles Directory Co. |
| | JONES Mabel A nurse | Los Angeles Directory Co. |
| | JORGENSON Carol D nurse | Los Angeles Directory Co. |
| | PURDY Mervyn T Phila M bkpr Venus Pkg Co | Los Angeles Directory Co. |
| | THOMPSON Sylvia F nurse | Los Angeles Directory Co. |
| | WAGNER De Ruth nurse | Los Angeles Directory Co. |
| 1937 | CASTRO Rudolph Frieda | Los Angeles Directory Co. |
| | Darling Wm Irene | Los Angeles Directory Co. |
| | Hadraba Robt J Marguerite agt Prudential Life Ins Co | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1937 | Masis Humberto | Los Angeles Directory Co. |
| 1933 | Dolly Jennie E Mrs | Los Angeles Directory Co. |
| | ROBINSON Robt B slsmn | Los Angeles Directory Co. |
| | ROBINSON Roy B Vivian coml agt Natl Carloading Corp | Los Angeles Directory Co. |

**511 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1990 | RANEY BRUCE R | Pacific Bell |
| 1986 | RANEY BRUCE R | Pacific Bell |
| 1981 | RANEY BRUCE R | Pacific Telephone |
| 1942 | Chiodo Emil Florence gro | Los Angeles Directory Co. |
| | Chiodo Julia | Los Angeles Directory Co. |
| 1937 | Berger Anna M wid A S | Los Angeles Directory Co. |
| | HAUPT Wm A enameler | Los Angeles Directory Co. |
| 1933 | BERGER Anna M | Los Angeles Directory Co. |
| 1929 | BERGER Andw S Anna M | Los Angeles Directory Co. |

## W 31ST CT

**511 W 31ST CT**

| Year | Uses | Source |
|---|---|---|
| 1954 | MABEE MARIANE MRS | R. L. Polk & Co. |
| 1950 | REED B F R | Pacific Telephone |

## W 31ST ST

**505 W 31ST ST**

| Year | Uses | Source |
|---|---|---|
| 2006 | Guillereo | Haines Company, Inc |
| | o LANGARICA | Haines Company, Inc |
| 1976 | White Carlos | Pacific Telephone |
| 1967 | Brost Frederic | Pacific Telephone |
| | Lui Paul T | Pacific Telephone |
| | Salat Hugues | Pacific Telephone |
| 1958 | Griffin Ross S Mrs | Pacific Telephone |
| | Ryan Thos L R | Pacific Telephone |

# FINDINGS

**511 W 31ST ST**

| Year | Uses | Source |
|---|---|---|
| 2006 | o MARTINEZJesus | Haines Company, Inc |

## west 31st street

**505 west 31st street**

| Year | Uses | Source |
|---|---|---|
| 2006 | Guillereo | Haines Company, Inc |
| | o LANGARICA | Haines Company, Inc |
| 2000 | XXXX | Haines & Company |
| 1976 | White Carlos | Pacific Telephone |
| 1971 | Nebel Jim | Pacific Telephone |
| | Reith John H | Pacific Telephone |
| | Scuddpr Mark | Pacific Telephone |
| 1967 | Brost Frederic | Pacific Telephone |
| | Lui Paul T | Pacific Telephone |
| | Salat Hugues | Pacific Telephone |
| 1962 | Lui Paul T | Pacific Telephone |
| | Russek J Y | Pacific Telephone |
| | Ryan Thos L R | Pacific Telephone |
| 1958 | Griffin Ross S Mrs | Pacific Telephone |
| | Ryan Thos L R | Pacific Telephone |
| 1942 | Bahme John C | Los Angeles Directory Co. |
| | Doherty Susan M nurse | Los Angeles Directory Co. |
| | JONES Mabel A nurse | Los Angeles Directory Co. |
| | JORGENSON Carol D nurse | Los Angeles Directory Co. |
| | PURDY Mervyn T Phila M bkpr Venus Pkg Co | Los Angeles Directory Co. |
| | THOMPSON Sylvia F nurse | Los Angeles Directory Co. |
| | WAGNER De Ruth nurse | Los Angeles Directory Co. |
| 1937 | CASTRO Rudolph Frieda | Los Angeles Directory Co. |
| | Darling Wm Irene | Los Angeles Directory Co. |
| | Hadraba Robt J Marguerite agt Prudential Life Ins Co | Los Angeles Directory Co. |
| | Masis Humberto | Los Angeles Directory Co. |
| 1933 | Dolly Jennie E Mrs | Los Angeles Directory Co. |
| | ROBINSON Robt B slsmn | Los Angeles Directory Co. |
| | ROBINSON Roy B Vivian coml agt Natl Carloading Corp | Los Angeles Directory Co. |

# FINDINGS

## West 31st Street

**511 West 31st Street**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2006 | o MARTINEZJesus | Haines Company, Inc |
| 2000 | MARTINEZ Jesus | Haines & Company |
| | VITAR Pablo | Haines & Company |
| 1990 | RANEY BRUCE R | Pacific Bell |
| 1986 | RANEY BRUCE R | Pacific Bell |
| 1981 | RANEY BRUCE R | Pacific Telephone |
| 1954 | MABEE MARIANE MRS | R. L. Polk & Co. |
| 1950 | REED B F R | Pacific Telephone |
| 1942 | Chiodo Emil Florence gro | Los Angeles Directory Co. |
| | Chiodo Julia | Los Angeles Directory Co. |
| 1937 | Berger Anna M wid A S | Los Angeles Directory Co. |
| | HAUPT Wm A enameler | Los Angeles Directory Co. |
| 1933 | BERGER Anna M | Los Angeles Directory Co. |
| 1929 | BERGER Andw S Anna M | Los Angeles Directory Co. |

# FINDINGS

## ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

### 30TH W

**400 30TH W**

| Year | Uses | Source |
|---|---|---|
| 2000 | TRIMLINE INC | Haines & Company |
| | TOTAL TRIM INC | Haines & Company |

**506 30TH W**

| Year | Uses | Source |
|---|---|---|
| 2000 | PRO SPORTSWEAR INC | Haines & Company |
| | RAINBOW TRADING CO | Haines & Company |

**512 30TH W**

| Year | Uses | Source |
|---|---|---|
| 2000 | ICKOVICS John | Haines & Company |

### 31ST

**541 31ST**

| Year | Uses | Source |
|---|---|---|
| 1981 | WILLIS VAL | Pacific Telephone |
| 1937 | Salma John Ruth lab | Los Angeles Directory Co. |

### 31ST W

**507 31ST W**

| Year | Uses | Source |
|---|---|---|
| 2000 | XXXX | Haines & Company |

**510 31ST W**

| Year | Uses | Source |
|---|---|---|
| 2000 | SEPULVEDA Norto | Haines & Company |

**512 31ST W**

| Year | Uses | Source |
|---|---|---|
| 2000 | a 1/2 WANG Hong | Haines & Company |

# FINDINGS

**515 31ST W**

| Year | Uses | Source |
|---|---|---|
| 2000 | MARTIN Rosemary | Haines & Company |

**516 31ST W**

| Year | Uses | Source |
|---|---|---|
| 2000 | RODRIGUEZ Arias Francisco | Haines & Company |
| | CARDENAS Evelia | Haines & Company |

**517 31ST W**

| Year | Uses | Source |
|---|---|---|
| 2000 | a 1/2 HUERTA Rodrigo | Haines & Company |

**519 31ST W**

| Year | Uses | Source |
|---|---|---|
| 2000 | XXXX | Haines & Company |

## FIGUEROA S

**3020 FIGUEROA S**

| Year | Uses | Source |
|---|---|---|
| 2000 | BLOCK H & R | Haines & Company |
| | BLOCK H & R | Haines & Company |

**3021 FIGUEROA S**

| Year | Uses | Source |
|---|---|---|
| 2000 | YOSHINOYA BEEF BOWL | Haines & Company |

**3025 FIGUEROA S**

| Year | Uses | Source |
|---|---|---|
| 2000 | BUTTON HOUSE THE | Haines & Company |

**3026 FIGUEROA S**

| Year | Uses | Source |
|---|---|---|
| 2000 | LA TAQUIZA NO | Haines & Company |

**3031 FIGUEROA S**

| Year | Uses | Source |
|---|---|---|
| 2000 | GRINDER RESTAURANTS | Haines & Company |

# FINDINGS

**3100 FIGUEROA S**

| Year | Uses | Source |
|---|---|---|
| 2000 | SUGARMAN Al | Haines & Company |

**3101 FIGUEROA S**

| Year | Uses | Source |
|---|---|---|
| 2000 | VAGABOND INN | Haines & Company |

## FIGUEROA ST S

**3025 FIGUEROA ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | S Figroa Federal Motor Sales | Pacific Telephone & Telegraph Co. |
| | S Figroa Federal Motor Sales | Pacific Telephone & Telegraph Co. |

**3026 FIGUEROA ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | S Figroa Richfield Service Stations Figueroa & 31st | Pacific Telephone & Telegraph Co. |

## FLOWER

**3006 FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1986 | FIERRO ROBT & OLVIA HTG PK | Pacific Bell |

**3037 FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1981 | BASS B LYNWOOD | Pacific Telephone |

**3069 FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1986 | YATES HERBERT J HTG PK | Pacific Bell |

**3102 FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1981 | YEMETZ JAKIW HTG PK | Pacific Telephone |
| | YEMETZ LIDIA HTG PK | Pacific Telephone |

**3111 FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1986 | MUNROE AGCY INC | Pacific Bell |

# FINDINGS

## FLOWER S

### 3001 FLOWER S

| Year | Uses | Source |
|---|---|---|
| 2000 | ICKOVICS John | Haines & Company |
| | JEAN MART | Haines & Company |

### 3019 FLOWER S

| Year | Uses | Source |
|---|---|---|
| 2000 | SARSHAR Josef | Haines & Company |

### 3021 FLOWER S

| Year | Uses | Source |
|---|---|---|
| 2000 | ESPARZA FILIBERTO | Haines & Company |

### 3023 FLOWER S

| Year | Uses | Source |
|---|---|---|
| 2000 | XXXX | Haines & Company |

### 3025 FLOWER S

| Year | Uses | Source |
|---|---|---|
| 2000 | XXXX | Haines & Company |

### 3111 FLOWER S

| Year | Uses | Source |
|---|---|---|
| 2000 | NEIGHBORHD HSNG SRV | Haines & Company |
| | NEIGHBORHD HOUSING SERVS OF LA | Haines & Company |
| | US NEIGHBORWKS HSNG | Haines & Company |

### 3115 FLOWER S

| Year | Uses | Source |
|---|---|---|
| 2000 | XXXX | Haines & Company |

### 3119 FLOWER S

| Year | Uses | Source |
|---|---|---|
| 2000 | MCINTIRE Robert | Haines & Company |

### 3127 FLOWER S

| Year | Uses | Source |
|---|---|---|
| 2000 | GONZALEZ David | Haines & Company |

# FINDINGS

**3131 FLOWER S**

| Year | Uses | Source |
|---|---|---|
| 2000 | UNIVRSL TRUCK DRIVING SCHOOL | Haines & Company |
| | ACTION DRIVING SCHOOL | Haines & Company |
| | ACTION DRIVING SCHOOL | Haines & Company |
| | ACTION DRIVING SC & REGISTRTN SV | Haines & Company |

## FLOWER ST S

**3000 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Spradling P H r | Pacific Telephone & Telegraph Co. |

**3001 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | S Flowr Herbst Oil Co | Pacific Telephone & Telegraph Co. |
| | Flowr HtgPk Thomas L M Jr r | Pacific Telephone & Telegraph Co. |

**3006 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPrk Kiler Beatrice M r | Pacific Telephone & Telegraph Co. |

**3007 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Schauppner Vernon E r | Pacific Telephone & Telegraph Co. |

**3012 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Fleming Archie E r | Pacific Telephone & Telegraph Co. |

**3013 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Ashton Geo R r | Pacific Telephone & Telegraph Co. |

**3016 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | S Flowr Bense Gerald H archt | Pacific Telephone & Telegraph Co. |
| | S Flowr Bense Gerald H archt | Pacific Telephone & Telegraph Co. |
| | S Flowr Bense Sarah M Mrs r | Pacific Telephone & Telegraph Co. |

# FINDINGS

**3018 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr WalPk Wright J R r | Pacific Telephone & Telegraph Co. |

**3019 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Keichline Wm J r | Pacific Telephone & Telegraph Co. |

**3022 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Bunte W A r | Pacific Telephone & Telegraph Co. |

**3023 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Natalie Arthur | Pacific Telephone & Telegraph Co. |
| | S Flowr Abrams H & Co price tags | Pacific Telephone & Telegraph Co. |
| | Flowr WalPk South Otis W r | Pacific Telephone & Telegraph Co. |

**3025 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | S Flowr A & G Radio Co | Pacific Telephone & Telegraph Co. |

**3027 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Della Ernest P r | Pacific Telephone & Telegraph Co. |
| | S Flowr | Pacific Telephone & Telegraph Co. |
| | Dahle Maxine r | Pacific Telephone & Telegraph Co. |
| | Gallagher Frank B r | Pacific Telephone & Telegraph Co. |
| | McMickin Anne Mrs r | Pacific Telephone & Telegraph Co. |

**3028 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Means Lewis r | Pacific Telephone & Telegraph Co. |

**3029 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | S Flowr Toms Clnrs | Pacific Telephone & Telegraph Co. |
| | Flowr Wood Edgar F r | Pacific Telephone & Telegraph Co. |

**3031 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | S Flowr Chaos Mkt | Pacific Telephone & Telegraph Co. |

# FINDINGS

**3032 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr WalPk Frick Gilbert R r | Pacific Telephone & Telegraph Co. |

**3033 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Whaley Florence B r | Pacific Telephone & Telegraph Co. |

**3036 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Tweedy C D r | Pacific Telephone & Telegraph Co. |

**3042 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Kennepohl B G r | Pacific Telephone & Telegraph Co. |

**3043 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr WalPrk White J V r | Pacific Telephone & Telegraph Co. |

**3046 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Schopp Wm C r | Pacific Telephone & Telegraph Co. |

**3047 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Di Cicco A R r | Pacific Telephone & Telegraph Co. |

**3050 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Hands C R r | Pacific Telephone & Telegraph Co. |

**3051 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Marshall L M Dr r | Pacific Telephone & Telegraph Co. |

**3054 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPrk Peterson Lena T | Pacific Telephone & Telegraph Co. |

**3055 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Rodgers Mal r | Pacific Telephone & Telegraph Co. |

# FINDINGS

**3060 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Fuller Harry D r | Pacific Telephone & Telegraph Co. |

**3061 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Delaney J P r | Pacific Telephone & Telegraph Co. |

**3064 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPrk Thomas A W r | Pacific Telephone & Telegraph Co. |

**3065 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPrk Cimmarrusti Tony r | Pacific Telephone & Telegraph Co. |

**3068 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Neiger Harold r | Pacific Telephone & Telegraph Co. |

**3069 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Sutton E L r | Pacific Telephone & Telegraph Co. |

**3101 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | E Flowr WalPk Mamrelli Emil S r | Pacific Telephone & Telegraph Co. |

**3102 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Lewis R C r | Pacific Telephone & Telegraph Co. |

**3107 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Muick Nicholas r | Pacific Telephone & Telegraph Co. |

**3108 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Milbrad E J r | Pacific Telephone & Telegraph Co. |

**3111 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | S Flowr Aqua Lux Sales Corp | Pacific Telephone & Telegraph Co. |

# FINDINGS

**3112 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr WalPk Will H B r | Pacific Telephone & Telegraph Co. |

**3113 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | S Flowr Leadingham John rl est | Pacific Telephone & Telegraph Co. |
| | Flowr Hellmerichs W J r | Pacific Telephone & Telegraph Co. |

**3115 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | S Flowr Sweasy H V rl est | Pacific Telephone & Telegraph Co. |

**3118 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Kling Harry r | Pacific Telephone & Telegraph Co. |

**3124 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPrk Halvorson Morgan r | Pacific Telephone & Telegraph Co. |

**3125 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Milloy Walter A r | Pacific Telephone & Telegraph Co. |

**3128 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr WalPk Henslee Alta r | Pacific Telephone & Telegraph Co. |

**3132 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Pickard Pearl E r | Pacific Telephone & Telegraph Co. |

**3133 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Williams Jas H r | Pacific Telephone & Telegraph Co. |

**3136 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Sunderland Jas r | Pacific Telephone & Telegraph Co. |

# FINDINGS

**3137 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPrk Henderson Clara Mrs r | Pacific Telephone & Telegraph Co. |

**3140 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Rath Elmer A r | Pacific Telephone & Telegraph Co. |

**3146 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPrk Simpson I H r | Pacific Telephone & Telegraph Co. |

**3147 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr WalPk MacCormack W H r | Pacific Telephone & Telegraph Co. |

**3152 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Beard Frank O r | Pacific Telephone & Telegraph Co. |

**3153 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Glover H B r | Pacific Telephone & Telegraph Co. |

**3156 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Daly Arthur M r | Pacific Telephone & Telegraph Co. |

**3157 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPrk Millard Jim G r | Pacific Telephone & Telegraph Co. |

**3161 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Hardy Geo W r | Pacific Telephone & Telegraph Co. |

**3165 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Wilson Robt E r | Pacific Telephone & Telegraph Co. |

**3168 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr Gibson Tom C r | Pacific Telephone & Telegraph Co. |

# FINDINGS

**3169 FLOWER ST S**

| Year | Uses | Source |
|---|---|---|
| 1951 | Flowr HtgPk Glanzman Walter W r | Pacific Telephone & Telegraph Co. |

## S FIGUEROA

**3018 S FIGUEROA**

| Year | Uses | Source |
|---|---|---|
| 1990 | SHENKIN LEONARD J DR OPTMTRST | Pacific Bell |
| | KIRSCHBAUM R J OPTMTST | Pacific Bell |
| | FIGUEROA OPTOMETRY CENTER | Pacific Bell |
| | FIGUEROA OPTOMETRY CENTER | Pacific Bell |

**3019 S FIGUEROA**

| Year | Uses | Source |
|---|---|---|
| 1990 | COOL PLACES FROZEN YOGURT | Pacific Bell |

**3020 S FIGUEROA**

| Year | Uses | Source |
|---|---|---|
| 1990 | DOMINO S PIZZA | Pacific Bell |

**3021 S FIGUEROA**

| Year | Uses | Source |
|---|---|---|
| 1990 | YOSHINOYA BEEF BOWL RESTAURANT | Pacific Bell |

**3025 S FIGUEROA**

| Year | Uses | Source |
|---|---|---|
| 1990 | DAVISON CONROY INC | Pacific Bell |
| 1986 | DAVISON-CONROY INC | Pacific Bell |
| 1985 | DAVISON CONROY INC | Pacific Bell |
| 1981 | DAVISON-CONROY INC | Pacific Telephone |
| | CAPTOL TRUCK SUPPLIES INC | Pacific Telephone |
| 1975 | DAVISON CONROY INC | Pacific Telephone |
| 1967 | RAWLINGS SPORTING GOODS CO | Pacific Telephone |
| 1962 | Rawlings Mfg Co sprtng gds | Pacific Telephone |
| | Rawlings Sporting Goods Co | Pacific Telephone |

**3026 S FIGUEROA**

| Year | Uses | Source |
|---|---|---|
| 1990 | ARBY S ROAST BEEF RESTAURANT | Pacific Bell |
| 1981 | BOND SALES INC | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1967 | BOYD MOTORS INC | Pacific Telephone |
| | Burton Sales Inc Credit Dept | Pacific Telephone |

**3031 S FIGUEROA**

| Year | Uses | Source |
|---|---|---|
| 1986 | VAGABOND COFFEE HOUSE | Pacific Bell |
| 1981 | VAGABOND COFFEE HOUSE | Pacific Telephone |

**3100 S FIGUEROA**

| Year | Uses | Source |
|---|---|---|
| 1990 | BURTON MOTORS CO | Pacific Bell |
| | BURTON SALES INC | Pacific Bell |
| | BOYD MOTORS INC | Pacific Bell |
| 1986 | BURTON SALES INC | Pacific Bell |
| | BURTON MOTORS CO | Pacific Bell |
| | BOYD MOTORS INC | Pacific Bell |
| 1981 | BURTON SALES INC | Pacific Telephone |
| | BURTON MOTORS CO | Pacific Telephone |
| 1967 | Burton Sales Inc used cars | Pacific Telephone |
| | Burton Motors Co | Pacific Telephone |
| 1962 | Burton Motors | Pacific Telephone |
| | Burton Sales Inc used cars | Pacific Telephone |
| 1924 | Lasher C D batteries | Los Angeles Directory Co. |

**3101 S FIGUEROA**

| Year | Uses | Source |
|---|---|---|
| 1986 | VAGABOND INN LOCAL LOCATIONS | Pacific Bell |
| 1981 | VAGABOND MOTOR HOTEL LOCAL LOCATIONS | Pacific Telephone |
| 1967 | Watson Malcolm C | Pacific Telephone |
| | VAGABOND MOTOR HOTEL | Pacific Telephone |

## S FIGUEROA ST

**3012 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 1976 | Tisner Truck Sales | Pacific Telephone |
| 1942 | HARLAN Saml Lucile used cars | Los Angeles Directory Co. |
| 1933 | Fercsh Harold H investigator Saml Levy | Los Angeles Directory Co. |
| 1929 | Pachmayr Alex L | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1929 | Anton Francis L Sarah phys | Los Angeles Directory Co. |
| 1924 | h | Los Angeles Directory Co. |

**3014 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | COFFEE FACTORY | Cole Information Services |
| 2006 | COFFEE FACTORY | Haines Company, Inc |
| 1942 | BROWN Arth J used cars | Los Angeles Directory Co. |

**3016 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 2013 | CUP O JOY | Cole Information Services |
| 2008 | BELLA CHAO MARKETING GROUP | Cole Information Services |
| | CUP O JOY | Cole Information Services |
| 2006 | CUPOJOY | Haines Company, Inc |

**3017 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 2013 | EXPRIT BO BA | Cole Information Services |
| | VIZTANGO CAFE | Cole Information Services |
| 2008 | EXPRIT BO BA | Cole Information Services |
| | BISTANGO CAFE | Cole Information Services |
| 2006 | EXPRITBOBA | Haines Company, Inc |
| | BISTANGO CAFE | Haines Company, Inc |

**3018 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | MICHAEL L HERMAN OD | Cole Information Services |
| | FIGUEROA OPTOMETRY CENTER | Cole Information Services |
| 2006 | OPTMTRY CT | Haines Company, Inc |
| | SHENKIN LEONARD | Haines Company, Inc |
| | VISION CARE | Haines Company, Inc |
| | FIGUEROA | Haines Company, Inc |
| | FIGUEROA | Haines Company, Inc |
| | OPTOMETRY | Haines Company, Inc |
| 1958 | Dunlap Wm W | Pacific Telephone |
| 1933 | Custer Marie waiter | Los Angeles Directory Co. |

# FINDINGS

**3019 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | CESARS FLOWERS | Cole Information Services |
| 2006 | CESARS FLOWERS | Haines Company, Inc |

**3020 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 2013 | FRED LOYA INSURANCE | Cole Information Services |
| | NICOLES BEAUTY SUPPLY | Cole Information Services |
| | H&R BLOCK | Cole Information Services |
| 2008 | H & R BLOCK | Cole Information Services |
| 2006 | H& R BLOCK | Haines Company, Inc |
| 1933 | LEVY Saml Mamie B used cars | Los Angeles Directory Co. |
| | SMITH Norval M speedometer repr | Los Angeles Directory Co. |
| 1929 | LEVY Saml Mamie gas sta | Los Angeles Directory Co. |
| 1924 | SMITH & Maring N M Smith Roy Maring auto accessories | Los Angeles Directory Co. |

**3021 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 2013 | YOSHINOYA | Cole Information Services |
| 2008 | YOSHINOYA WEST INC | Cole Information Services |
| | YOSHINOYA RESTAURANTS | Cole Information Services |
| 2006 | YOSHINOYA BEEF | Haines Company, Inc |
| | YOSHINOYAWEST | Haines Company, Inc |
| | BOWL RESTAURANT | Haines Company, Inc |

**3025 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 2013 | TORKIAN CONSTRUCTION INC | Cole Information Services |
| | 3025 MANSION LLC | Cole Information Services |
| 2008 | NIGHT FASHION INC | Cole Information Services |
| 2006 | FASHION | Haines Company, Inc |
| | NIGHTS | Haines Company, Inc |
| | MY MAGIC RUG | Haines Company, Inc |
| | SOLOMON RUG | Haines Company, Inc |
| | NIGHT FASHION INC | Haines Company, Inc |
| 1995 | DAVISON-CONROY INC | Pacific Bell |
| | Davidson Conroy Inc | Pacific Bell |
| | Davison Conroy Inc | Pacific Bell |
| | Davison D M Cov | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1991 | Davidson Conroy Inc | Pacific Bell |
| | Davidson D | Pacific Bell |
| | Davidson D | Pacific Bell |
| | Davidson D | Pacific Bell |
| | Davidson D | Pacific Bell |
| 1985 | DAVISON CONROY INC | Pacific Bell |
| | Davidson Conroy Inc | Pacific Bell |
| 1980 | DAVISON-CONROY INC | Pacific Telephone |
| | DAVIDSON-CONROY INC | Pacific Telephone |
| 1976 | Conroy Terry | Pacific Telephone |
| | DAVISON CONROY INC | Pacific Telephone |
| 1975 | DAVISON-CONROY INC | Pacific Telephone |
| | Davidson Conroy Inc | Pacific Telephone |
| | Davison Conroy Inc | Pacific Telephone |
| 1971 | ROBERTSON FACTORIES INC curtns | Pacific Telephone |
| | Royal Curtain Of California Inc General Office | Pacific Telephone |
| 1965 | RAWLINGS SPORTING GOODS CO | Pacific Telephone |
| 1964 | RAWLINGS SPORTINN GOODS CO | Pacific Telephone |
| 1962 | RAWLINGS SPORTING GOODS CO | Pacific Telephone |
| | RAWLINGS SPORTING GOODS CO | Pacific Telephone |
| 1960 | RAWLINGS SPORTING GOODS CO | Pacific Telephone |
| 1958 | Rawlings Mfg Co sprtng gds | Pacific Telephone |
| | Rawlings Sporting Goods Co | Pacific Telephone |
| 1942 | used cars | Los Angeles Directory Co. |
| | Snarr Chas B mech | Los Angeles Directory Co. |

**3026 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 2013 | FATBURGER | Cole Information Services |
| 2008 | FATBURGER ON FIGUEROA | Cole Information Services |
| | FAT BURGER | Cole Information Services |
| 2006 | FAT BURGER | Haines Company, Inc |
| | FATBURGERON | Haines Company, Inc |
| | FIGUEROA | Haines Company, Inc |
| | FATBURGERON | Haines Company, Inc |
| | FIGUEROA | Haines Company, Inc |
| 1976 | Bond Sales Inc | Pacific Telephone |
| 1971 | Bond Sales Inc | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1971 | Boyd Motors Inc | Pacific Telephone |
| 1924 | DE LUXE MANUFACTURING CO H E Perkins Mfrs of Tonneau Shields Visors Wings Etc | Los Angeles Directory Co. |
| | r | Los Angeles Directory Co. |
| | TRUBLPRUF TIRE CO G K Fargo Pres J L Hindman Vi Pres Sec | Los Angeles Directory Co. |

**3027 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 1933 | Cabot Isabel M Mrs cook | Los Angeles Directory Co. |

**3028 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 1924 | WILLIAMS Nolllo waiter r | Los Angeles Directory Co. |

**3029 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Bernies Used Cars | Pacific Telephone |

**3031 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 2013 | EMERGENCY LOCKSMITH | Cole Information Services |
| 2008 | DICKS GRINDER INC | Cole Information Services |
| 2006 | EATSTREET GRILL | Haines Company, Inc |

**3087 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 1933 | Leaf Jessie waiter | Los Angeles Directory Co. |

**3100 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 1976 | Burton Sales Inc | Pacific Telephone |
| | Auto Lot | Pacific Telephone |
| | Burton Motors Co | Pacific Telephone |
| 1971 | Burton Sales Inc used cars | Pacific Telephone |
| | Burton Motors Co | Pacific Telephone |
| 1958 | Burton Sales Inc used cars | Pacific Telephone |
| | Burton Motors | Pacific Telephone |
| 1942 | WATSON Tinney used cars | Los Angeles Directory Co. |
| 1933 | Mc CAIN Wm auto loans | Los Angeles Directory Co. |
| 1929 | Mc Cain Wm auto loans | Los Angeles Directory Co. |

# FINDINGS

**3101 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 2013 | VAGABOND INN LOS ANGELESUSC RESER | Cole Information Services |
| | VAGABOND INN | Cole Information Services |
| | TRIO HOUSE | Cole Information Services |
| 2008 | VAGABOND INNS INC | Cole Information Services |
| 2006 | VAGABOND INN | Haines Company, Inc |
| 1971 | Simkins K W | Pacific Telephone |
| | Vagabond Coffee House | Pacific Telephone |
| | VAGABOND MOTOR HOTEL | Pacific Telephone |
| 1967 | Vagabond Coffee House | Pacific Telephone |
| 1933 | Mothers Educational Center Assn Mrs Henrietta varian pres | Los Angeles Directory Co. |
| | YORK Geo R Elsa M printer | Los Angeles Directory Co. |
| | WILDE Thos B mach | Los Angeles Directory Co. |
| | WILDE Maud wid T B mgr Mothers Educational Center Assn | Los Angeles Directory Co. |
| | WILDE Dorothy Music tchr | Los Angeles Directory Co. |
| | SAWYERS Wm ednr | Los Angeles Directory Co. |
| 1929 | MOTHERS Educational Center Assn Maude Wilke mgr Mrs A R Varian sec | Los Angeles Directory Co. |
| 1924 | ALLEN Wilbur r | Los Angeles Directory Co. |
| | ARNOLD L C student r | Los Angeles Directory Co. |
| | Block B E r | Los Angeles Directory Co. |
| | Breese Jos r | Los Angeles Directory Co. |
| | Cookson W H student r | Los Angeles Directory Co. |
| | Dorsett W C r | Los Angeles Directory Co. |
| | GARRISON Jack | Los Angeles Directory Co. |
| | HARRISON J W r | Los Angeles Directory Co. |
| | LONG Philip R dentist L A Gen Hosp r | Los Angeles Directory Co. |
| | Mc BRIDE L r | Los Angeles Directory Co. |
| | MATTIS G E r | Los Angeles Directory Co. |
| | Mour B B r | Los Angeles Directory Co. |
| | MURPHY F M r | Los Angeles Directory Co. |
| | PALMER Harry student r | Los Angeles Directory Co. |
| | PETERSON Burl r | Los Angeles Directory Co. |
| | POWELL Kenneth student r | Los Angeles Directory Co. |
| | RICE M S r | Los Angeles Directory Co. |
| | SEARS Hugh r | Los Angeles Directory Co. |
| | SMITH C W r | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1924 | SWEET Milo r | Los Angeles Directory Co. |

**3103 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Herold Franz | Pacific Telephone |
| | Rakovszky Jos | Pacific Telephone |
| 1937 | BECK Geo pntr | Los Angeles Directory Co. |
| | Couden Jos A | Los Angeles Directory Co. |
| | Fontana Tomaso A | Los Angeles Directory Co. |
| | GIBBS J H Cora R slsmn | Los Angeles Directory Co. |
| | TAYLOR Robt D Dorothy | Los Angeles Directory Co. |
| 1933 | DAVIDSON C L Eleanor | Los Angeles Directory Co. |
| | Dodd Jos S Maret S solr | Los Angeles Directory Co. |
| | Laibe M S | Los Angeles Directory Co. |
| | Lambert Albt Agnes carp | Los Angeles Directory Co. |
| | Snecklough Jack Erin | Los Angeles Directory Co. |
| | Versin John Myrtle | Los Angeles Directory Co. |
| | Winters Louis F Margt A | Los Angeles Directory Co. |
| | WOOD Norman Violet | Los Angeles Directory Co. |
| | WOOD Violet Jan | Los Angeles Directory Co. |
| 1929 | Bohannon Chas D Mary auto mach | Los Angeles Directory Co. |
| | DODD Jos S Margt mach | Los Angeles Directory Co. |
| | Gouldin Lou L Mrs | Los Angeles Directory Co. |
| | HILL Frank | Los Angeles Directory Co. |
| 1924 | Guthrie Sherman W police r | Los Angeles Directory Co. |
| | INGRAM Geo slsmn Shell Co r | Los Angeles Directory Co. |
| | Musgrove Lucille slswmn r | Los Angeles Directory Co. |
| | SMITH Norval M Smith & Maring r | Los Angeles Directory Co. |

**3105 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Radian Motors | Pacific Telephone |
| 1942 | BAKER Leona Mrs | Los Angeles Directory Co. |
| | Couden Jos A | Los Angeles Directory Co. |
| | DUKE Irin Myrtle | Los Angeles Directory Co. |
| | MARSH Wm T Gertrude | Los Angeles Directory Co. |
| | Novotny Louis J phys | Los Angeles Directory Co. |
| | Novotny Louise D wid Louis | Los Angeles Directory Co. |
| | PAGE Bertha Mrs | Los Angeles Directory Co. |

| Year | Uses | Source |
|---|---|---|
| 1942 | REDDING Frances E | Los Angeles Directory Co. |
| 1937 | MAGUIRE Eliz | Los Angeles Directory Co. |
| | MAGUIRE Leo J real est | Los Angeles Directory Co. |
| | MAGUIRE Leo J jr slsmn | Los Angeles Directory Co. |
| 1929 | Mc GUIRE Eliz | Los Angeles Directory Co. |
| | Mc GUIRE Leo J Sophia Leo J Mc Guire & Sons | Los Angeles Directory Co. |
| | Mc GUIRE Leo J jr Leo J Mc Guire & Sons | Los Angeles Directory Co. |
| | MAGUIRE Eliz L | Los Angeles Directory Co. |
| | MAGUIRE Leo J Sophia Leo J Maguire & Sons | Los Angeles Directory Co. |
| 1924 | Maguire Alfd L slsmn r | Los Angeles Directory Co. |
| | Maguire Leo J real est h | Los Angeles Directory Co. |
| | Maguire Leo J jr civ eng Country Road Dept r | Los Angeles Directory Co. |

**3108 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 1929 | Madge Paul K auto repr | Los Angeles Directory Co. |
| | ONEIL Basil D Estelle vule | Los Angeles Directory Co. |
| | EVANS & Jeffries W P Evans R H Jeifries gas sta | Los Angeles Directory Co. |
| 1924 | Stenerson O Howard auto serv sta | Los Angeles Directory Co. |

**3110 S FIGUEROA ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Roy Motors Inc | Pacific Telephone |

## S FLOWER

**2983 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1937 | Flannery Rosemary | Los Angeles Directory Co. |

**3001 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1990 | LIQUETT INTERNATIONAL INC | Pacific Bell |
| 1986 | TICKETS OF CALIF | Pacific Bell |
| | CHORUS LINE INC | Pacific Bell |
| | ALL THAT JAZZ | Pacific Bell |
| 1981 | METROGRAPHICS INC | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1971 | METROGRAPHICS INCORPORATED | Pacific Telephone |
| 1967 | Page David Inc furn mfr | Pacific Telephone |
| | California CONTRACT DESIGN | Pacific Telephone |
| | David Page Inc furn mfr | Pacific Telephone |
| 1962 | S T P Sales Co Inc | Pacific Telephone |
| | S T P SALES C | Pacific Telephone |
| | MALTBY CO THE bearings | Pacific Telephone |
| | MALTBY BEARING CO | Pacific Telephone |

**3011 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1937 | Loftus Harriet Mrs clk County Charities | Los Angeles Directory Co. |

**3016 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1942 | Biles Ellsworth E jr Beatrice with Mut Life Ins Co | Los Angeles Directory Co. |
| 1937 | Biles E Ellsworth Beatrice agt Mut Life Ins Co | Los Angeles Directory Co. |
| 1933 | BILES Elmer E | Los Angeles Directory Co. |
| | BILES E Ellsworth jr Beatrice artist | Los Angeles Directory Co. |

**3018 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1942 | Ceballos Josephine | Los Angeles Directory Co. |
| 1937 | Zeballos Josephine wid Luciano | Los Angeles Directory Co. |
| 1933 | Chiodo Alfd barber | Los Angeles Directory Co. |
| | Chiodo Anna clk | Los Angeles Directory Co. |

**3019 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1986 | ROMAN FASHIONS | Pacific Bell |
| 1981 | ARELLANO ROSA SEWNG CONTR | Pacific Telephone |
| 1971 | Eddies Barber Shop | Pacific Telephone |
| 1967 | Ronns Mens Hair Styling | Pacific Telephone |
| 1962 | Brothers Two Barber Shop | Pacific Telephone |
| 1937 | CHARLES Victor barber | Los Angeles Directory Co. |
| 1933 | Chiodo Alfd barber | Los Angeles Directory Co. |

# FINDINGS

**3020 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1933 | Coote Philip Rose waiter | Los Angeles Directory Co. |

**3021 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1990 | ARELLANO VICENTE | Pacific Bell |
| 1986 | CUCAS SPORTSWEAR | Pacific Bell |
| 1981 | CUCAS SPORTSWEAR | Pacific Telephone |
| 1971 | Collegiate Beauty Shop | Pacific Telephone |
| 1967 | Collegiate Beauty Shop | Pacific Telephone |
| 1962 | Collegiate Beauty Shop | Pacific Telephone |
| 1937 | LEWIS Minetti O beauty shop | Los Angeles Directory Co. |
| 1933 | Martin Rose Mrs beauty shop | Los Angeles Directory Co. |

**3023 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1942 | Abrams Harry A Rebecca mfrs agt | Los Angeles Directory Co. |

**3025 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1971 | Classic Art Patterns | Pacific Telephone |
| 1967 | Duboff Jack | Pacific Telephone |

**3027 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1990 | PAN SIU YING WONG | Pacific Bell |
| 1986 | PAN SIU YING WONG | Pacific Bell |
| 1981 | PAN SIU YING WONG | Pacific Telephone |
| | MATA BARK | Pacific Telephone |
| 1971 | Brown E S | Pacific Telephone |
| 1967 | OConner Donald | Pacific Telephone |
| | Hare John E | Pacific Telephone |
| | Butterfield Chas L | Pacific Telephone |
| | Brown Edw S | Pacific Telephone |
| 1962 | Ortiz Victor | Pacific Telephone |
| | Butterfield Chas L | Pacific Telephone |
| | OConner Donald | Pacific Telephone |
| 1942 | Mc Micklin Anne M emp J J Haggarty Stores | Los Angeles Directory Co. |
| | Milner C D jr | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1942 | RYAN Thos R Esther J | Los Angeles Directory Co. |
| | Starkey Lee D delmn | Los Angeles Directory Co. |
| 1937 | GRAY Claude I Goldie fonnn Chester Williams Bldg | Los Angeles Directory Co. |
| | GRAY Claudia teleg opr | Los Angeles Directory Co. |
| | NELSON Vyalda L priv sec Genl Brewing Corp | Los Angeles Directory Co. |
| | WAGNER Leonard S Ruth auto mech | Los Angeles Directory Co. |
| 1933 | POWELL Warren A Agnes slsmn | Los Angeles Directory Co. |
| | POWELL Marion S waiter | Los Angeles Directory Co. |
| | Carmody Jos J Phyllis tel installer | Los Angeles Directory Co. |
| | SPOTTS Geo P Inez pntr | Los Angeles Directory Co. |

**3029 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1971 | Toms Cleaners | Pacific Telephone |
| 1967 | Toms Clnrs | Pacific Telephone |
| 1962 | Toms Clnrs | Pacific Telephone |
| 1937 | YORK Vick C clo clnr | Los Angeles Directory Co. |

**3031 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1981 | FREED REFRIGERATION SERVICE | Pacific Telephone |
| 1942 | Chiodo Emil Florence gro | Los Angeles Directory Co. |
| 1937 | Chiodo Emil Florence gro | Los Angeles Directory Co. |
| 1933 | CARR Chas E fruit | Los Angeles Directory Co. |
| | San Jimmy meats | Los Angeles Directory Co. |
| | Sonek Barry Rose gro | Los Angeles Directory Co. |

**3041 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1937 | Daehler John W pres Lighthouse Inc | Los Angeles Directory Co. |

**3077 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1929 | Hazlett Flo Mrs smstrs | Los Angeles Directory Co. |

**3111 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1990 | PICKERING & WARFIELD MOTORS | Pacific Bell |
| | PICKERING HUGH | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1986 | ADVANCED ENERGY SAVERS INC | Pacific Bell |
| 1981 | MUNROE AGCY INC | Pacific Telephone |
| | ADVANCED ENERGY SAVERS INC | Pacific Telephone |
| 1971 | MUNROE AGCY INC | Pacific Telephone |
| 1967 | MUNROE AGCY INC | Pacific Telephone |
| 1962 | Phil & Leos Appliance Supply | Pacific Telephone |
| | Philbin Morgan P Phil & Leos Appliance Supply | Pacific Telephone |
| | Rizuto Leo Phil & Leos Appliance Supply | Pacific Telephone |
| | Leo & Phils Appliance Supply | Pacific Telephone |

**3113 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1990 | BALDWIN AGCY INC | Pacific Bell |
| | BALDWIN J V MOTOR CO | Pacific Bell |
| 1986 | BALDWIN AGCY INC | Pacific Bell |
| | BALDWIN J V MOTOR CO | Pacific Bell |
| 1981 | AGCY INC | Pacific Telephone |
| | BALDWIN J V MOTOR CO | Pacific Telephone |
| 1971 | Genl Ofc | Pacific Telephone |
| | BALDWIN J V MOTOR CO | Pacific Telephone |
| | BALDWIN AGCY INC | Pacific Telephone |
| 1967 | BALDWIN J V MOTOR CO Genl Ofc | Pacific Telephone |
| | Transamerica Car Leasing | Pacific Telephone |
| | BALDWIN AGCY INC | Pacific Telephone |

**3115 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1971 | Kaleta Alex | Pacific Telephone |
| 1967 | Kaleta Alex | Pacific Telephone |
| 1942 | Broderick Thos A | Los Angeles Directory Co. |

**3120 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1942 | Connor Dorsey uphol | Los Angeles Directory Co. |
| 1937 | Billigmeier John Felipa chauf | Los Angeles Directory Co. |

**3125 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1929 | Milloy Walter A formn Mathews Paint Co | Los Angeles Directory Co. |

# FINDINGS

**3153 S FLOWER**

| Year | Uses | Source |
|---|---|---|
| 1924 | Mc Atee Bert civ eng r | Los Angeles Directory Co. |

## S FLOWER DR

**3033 S FLOWER DR**

| Year | Uses | Source |
|---|---|---|
| 1929 | ROBERTS Saml J dentist | Los Angeles Directory Co. |
| | r | Los Angeles Directory Co. |

## S FLOWER ST

**3001 S FLOWER ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | UNIVERSITY OF SOUTHERN CALIFORNIA | Cole Information Services |
| | UNIVERSITY OF SOUTHERN CALIFORNIA | Cole Information Services |
| 1976 | METROGRAPHICS INC | Pacific Telephone |

**3021 S FLOWER ST**

| Year | Uses | Source |
|---|---|---|
| 2006 | SOLIS Maria | Haines Company, Inc |
| 1958 | Collegiate Beauty Shop | Pacific Telephone |

**3023 S FLOWER ST**

| Year | Uses | Source |
|---|---|---|
| 1976 | L & L Auto Parts | Pacific Telephone |

**3029 S FLOWER ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Toms Clnrs | Pacific Telephone |

**3031 S FLOWER ST**

| Year | Uses | Source |
|---|---|---|
| 1976 | Shop | Pacific Telephone |
| | Freed Refrigeration Service | Pacific Telephone |
| 1958 | Chaos Market | Pacific Telephone |

**3033 S FLOWER ST**

| Year | Uses | Source |
|---|---|---|
| 2013 | EQ ACCOUNTING & TAX SERVICE | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2013 | ACTION DRIVING SCHOOL | Cole Information Services |
| 2008 | ACTION DRIVING SCHOOL | Cole Information Services |
| 2006 | EQ ACCOUNTING | Haines Company, Inc |
| | TAX SERVICE | Haines Company, Inc |
| | ACTION DRIVING | Haines Company, Inc |
| | SCHOOL | Haines Company, Inc |

**3035 S FLOWER ST**

| Year | Uses | Source |
|---|---|---|
| 2006 | FLORES | Haines Company, Inc |
| | Hermanegildo | Haines Company, Inc |

**3111 S FLOWER ST**

| Year | Uses | Source |
|---|---|---|
| 2008 | LOS ANGELES NEIGHBORHOOD HS | Cole Information Services |
| | LOS ANGELES NEIGHBORHOOD HS | Cole Information Services |
| 1976 | Munroe Agcy Inc | Pacific Telephone |
| 1958 | Leo & Phils Appliance Supply | Pacific Telephone |
| | Phil & Leos Appliance Supply | Pacific Telephone |
| | Philbin Morgan P Phil & Leos Appliance Supply | Pacific Telephone |
| | Rizuto Leo Phil & Leos Appliance Supply | Pacific Telephone |

**3113 S FLOWER ST**

| Year | Uses | Source |
|---|---|---|
| 1976 | Baldwin Agcy Inc | Pacific Telephone |
| | Baldwin J V Motor Co | Pacific Telephone |

**3115 S FLOWER ST**

| Year | Uses | Source |
|---|---|---|
| 1976 | Gonzalez Sam | Pacific Telephone |

**3118 S FLOWER ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Kling Harry | Pacific Telephone |

## South Flower street

**3001 South Flower street**

| Year | Uses | Source |
|---|---|---|
| 2000 | ICKOVICS John | Haines & Company |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2000 | JEAN MART | Haines & Company |
| 1990 | LIQUETT INTERNATIONAL INC | Pacific Bell |
| 1986 | ALL THAT JAZZ | Pacific Bell |
| | TICKETS OF CALIF | Pacific Bell |
| | CHORUS LINE INC | Pacific Bell |
| 1981 | METROGRAPHICS INC | Pacific Telephone |
| 1976 | METROGRAPHICS INC | Pacific Telephone |
| 1971 | METROGRAPHICS INCORPORATED | Pacific Telephone |
| 1967 | California CONTRACT DESIGN | Pacific Telephone |
| | Page David Inc furn mfr | Pacific Telephone |
| | David Page Inc furn mfr | Pacific Telephone |
| 1962 | S T P SALES C | Pacific Telephone |
| | S T P Sales Co Inc | Pacific Telephone |
| | MALTBY BEARING CO | Pacific Telephone |
| | MALTBY CO THE bearings | Pacific Telephone |
| 1951 | S Flowr Herbst Oil Co | Pacific Telephone & Telegraph Co. |
| | Flowr HtgPk Thomas L M Jr r | Pacific Telephone & Telegraph Co. |

## south flower street

**3111 south flower street**

| Year | Uses | Source |
|---|---|---|
| 2000 | NEIGHBORHD HOUSING SERVS OF LA | Haines & Company |
| | NEIGHBORHD HSNG SRV | Haines & Company |
| | US NEIGHBORWKS HSNG | Haines & Company |
| 1990 | PICKERING HUGH | Pacific Bell |
| | PICKERING & WARFIELD MOTORS | Pacific Bell |
| 1986 | ADVANCED ENERGY SAVERS INC | Pacific Bell |
| | MUNROE AGCY INC | Pacific Bell |
| 1981 | ADVANCED ENERGY SAVERS INC | Pacific Telephone |
| | MUNROE AGCY INC | Pacific Telephone |
| 1976 | Munroe Agcy Inc | Pacific Telephone |
| 1971 | MUNROE AGCY INC | Pacific Telephone |
| 1967 | MUNROE AGCY INC | Pacific Telephone |
| 1962 | Rizuto Leo Phil & Leos Appliance Supply | Pacific Telephone |
| | Leo & Phils Appliance Supply | Pacific Telephone |
| | Phil & Leos Appliance Supply | Pacific Telephone |
| | Philbin Morgan P Phil & Leos Appliance Supply | Pacific Telephone |

| Year | Uses | Source |
|---|---|---|
| 1958 | Leo & Phils Appliance Supply | Pacific Telephone |
| | Phil & Leos Appliance Supply | Pacific Telephone |
| | Philbin Morgan P Phil & Leos Appliance Supply | Pacific Telephone |
| | Rizuto Leo Phil & Leos Appliance Supply | Pacific Telephone |
| 1951 | S Flowr Aqua Lux Sales Corp | Pacific Telephone & Telegraph Co. |

## W 30TH

### 500 W 30TH

| Year | Uses | Source |
|---|---|---|
| 1942 | RUIZ Ismael Jesus | Los Angeles Directory Co. |
| | Ruiz Alicia | Los Angeles Directory Co. |
| 1937 | Ruiz Bert mtrnn | Los Angeles Directory Co. |
| | Ruiz Alicia cash May Co | Los Angeles Directory Co. |
| | RUIZ Ismael Jesusita | Los Angeles Directory Co. |
| 1933 | RUIZ Jesus O Mrs | Los Angeles Directory Co. |
| | RUIZ Gustavo O teller Cal Bank | Los Angeles Directory Co. |
| 1929 | RUIZ Jesus Mrs h | Los Angeles Directory Co. |
| | RUIZ Gustavo O teller Cal Bank r | Los Angeles Directory Co. |
| 1924 | Ruiz Dolores E r | Los Angeles Directory Co. |
| | RUIZ Gustavo O pro mgr Cal Bank r | Los Angeles Directory Co. |

### 504 W 30TH

| Year | Uses | Source |
|---|---|---|
| 1924 | NEWBERRY A J slsmn W M Murphy Motors Co r | Los Angeles Directory Co. |

### 506 W 30TH

| Year | Uses | Source |
|---|---|---|
| 1942 | NELSON Geo A Ida | Los Angeles Directory Co. |
| | RUSSELL Mary | Los Angeles Directory Co. |
| | Hays Lewis H | Los Angeles Directory Co. |
| 1937 | Esselman Bertha Mrs | Los Angeles Directory Co. |
| | NELSON Geo A Ida | Los Angeles Directory Co. |
| 1933 | NELSON Geo A Ida | Los Angeles Directory Co. |
| | RUSSELL Jas E | Los Angeles Directory Co. |
| | Van Tassel Margt Mrs | Los Angeles Directory Co. |
| 1929 | Gerstman Marie Nurse Methodist Hospital of Sou Cal | Los Angeles Directory Co. |
| | Lukon Jas W tchr City Sch | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1929 | NELSON Geo A Ida Nelson Bros | Los Angeles Directory Co. |
| | WILSON Cath Mrs nurse | Los Angeles Directory Co. |
| 1924 | NELSON Geo A Nelson Bros h | Los Angeles Directory Co. |

**512 W 30TH**

| Year | Uses | Source |
|---|---|---|
| 1942 | Milbery Clayton D | Los Angeles Directory Co. |
| | Lechler Sophia | Los Angeles Directory Co. |
| | LAYTON Lee | Los Angeles Directory Co. |
| | Langdon Geo Gertrude | Los Angeles Directory Co. |
| | Gerritson Lola | Los Angeles Directory Co. |
| | ECKERT Marvin shopmn A H Rude & Co | Los Angeles Directory Co. |
| | ECKERT Bertha Mrs | Los Angeles Directory Co. |
| | Bossert Kath C clk | Los Angeles Directory Co. |
| | Arnaiz Clara | Los Angeles Directory Co. |
| | Sheppe Eliz | Los Angeles Directory Co. |
| 1937 | ALDRICH John auto pntr | Los Angeles Directory Co. |
| | Ashcroft Robt C | Los Angeles Directory Co. |
| | CARROLL Annie Mrs | Los Angeles Directory Co. |
| | CASH Anne slswn | Los Angeles Directory Co. |
| | HENSLEY John Grace pntr | Los Angeles Directory Co. |
| | KESTER Matt | Los Angeles Directory Co. |
| | Salter Cecil C | Los Angeles Directory Co. |
| | SMITH John | Los Angeles Directory Co. |
| | STARR Wm A Marie | Los Angeles Directory Co. |
| 1933 | CARLETON Michl P Ruth slsmn | Los Angeles Directory Co. |
| | Gernold Marguerite K tchr City Schs | Los Angeles Directory Co. |
| 1929 | BRANDT Aug F gen clk City Eng | Los Angeles Directory Co. |
| | Lukasko John auto repr | Los Angeles Directory Co. |
| | Rueda Theo electn r | Los Angeles Directory Co. |
| | SHIELDS Jas J decorator r | Los Angeles Directory Co. |
| | Wade Cecil C clk City Bureau of Assessments r | Los Angeles Directory Co. |
| | WALL Earl C waiter r | Los Angeles Directory Co. |
| 1924 | ATLAS Manuel M slsmn Pacific Coast Borax Co r | Los Angeles Directory Co. |
| | BRANDT Fred A clk r | Los Angeles Directory Co. |
| | Bredberg Martin E tchr r | Los Angeles Directory Co. |
| | Gracy Thos H constr eng r | Los Angeles Directory Co. |
| | Jibaja Pedro F corr r | Los Angeles Directory Co. |

| Year | Uses | Source |
|---|---|---|
| 1924 | JORDAN Percy coml artist r | Los Angeles Directory Co. |
| | Lauer Jos F foremn city Eng r | Los Angeles Directory Co. |
| | Ullerich Herbt H clk r | Los Angeles Directory Co. |

**531 W 30TH**

| Year | Uses | Source |
|---|---|---|
| 1929 | Von Wiedenfield B P r | Los Angeles Directory Co. |

**547 W 30TH**

| Year | Uses | Source |
|---|---|---|
| 1933 | Sherry Paul W Margt mgr Hopperstead Barber Supp Co | Los Angeles Directory Co. |

**548 W 30TH**

| Year | Uses | Source |
|---|---|---|
| 1942 | TIERNEY Walter F Elliz | Los Angeles Directory Co. |

**554 W 30TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | Rosbrugh Jos H carp h | Los Angeles Directory Co. |

**555 W 30TH**

| Year | Uses | Source |
|---|---|---|
| 1924 | Harkness John A truck driver h | Los Angeles Directory Co. |

## W 30TH ST

**509 W 30TH ST**

| Year | Uses | Source |
|---|---|---|
| 1954 | MATTHEWS HAROLD J | R. L. Polk & Co. |

**512 W 30TH ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Smith Sewing Mach Serv | Pacific Telephone |

## W 31ST

**504 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1924 | WHEELER Ralph R clk r | Los Angeles Directory Co. |
| | WRIGHT Fredk E r | Los Angeles Directory Co. |
| | Torkelson Howa d T r | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1924 | Tighe Geo slsmn r | Los Angeles Directory Co. |
| | Sigma Chi Fraternity | Los Angeles Directory Co. |
| | Scott Carlisle C sec Mortgage Guarantee Co r | Los Angeles Directory Co. |
| | HUTCHINS Robt A clk r | Los Angeles Directory Co. |
| | Fuhrman Harry chemist r | Los Angeles Directory Co. |
| | BAKER Roy M trainer r | Los Angeles Directory Co. |
| | BLEDSOE E Vincel adj r | Los Angeles Directory Co. |
| | Bowersock Lawrence H slsmn L A Desk Co r | Los Angeles Directory Co. |
| | CAMPBELL Gordon T slsmn Allen T Archer Co h | Los Angeles Directory Co. |
| | EARLE Raymond slsmn r | Los Angeles Directory Co. |

**506 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1942 | WATSON Geo Mary | Los Angeles Directory Co. |

**507 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1990 | RAMOS MARIA LUISA | Pacific Bell |
| 1971 | Raney Bruce R | Pacific Telephone |
| 1962 | Walters N Ronald | Pacific Telephone |

**510 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1971 | Loa Fidel C | Pacific Telephone |
| 1962 | Edler W O | Pacific Telephone |
| | Spindler Helen Lanigan | Pacific Telephone |
| | Sues Marion V | Pacific Telephone |
| 1942 | Lauzier Ernest W Margot slsmn SO Co | Los Angeles Directory Co. |
| | WIRTH Harold L Jocelyn emp Leo J Meyberg Co | Los Angeles Directory Co. |
| 1933 | BURKE L Agnes Mrs | Los Angeles Directory Co. |
| | Collar Emily phys | Los Angeles Directory Co. |
| | Kelter Arth optorn | Los Angeles Directory Co. |
| | Mangan Mary A | Los Angeles Directory Co. |
| | Stoddard Geo L Kath | Los Angeles Directory Co. |
| 1929 | Etherden Sidney J Florence mach | Los Angeles Directory Co. |
| | MANGAN J J Mrs | Los Angeles Directory Co. |
| | MANGAN Mary E | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1929 | Defore Edith mach opr | Los Angeles Directory Co. |
| | BURKE Valentine J | Los Angeles Directory Co. |
| | Boudreau J T musician | Los Angeles Directory Co. |
| | Brazill W A clk | Los Angeles Directory Co. |
| | BURKE L Agnes wid John | Los Angeles Directory Co. |
| 1924 | STUART Edwd acct r | Los Angeles Directory Co. |
| | Strand Cath cashr r | Los Angeles Directory Co. |
| | Strand Arthur A mach r | Los Angeles Directory Co. |
| | BURKE L Agnes wid John h | Los Angeles Directory Co. |
| | Hattabaugh Chas R clk Ry M S r | Los Angeles Directory Co. |
| | Hattabaugh Maude J hairdrsr r | Los Angeles Directory Co. |
| | r | Los Angeles Directory Co. |
| | PARKER Chas B bkpr L A Gas & Elec Corp r | Los Angeles Directory Co. |
| | PARKER Olive r | Los Angeles Directory Co. |
| | r | Los Angeles Directory Co. |

**512 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1990 | CASTILLO MARIALUISA | Pacific Bell |
| 1986 | CASTILLO MARIALUISA | Pacific Bell |
| 1971 | Ogren Elsa V | Pacific Telephone |
| 1962 | Ogren Elsa V | Pacific Telephone |
| 1942 | Heid Clarence Ethel | Los Angeles Directory Co. |
| | Heid Ethel M dep collr U S Int Rev | Los Angeles Directory Co. |
| | Mc DONALD Geo Rowena | Los Angeles Directory Co. |

**515 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1942 | WATSON Ethel D typist | Los Angeles Directory Co. |
| | Koltes Julius | Los Angeles Directory Co. |
| | Reaside Lala nurse | Los Angeles Directory Co. |
| | RYAN Esther J nurse | Los Angeles Directory Co. |
| 1937 | Ellis Fern Clk | Los Angeles Directory Co. |
| | Hutchison Homer C slsmn Ralph Homlin Motors Inc | Los Angeles Directory Co. |
| | Rush Bebe waiter | Los Angeles Directory Co. |
| | WILSON Earl W Betty carp | Los Angeles Directory Co. |
| 1933 | Dwyar Mary Mrs | Los Angeles Directory Co. |
| | RAINS Wm M lawyer | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1929 | DWYER Mary Mrs | Los Angeles Directory Co. |
| | RAINS Wm M lawyer | Los Angeles Directory Co. |
| | r | Los Angeles Directory Co. |
| 1924 | DWYER John R foremn S P h | Los Angeles Directory Co. |

**516 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1990 | APARICIO ROLAND | Pacific Bell |
| | CARDENAS EVELIA | Pacific Bell |
| | CARDENAS JESUS | Pacific Bell |
| | SARMIENTO L | Pacific Bell |
| | SARMIENTO LORENZO | Pacific Bell |
| 1986 | CARDENAS EVELIA | Pacific Bell |
| | CARDENAS JESUS | Pacific Bell |
| | FERNANDEZ FIDEL | Pacific Bell |
| | MARTINEZ ALFONSO | Pacific Bell |
| | MONTOYA ROLANDO | Pacific Bell |
| | PEREZ JOSE | Pacific Bell |
| 1981 | BRIGHTE ROBERT H | Pacific Telephone |
| | CARDENAS EVELIA | Pacific Telephone |
| | JORDAN MARGAREATE L | Pacific Telephone |
| | MARTINEZ ALFONSO | Pacific Telephone |
| | MENDOZA SIXTO A | Pacific Telephone |
| | NAVARRO JOSE G | Pacific Telephone |
| | POPOCA JORGE V | Pacific Telephone |
| | SANDOVAL FERNANDO | Pacific Telephone |
| | TRINH NGHI | Pacific Telephone |
| 1971 | Londre Larry S | Pacific Telephone |
| | Turner Luther | Pacific Telephone |
| | El Cortez Apartments | Pacific Telephone |
| | Hall E B | Pacific Telephone |
| | Jordan Margareate L | Pacific Telephone |
| 1962 | El Cortez Apts | Pacific Telephone |
| | Mc Kee Louise Mrs | Pacific Telephone |
| | Murdaugh Herbert E | Pacific Telephone |
| | Sorensen Martin | Pacific Telephone |
| 1942 | Ambrose S J Kath drugs | Los Angeles Directory Co. |
| | ARBOGAST K D | Los Angeles Directory Co. |
| | Brungardt Cath nurse | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1942 | CAMPBELL W B | Los Angeles Directory Co. |
| | DANIEL Wm H Alice slsmn Vermont Motors | Los Angeles Directory Co. |
| | El Cortez Apartments | Los Angeles Directory Co. |
| | FISHER Mildred waiter | Los Angeles Directory Co. |
| | LOUIS Leonard | Los Angeles Directory Co. |
| | Mc KEE H E | Los Angeles Directory Co. |
| | Mc KEE Louise E clk | Los Angeles Directory Co. |
| | MEAD Wm J pres American Tool Products Co Inc | Los Angeles Directory Co. |
| | Ostrov Donald L | Los Angeles Directory Co. |
| | Pava Esther C tel opr | Los Angeles Directory Co. |
| | Pava Jack R Esther mech | Los Angeles Directory Co. |
| | SALAZAR Victor | Los Angeles Directory Co. |
| | SORENSEN Martin slsmn HA Co | Los Angeles Directory Co. |
| | WARD Jas emp D N & E W & Co | Los Angeles Directory Co. |
| | Weidmann Paul C clk | Los Angeles Directory Co. |
| 1937 | BROWN Harry G fieldmn Universal Credit Co | Los Angeles Directory Co. |
| | BROWN Lucille H mgr El Cortez Apts | Los Angeles Directory Co. |
| | CARTER Chas K mach | Los Angeles Directory Co. |
| | Croff Harry R | Los Angeles Directory Co. |
| | Eason Tillie | Los Angeles Directory Co. |
| | El Cortez Apartment | Los Angeles Directory Co. |
| | FITZGERALD Cora J slswn | Los Angeles Directory Co. |
| | French L M | Los Angeles Directory Co. |
| | Gebhart A F | Los Angeles Directory Co. |
| | Gebhart Archie J Marguerite B clk Dept of Motor Vehicles | Los Angeles Directory Co. |
| | Gebhart Marguarite Mrs clk | Los Angeles Directory Co. |
| | Groff Hugh Eloise slsmn Natl Life & Ace Ins Co | Los Angeles Directory Co. |
| | Havens Cecil R Rose mach | Los Angeles Directory Co. |
| | Havens Sally Mrs candymkr | Los Angeles Directory Co. |
| | Heinig Harry Betty | Los Angeles Directory Co. |
| | Hinkson Harold G slsmn | Los Angeles Directory Co. |
| | Hyde Bernice D office sec Edwards Bros Colonial Mortuary | Los Angeles Directory Co. |
| | Jensen Frank | Los Angeles Directory Co. |
| | ROLAND Wm C | Los Angeles Directory Co. |
| | SORENSEN Martin slsmn A H Vaughn | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1937 | WIRTH Harold L clk | Los Angeles Directory Co. |
| 1933 | ROBERTSON John | Los Angeles Directory Co. |
| | SIMES John L Hattie | Los Angeles Directory Co. |
| | Smythe Geo A Rose slsmn | Los Angeles Directory Co. |
| | STONE Dwight E Ina lumbermn Lounsberry & Harris | Los Angeles Directory Co. |
| | WALLACE Dorothy | Los Angeles Directory Co. |
| | WHITE Lisa Mrs mgr El Cortez Apts | Los Angeles Directory Co. |
| | WILLIAMS Edw R | Los Angeles Directory Co. |
| | Bidison Herbt E | Los Angeles Directory Co. |
| | CARSON Edgar L slsmn Undrwriters Salvage Co of N Y | Los Angeles Directory Co. |
| | CORNWELL Cleona B nurse | Los Angeles Directory Co. |
| | Cross Harry | Los Angeles Directory Co. |
| | DAY Chas M Rose | Los Angeles Directory Co. |
| | Diesller Reimer | Los Angeles Directory Co. |
| | Dreiman Ruth E bkpr Cal Consumers Co | Los Angeles Directory Co. |
| | Eason Tilie | Los Angeles Directory Co. |
| | El Cortez Apartments | Los Angeles Directory Co. |
| | Gehring Irvin H clk | Los Angeles Directory Co. |
| | HANSON Chas Associated Business Exchange | Los Angeles Directory Co. |
| | KING Mary clk | Los Angeles Directory Co. |
| | KINKAID Leah clk | Los Angeles Directory Co. |
| | La Chance Paul E | Los Angeles Directory Co. |
| | PALMER Ralph | Los Angeles Directory Co. |
| | REEVES Irma | Los Angeles Directory Co. |
| 1929 | El Cortez Apartments | Los Angeles Directory Co. |
| | Erb L W inspr State Div of Chemistry | Los Angeles Directory Co. |
| | FISH L D | Los Angeles Directory Co. |
| | FOREMAN D R | Los Angeles Directory Co. |
| | FOREMAN Jean Mrs mgr El Cortez Apts | Los Angeles Directory Co. |
| | Gregovich Geo appraiser Met Casualty Ins Co | Los Angeles Directory Co. |
| | HANCOCK Jas A slsmn Shell Co | Los Angeles Directory Co. |
| | HANLON F J | Los Angeles Directory Co. |
| | HART Wm | Los Angeles Directory Co. |
| | HAYNES Mary C sten | Los Angeles Directory Co. |
| | HORTON W A | Los Angeles Directory Co. |
| | JOHNSON J H | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1929 | Pirnie Eva L serv mgr Townsends Cal Glace Fruits | Los Angeles Directory Co. |
| | Risher S E h | Los Angeles Directory Co. |
| | ROBINSON F h | Los Angeles Directory Co. |
| | SCHENK Ruby Mrs waiter h | Los Angeles Directory Co. |
| | STROUD Reginald C h | Los Angeles Directory Co. |
| | Tobias Wilhelmina Mrs slsldy r | Los Angeles Directory Co. |
| | Ullom Earl h | Los Angeles Directory Co. |
| | VALENTINE Mildred sten r | Los Angeles Directory Co. |
| | Van Voorhis Dwight S ins agt h | Los Angeles Directory Co. |
| | Van Voorhis Margt Mrs bkpr Sidney ONeil Co r | Los Angeles Directory Co. |
| | WILLIAMS Irene E bkpr Sterling Chemical Co r | Los Angeles Directory Co. |
| | Wingate Roy h | Los Angeles Directory Co. |
| | Wyum D W h | Los Angeles Directory Co. |
| | Wyum Ray whsemn r | Los Angeles Directory Co. |

**517 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1981 | RODRIGUEZ JUAN MENDOZA | Pacific Telephone |

**519 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1990 | CAMPBELL WAYNE | Pacific Bell |
| 1971 | Davis Marvin | Pacific Telephone |
| | Gary Sophie Mrs | Pacific Telephone |
| 1962 | Gary Sophie Mrs | Pacific Telephone |

**521 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1942 | NIEMEYER Norma D nurse | Los Angeles Directory Co. |

**531 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1924 | Philbin Michl J bill poster r | Los Angeles Directory Co. |

**535 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1937 | Conterno Michl Lily lab | Los Angeles Directory Co. |

**512 1/2 W 31ST**

| Year | Uses | Source |
|---|---|---|
| 1990 | OGREN ELSA V | Pacific Bell |

## W 31ST CT

**502 W 31ST CT**

| Year | Uses | Source |
|---|---|---|
| 1985 | HARPUR S MARINE ENGINES | Pacific Bell |
| 1975 | HARPUR S MARINE ENGINES | Pacific Telephone |
| 1970 | HARPUR S MARINE ENGINES | Pacific Telephone |

**519 W 31ST CT**

| Year | Uses | Source |
|---|---|---|
| 1954 | ADAMSON C EDMUND | R. L. Polk & Co. |
| 1950 | BUCHER FREDERICK A R | Pacific Telephone |

**520 W 31ST CT**

| Year | Uses | Source |
|---|---|---|
| 1954 | MURRAY C A LT COMDR USN | R. L. Polk & Co. |
| 1950 | MURRAY C A LT COMDR USN | Pacific Telephone |

**527 W 31ST CT**

| Year | Uses | Source |
|---|---|---|
| 1954 | SOMERVILLE JOHN H | R. L. Polk & Co. |
| 1950 | SOMERVILLE JOHN H | Pacific Telephone |

**528 W 31ST CT**

| Year | Uses | Source |
|---|---|---|
| 1954 | L(OON LEONA LA VERNE | R. L. Polk & Co. |
| 1950 | KOON RICHARD R | Pacific Telephone |

**534 W 31ST CT**

| Year | Uses | Source |
|---|---|---|
| 1954 | FOSTER I L | R. L. Polk & Co. |
| 1950 | FOSTER I L | Pacific Telephone |

**535 W 31ST CT**

| Year | Uses | Source |
|---|---|---|
| 1954 | WOODS THOS | R. L. Polk & Co. |
| 1950 | WOODS THOS | Pacific Telephone |

**539 W 31ST CT**

| Year | Uses | Source |
|---|---|---|
| 1954 | MORELOCK VERN R | R. L. Polk & Co. |

**540 W 31ST CT**

| Year | Uses | Source |
|---|---|---|
| 1954 | MICK KATHARINE R R | R. L. Polk & Co. |
| 1950 | MICK KATHARINE RR | Pacific Telephone |

**570 W 31ST CT**

| Year | Uses | Source |
|---|---|---|
| 1954 | PETERSON J | R. L. Polk & Co. |

## W 31ST ST

**403 W 31ST ST**

| Year | Uses | Source |
|---|---|---|
| 1958 | Brinson Umberto | Pacific Telephone |

**407 W 31ST ST**

| Year | Uses | Source |
|---|---|---|
| 1976 | Rodriguez Maria Luisa | Pacific Telephone |

**501 W 31ST ST**

| Year | Uses | Source |
|---|---|---|
| 1954 | MILLER EUGENE E R | R. L. Polk & Co. |
| 1950 | MILLER EUGENE E R | Pacific Telephone |

**507 W 31ST ST**

| Year | Uses | Source |
|---|---|---|
| 2006 | No Current Listing | Haines Company, Inc |
| 1976 | Raney Bruce R | Pacific Telephone |
| 1967 | Walters N Ronald | Pacific Telephone |
| 1958 | Kaplan I R | Pacific Telephone |

**510 W 31ST ST**

| Year | Uses | Source |
|---|---|---|
| 2006 | DAVIS Moniquee S | Haines Company, Inc |
| 1967 | Ryan Thos L R | Pacific Telephone |
| 1958 | Edler W O | Pacific Telephone |
| | Sues Marion V | Pacific Telephone |

# FINDINGS

**512 W 31ST ST**

| Year | Uses | Source |
|---|---|---|
| 2006 | Va SOTOE | Haines Company, Inc |
| 1976 | Ogren Elsa V | Pacific Telephone |
| 1967 | Ogren Elsa V | Pacific Telephone |
| 1958 | Ogren Elsa V | Pacific Telephone |

**516 W 31ST ST**

| Year | Uses | Source |
|---|---|---|
| 2013 | FIGUEROA RETAIL LLC | Cole Information Services |
| 1976 | Velasquez Timoteo | Pacific Telephone |
| | Jordan Margareate L | Pacific Telephone |
| | Perez Gloria | Pacific Telephone |
| | Perrine Walter | Pacific Telephone |
| | Scott Ike | Pacific Telephone |
| 1967 | Berry Jas A | Pacific Telephone |
| | Borenstein Israel | Pacific Telephone |
| | Butler Russell L | Pacific Telephone |
| | El Cortez Apts | Pacific Telephone |
| | McKee Louis Mrs | Pacific Telephone |
| | Simms Lawrence | Pacific Telephone |
| | Sorensen Martin | Pacific Telephone |
| | Turner Luther | Pacific Telephone |
| 1958 | El Cortez Apts | Pacific Telephone |
| | Gerts Paul A | Pacific Telephone |
| | Hughes E M | Pacific Telephone |
| | Mc Kee Louise Mrs | Pacific Telephone |
| | Murdaugh Herbert E | Pacific Telephone |
| | Sorensen Martin | Pacific Telephone |
| | Abbas Mohamed | Pacific Telephone |

**518 W 31ST ST**

| Year | Uses | Source |
|---|---|---|
| 2006 | IZAGUIRRET | Haines Company, Inc |
| | CHU Ta Shun | Haines Company, Inc |
| | CHEN Danilng | Haines Company, Inc |
| | APARTMENTS | Haines Company, Inc |
| | KOU Zhlqing | Haines Company, Inc |
| | LIUYu Chi | Haines Company, Inc |
| | ONG Marsk Z | Haines Company, Inc |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2006 | WOODSTersy +S | Haines Company, Inc |
| | LEEJuo | Haines Company, Inc |

**519 W 31ST ST**

| Year | Uses | Source |
|---|---|---|
| 2006 | CERVANTES Ruby +B | Haines Company, Inc |
| 1967 | Gary Sophie Mrs | Pacific Telephone |
| 1958 | Gary Sophie Mrs | Pacific Telephone |

**539 W 31ST ST**

| Year | Uses | Source |
|---|---|---|
| 1964 | MONTGOMERY PAUL C LONG BEACH | Pacific Telephone |

## west 30th street

**506 west 30th street**

| Year | Uses | Source |
|---|---|---|
| 2000 | PRO SPORTSWEAR INC | Haines & Company |
| | RAINBOW TRADING CO | Haines & Company |
| 1942 | RUSSELL Mary | Los Angeles Directory Co. |
| | Hays Lewis H | Los Angeles Directory Co. |
| | NELSON Geo A Ida | Los Angeles Directory Co. |
| 1937 | NELSON Geo A Ida | Los Angeles Directory Co. |
| | Esselman Bertha Mrs | Los Angeles Directory Co. |
| 1933 | NELSON Geo A Ida | Los Angeles Directory Co. |
| | Van Tassel Margt Mrs | Los Angeles Directory Co. |
| | RUSSELL Jas E | Los Angeles Directory Co. |
| 1929 | NELSON Geo A Ida Nelson Bros | Los Angeles Directory Co. |
| | Lukon Jas W tchr City Sch | Los Angeles Directory Co. |
| | Gerstman Marie Nurse Methodist Hospital of Sou Cal | Los Angeles Directory Co. |
| | WILSON Cath Mrs nurse | Los Angeles Directory Co. |
| 1924 | NELSON Geo A Nelson Bros h | Los Angeles Directory Co. |

**512 west 30th street**

| Year | Uses | Source |
|---|---|---|
| 2000 | ICKOVICS John | Haines & Company |
| 1958 | Smith Sewing Mach Serv | Pacific Telephone |
| 1942 | Arnaiz Clara | Los Angeles Directory Co. |
| | ECKERT Bertha Mrs | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1942 | ECKERT Marvin shopmn A H Rude & Co | Los Angeles Directory Co. |
| | Sheppe Eliz | Los Angeles Directory Co. |
| | Bossert Kath C clk | Los Angeles Directory Co. |
| | Langdon Geo Gertrude | Los Angeles Directory Co. |
| | LAYTON Lee | Los Angeles Directory Co. |
| | Lechler Sophia | Los Angeles Directory Co. |
| | Milbery Clayton D | Los Angeles Directory Co. |
| | Gerritson Lola | Los Angeles Directory Co. |
| 1937 | ALDRICH John auto pntr | Los Angeles Directory Co. |
| | Ashcroft Robt C | Los Angeles Directory Co. |
| | KESTER Matt | Los Angeles Directory Co. |
| | CASH Anne slswn | Los Angeles Directory Co. |
| | Salter Cecil C | Los Angeles Directory Co. |
| | SMITH John | Los Angeles Directory Co. |
| | HENSLEY John Grace pntr | Los Angeles Directory Co. |
| | STARR Wm A Marie | Los Angeles Directory Co. |
| | CARROLL Annie Mrs | Los Angeles Directory Co. |
| 1933 | Gernold Marguerite K tchr City Schs | Los Angeles Directory Co. |
| | CARLETON Michl P Ruth slsmn | Los Angeles Directory Co. |
| 1929 | Rueda Theo electn r | Los Angeles Directory Co. |
| | Lukasko John auto repr | Los Angeles Directory Co. |
| | SHIELDS Jas J decorator r | Los Angeles Directory Co. |
| | Wade Cecil C clk City Bureau of Assessments r | Los Angeles Directory Co. |
| | WALL Earl C waiter r | Los Angeles Directory Co. |
| | BRANDT Aug F gen clk City Eng | Los Angeles Directory Co. |
| 1924 | Bredberg Martin E tchr r | Los Angeles Directory Co. |
| | BRANDT Fred A clk r | Los Angeles Directory Co. |
| | Jibaja Pedro F corr r | Los Angeles Directory Co. |
| | Ullerich Herbt H clk r | Los Angeles Directory Co. |
| | JORDAN Percy coml artist r | Los Angeles Directory Co. |
| | ATLAS Manuel M slsmn Pacific Coast Borax Co r | Los Angeles Directory Co. |
| | Gracy Thos H constr eng r | Los Angeles Directory Co. |
| | Lauer Jos F foremn city Eng r | Los Angeles Directory Co. |

# FINDINGS

## west 31st street

**506 west 31st street**

| Year | Uses | Source |
|---|---|---|
| 1942 | WATSON Geo Mary | Los Angeles Directory Co. |

**510 west 31st street**

| Year | Uses | Source |
|---|---|---|
| 2006 | DAVIS Moniquee S | Haines Company, Inc |
| 2000 | SEPULVEDA Norto | Haines & Company |
| 1971 | Loa Fidel C | Pacific Telephone |
| 1967 | Ryan Thos L R | Pacific Telephone |
| 1962 | Edler W O | Pacific Telephone |
| | Spindler Helen Lanigan | Pacific Telephone |
| | Sues Marion V | Pacific Telephone |
| 1958 | Sues Marion V | Pacific Telephone |
| | Edler W O | Pacific Telephone |
| 1942 | WIRTH Harold L Jocelyn emp Leo J Meyberg Co | Los Angeles Directory Co. |
| | Lauzier Ernest W Margot slsmn SO Co | Los Angeles Directory Co. |
| 1933 | Stoddard Geo L Kath | Los Angeles Directory Co. |
| | Mangan Mary A | Los Angeles Directory Co. |
| | BURKE L Agnes Mrs | Los Angeles Directory Co. |
| | Kelter Arth optorn | Los Angeles Directory Co. |
| | Collar Emily phys | Los Angeles Directory Co. |
| 1929 | MANGAN J J Mrs | Los Angeles Directory Co. |
| | MANGAN Mary E | Los Angeles Directory Co. |
| | Etherden Sidney J Florence mach | Los Angeles Directory Co. |
| | BURKE L Agnes wid John | Los Angeles Directory Co. |
| | Boudreau J T musician | Los Angeles Directory Co. |
| | Brazill W A clk | Los Angeles Directory Co. |
| | Defore Edith mach opr | Los Angeles Directory Co. |
| | BURKE Valentine J | Los Angeles Directory Co. |
| 1924 | STUART Edwd acct r | Los Angeles Directory Co. |
| | Strand Arthur A mach r | Los Angeles Directory Co. |
| | Strand Cath cashr r | Los Angeles Directory Co. |
| | BURKE L Agnes wid John h | Los Angeles Directory Co. |
| | r | Los Angeles Directory Co. |
| | r | Los Angeles Directory Co. |
| | PARKER Olive r | Los Angeles Directory Co. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1924 | PARKER Chas B bkpr L A Gas & Elec Corp r | Los Angeles Directory Co. |
| | Hattabaugh Chas R clk Ry M S r | Los Angeles Directory Co. |
| | Hattabaugh Maude J hairdrsr r | Los Angeles Directory Co. |

**517 west 31st street**

| Year | Uses | Source |
|---|---|---|
| 2000 | a 1/2 HUERTA Rodrigo | Haines & Company |
| 1981 | RODRIGUEZ JUAN MENDOZA | Pacific Telephone |

# FINDINGS

## TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 505 & 511 West 31st Street | 2013, 2008, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

## ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 2983 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3000 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3001 FLOWER S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3001 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3001 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3001 S FLOWER ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3001 S FLOWER ST | 2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 3001 South Flower street | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3006 FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3006 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3007 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3011 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3012 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3012 S FIGUEROA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 3013 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3014 S FIGUEROA ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3014 S FIGUEROA ST | 2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 3016 S FIGUEROA ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3016 S FIGUEROA ST | 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3016 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3017 S FIGUEROA ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3017 S FIGUEROA ST | 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3018 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3018 S FIGUEROA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3018 S FIGUEROA ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3018 S FIGUEROA ST | 2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3018 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 3019 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3019 S FIGUEROA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3019 S FIGUEROA ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3019 S FIGUEROA ST | 2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3019 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3020 FIGUEROA S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3020 S FIGUEROA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3020 S FIGUEROA ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 3020 S FIGUEROA ST | 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3020 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 3021 FLOWER S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3021 S FIGUEROA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3021 S FIGUEROA ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3021 S FIGUEROA ST | 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3021 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3021 S FLOWER ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3022 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3023 FLOWER S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3023 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3023 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| 3025 FIGUEROA S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3025 FIGUEROA ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3025 FLOWER S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3025 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3025 S FIGUEROA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1980, 1976, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3025 S FIGUEROA ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1972, 1970, 1969, 1967, 1966, 1963, 1961, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3025 S FIGUEROA ST | 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3025 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3026 FIGUEROA S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3026 FIGUEROA ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| Address Researched | Address Not Identified in Research Source |
|---|---|
| 3026 S FIGUEROA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3026 S FIGUEROA ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 3026 S FIGUEROA ST | 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3027 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3027 S FIGUEROA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3027 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3028 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3028 S FIGUEROA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 3029 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3029 S FIGUEROA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3029 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| Address Researched | Address Not Identified in Research Source |
|---|---|
| 3029 S FLOWER ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3031 FIGUEROA S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3031 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3031 S FIGUEROA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3031 S FIGUEROA ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3031 S FIGUEROA ST | 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3031 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3031 S FLOWER ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3032 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3033 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3033 S FLOWER DR | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| Address Researched | Address Not Identified in Research Source |
|---|---|
| 3033 S FLOWER ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3033 S FLOWER ST | 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3035 S FLOWER ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3036 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3037 FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3041 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3042 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3043 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3046 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3047 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3050 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| Address Researched | Address Not Identified in Research Source |
|---|---|
| 3051 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3054 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3055 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3060 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3061 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3064 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3065 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3068 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3069 FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3069 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3077 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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|---|---|
| 3087 S FIGUEROA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3100 FIGUEROA S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3100 S FIGUEROA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 3100 S FIGUEROA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3101 FIGUEROA S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3101 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3101 S FIGUEROA | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3101 S FIGUEROA ST | 2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 3101 S FIGUEROA ST | 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3102 FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3102 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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| Address Researched | Address Not Identified in Research Source |
|---|---|
| 3103 S FIGUEROA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 3105 S FIGUEROA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 3107 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3108 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3108 S FIGUEROA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 3110 S FIGUEROA ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3111 FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3111 FLOWER S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3111 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3111 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3111 S FLOWER ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 3111 S FLOWER ST | 2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3111 S FLOWER ST | 2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3111 south flower street | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3112 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3113 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3113 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3113 S FLOWER ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3115 FLOWER S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3115 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3115 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3115 S FLOWER ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 3118 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3118 S FLOWER ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3119 FLOWER S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3120 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3124 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3125 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3125 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3127 FLOWER S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3128 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3131 FLOWER S | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3132 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 3133 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3136 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3137 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3140 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3146 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3147 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3152 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3153 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3153 S FLOWER | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 3156 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3157 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |

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|---|---|
| 3161 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3165 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3168 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 3169 FLOWER ST S | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 400 30TH W | 2013, 2008, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 403 W 31ST ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 407 W 31ST ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 500 W 30TH | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920 |
| 501 W 31ST ST | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
| 502 W 31ST CT | 2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920 |
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# Appendix 4

*Laboratory Analytical Reports*

H&P Mobile Geochemistry Inc.

02 November 2016

Ms. Sarah Larese
Rincon Consultants - Ventura
180 North Ashwood Avenue
Ventura, CA 93003

H&P Project: RC102416-11
Client Project: 16-02377 / 505-511 W. 31st Street

Dear Ms. Sarah Larese:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 20-Oct-16 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis La Roux
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.

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| 180 North Ashwood Avenue | Project Number: | 16-02377 / 505-511 W. 31st Street | Reported: |
| Ventura, CA 93003 | Project Manager: | Ms. Sarah Larese | 02-Nov-16 10:06 |

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| SV1-5 | E610124-01 | Vapor | 20-Oct-16 | 20-Oct-16 |
| SV2-5 | E610124-02 | Vapor | 20-Oct-16 | 20-Oct-16 |
| SV3-5 | E610124-03 | Vapor | 20-Oct-16 | 20-Oct-16 |

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## DETECTIONS SUMMARY

Sample ID: **SV1-5** Laboratory ID: **E610124-01**

| Analyte | Result | Reporting Limit | Units | Method | Notes |
|---|---|---|---|---|---|
| **No Detections Reported** | | | | | |

Sample ID: **SV2-5** Laboratory ID: **E610124-02**

| Analyte | Result | Reporting Limit | Units | Method | Notes |
|---|---|---|---|---|---|
| **No Detections Reported** | | | | | |

Sample ID: **SV3-5** Laboratory ID: **E610124-03**

| Analyte | Result | Reporting Limit | Units | Method | Notes |
|---|---|---|---|---|---|
| **No Detections Reported** | | | | | |

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| Ventura, CA 93003 | Project Manager: | Ms. Sarah Larese | 02-Nov-16 10:06 |

## Volatile Organic Compounds by H&P 8260SV

## H&P Mobile Geochemistry, Inc.

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **SV1-5 (E610124-01) Vapor Sampled: 20-Oct-16 Received: 20-Oct-16** | | | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.50 | ug/l | 0.05 | EJ62607 | 25-Oct-16 | 25-Oct-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.50 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.05 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.50 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.50 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.50 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.50 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.50 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.50 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.50 | " | " | " | " | " | " | |
| Chloroform | ND | 0.10 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.50 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.10 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.10 | " | " | " | " | " | " | |
| Benzene | ND | 0.10 | " | " | " | " | " | " | |
| Trichloroethene | ND | 0.10 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.50 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.50 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 1.0 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.50 | " | " | " | " | " | " | |
| Tetrachloroethene | ND | 0.10 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.10 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.50 | " | " | " | " | " | " | |
| o-Xylene | ND | 0.50 | " | " | " | " | " | " | |

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| Ventura, CA 93003 | Project Manager: | Ms. Sarah Larese | 02-Nov-16 10:06 |

## Volatile Organic Compounds by H&P 8260SV

## H&P Mobile Geochemistry, Inc.

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **SV1-5 (E610124-01) Vapor Sampled: 20-Oct-16 Received: 20-Oct-16** | | | | | | | | | |
| Styrene | ND | 0.50 | ug/l | 0.05 | EJ62607 | 25-Oct-16 | 25-Oct-16 | H&P 8260SV | |
| Bromoform | ND | 0.50 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.50 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.50 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.50 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.50 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.50 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.10 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.50 | " | " | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *97.7 %* | *75-125* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *103 %* | *75-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *99.4 %* | *75-125* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *119 %* | *75-125* | | " | " | " | " | |

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## Volatile Organic Compounds by H&P 8260SV

## H&P Mobile Geochemistry, Inc.

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **SV2-5 (E610124-02) Vapor Sampled: 20-Oct-16 Received: 20-Oct-16** | | | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.50 | ug/l | 0.05 | EJ62607 | 25-Oct-16 | 25-Oct-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.50 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.05 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.50 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.50 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.50 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.50 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.50 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.50 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.50 | " | " | " | " | " | " | |
| Chloroform | ND | 0.10 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.50 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.10 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.10 | " | " | " | " | " | " | |
| Benzene | ND | 0.10 | " | " | " | " | " | " | |
| Trichloroethene | ND | 0.10 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.50 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.50 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 1.0 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.50 | " | " | " | " | " | " | |
| Tetrachloroethene | ND | 0.10 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.10 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.50 | " | " | " | " | " | " | |
| o-Xylene | ND | 0.50 | " | " | " | " | " | " | |

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## Volatile Organic Compounds by H&P 8260SV

## H&P Mobile Geochemistry, Inc.

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **SV2-5 (E610124-02) Vapor Sampled: 20-Oct-16 Received: 20-Oct-16** | | | | | | | | | |
| Styrene | ND | 0.50 | ug/l | 0.05 | EJ62607 | 25-Oct-16 | 25-Oct-16 | H&P 8260SV | |
| Bromoform | ND | 0.50 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.50 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.50 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.50 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.50 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.50 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.10 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.50 | " | " | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *101 %* | *75-125* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *108 %* | *75-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *98.1 %* | *75-125* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *122 %* | *75-125* | | " | " | " | " | |

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## Volatile Organic Compounds by H&P 8260SV

## H&P Mobile Geochemistry, Inc.

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **SV3-5 (E610124-03) Vapor Sampled: 20-Oct-16 Received: 20-Oct-16** | | | | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.50 | ug/l | 0.05 | EJ62607 | 25-Oct-16 | 25-Oct-16 | H&P 8260SV | |
| Dichlorodifluoromethane (F12) | ND | 0.50 | " | " | " | " | " | " | |
| Chloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Vinyl chloride | ND | 0.05 | " | " | " | " | " | " | |
| Bromomethane | ND | 0.50 | " | " | " | " | " | " | |
| Chloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Trichlorofluoromethane (F11) | ND | 0.50 | " | " | " | " | " | " | |
| Methylene chloride (Dichloromethane) | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.50 | " | " | " | " | " | " | |
| trans-1,2-Dichloroethene | ND | 0.50 | " | " | " | " | " | " | |
| 1,1-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,1-Dichloroethene | ND | 0.50 | " | " | " | " | " | " | |
| 2,2-Dichloropropane | ND | 0.50 | " | " | " | " | " | " | |
| cis-1,2-Dichloroethene | ND | 0.50 | " | " | " | " | " | " | |
| Chloroform | ND | 0.10 | " | " | " | " | " | " | |
| Bromochloromethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,1-Trichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,1-Dichloropropene | ND | 0.50 | " | " | " | " | " | " | |
| Carbon tetrachloride | ND | 0.10 | " | " | " | " | " | " | |
| 1,2-Dichloroethane (EDC) | ND | 0.10 | " | " | " | " | " | " | |
| Benzene | ND | 0.10 | " | " | " | " | " | " | |
| Trichloroethene | ND | 0.10 | " | " | " | " | " | " | |
| 1,2-Dichloropropane | ND | 0.50 | " | " | " | " | " | " | |
| Bromodichloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Dibromomethane | ND | 0.50 | " | " | " | " | " | " | |
| cis-1,3-Dichloropropene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 1.0 | " | " | " | " | " | " | |
| trans-1,3-Dichloropropene | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,2-Trichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | " | " | " | " | " | |
| 1,3-Dichloropropane | ND | 0.50 | " | " | " | " | " | " | |
| Tetrachloroethene | ND | 0.10 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Chlorobenzene | ND | 0.10 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | " | " | " | " | " | " | |
| m,p-Xylene | ND | 0.50 | " | " | " | " | " | " | |
| o-Xylene | ND | 0.50 | " | " | " | " | " | " | |

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## Volatile Organic Compounds by H&P 8260SV

## H&P Mobile Geochemistry, Inc.

| Analyte | Result | Reporting Limit | Units | Dilution Factor | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **SV3-5 (E610124-03) Vapor Sampled: 20-Oct-16 Received: 20-Oct-16** | | | | | | | | | |
| Styrene | ND | 0.50 | ug/l | 0.05 | EJ62607 | 25-Oct-16 | 25-Oct-16 | H&P 8260SV | |
| Bromoform | ND | 0.50 | " | " | " | " | " | " | |
| Isopropylbenzene (Cumene) | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | " | " | " | " | " | " | |
| 1,2,3-Trichloropropane | ND | 0.50 | " | " | " | " | " | " | |
| n-Propylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Bromobenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| 2-Chlorotoluene | ND | 0.50 | " | " | " | " | " | " | |
| 4-Chlorotoluene | ND | 0.50 | " | " | " | " | " | " | |
| tert-Butylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| sec-Butylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| p-Isopropyltoluene | ND | 0.50 | " | " | " | " | " | " | |
| 1,3-Dichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,4-Dichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| n-Butylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | " | " | " | " | " | " | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| Hexachlorobutadiene | ND | 0.50 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.10 | " | " | " | " | " | " | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | " | " | " | " | " | " | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.50 | " | " | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *99.8 %* | *75-125* | | *"* | *"* | *"* | *"* | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *106 %* | *75-125* | | *"* | *"* | *"* | *"* | |
| *Surrogate: Toluene-d8* | | *97.7 %* | *75-125* | | *"* | *"* | *"* | *"* | |
| *Surrogate: 4-Bromofluorobenzene* | | *118 %* | *75-125* | | *"* | *"* | *"* | *"* | |

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

| | | | |
|---|---|---|---|
| Rincon Consultants - Ventura | Project: | RC102416-11 | |
| 180 North Ashwood Avenue | Project Number: | 16-02377 / 505-511 W. 31st Street | Reported: |
| Ventura, CA 93003 | Project Manager: | Ms. Sarah Larese | 02-Nov-16 10:06 |

## Volatile Organic Compounds by H&P 8260SV - Quality Control

## H&P Mobile Geochemistry, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ62607 - EPA 5030** | | | | | | | | | | |
| **Blank (EJ62607-BLK1)** | | | | Prepared & Analyzed: 25-Oct-16 | | | | | | |
| 1,1-Difluoroethane (LCC) | ND | 0.50 | ug/l | | | | | | | |
| Dichlorodifluoromethane (F12) | ND | 0.50 | " | | | | | | | |
| Chloromethane | ND | 0.50 | " | | | | | | | |
| Vinyl chloride | ND | 0.05 | " | | | | | | | |
| Bromomethane | ND | 0.50 | " | | | | | | | |
| Chloroethane | ND | 0.50 | " | | | | | | | |
| Trichlorofluoromethane (F11) | ND | 0.50 | " | | | | | | | |
| Methylene chloride (Dichloromethane) | ND | 0.50 | " | | | | | | | |
| Methyl tertiary-butyl ether (MTBE) | ND | 0.50 | " | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | " | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | " | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | " | | | | | | | |
| 2,2-Dichloropropane | ND | 0.50 | " | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | " | | | | | | | |
| Chloroform | ND | 0.10 | " | | | | | | | |
| Bromochloromethane | ND | 0.50 | " | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | " | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | " | | | | | | | |
| Carbon tetrachloride | ND | 0.10 | " | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.10 | " | | | | | | | |
| Benzene | ND | 0.10 | " | | | | | | | |
| Trichloroethene | ND | 0.10 | " | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | " | | | | | | | |
| Bromodichloromethane | ND | 0.50 | " | | | | | | | |
| Dibromomethane | ND | 0.50 | " | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 1.0 | " | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | " | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | " | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | " | | | | | | | |
| Tetrachloroethene | ND | 0.10 | " | | | | | | | |
| Dibromochloromethane | ND | 0.50 | " | | | | | | | |
| Chlorobenzene | ND | 0.10 | " | | | | | | | |

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Carlsbad, CA 92010
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| | | | |
|---|---|---|---|
| Rincon Consultants - Ventura | Project: | RC102416-11 | |
| 180 North Ashwood Avenue | Project Number: | 16-02377 / 505-511 W. 31st Street | Reported: |
| Ventura, CA 93003 | Project Manager: | Ms. Sarah Larese | 02-Nov-16 10:06 |

## Volatile Organic Compounds by H&P 8260SV - Quality Control

## H&P Mobile Geochemistry, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ62607 - EPA 5030** | | | | | | | | | | |
| **Blank (EJ62607-BLK1)** | | | | Prepared & Analyzed: 25-Oct-16 | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/l | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | " | | | | | | | |
| m,p-Xylene | ND | 0.50 | " | | | | | | | |
| o-Xylene | ND | 0.50 | " | | | | | | | |
| Styrene | ND | 0.50 | " | | | | | | | |
| Bromoform | ND | 0.50 | " | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 0.50 | " | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | " | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.50 | " | | | | | | | |
| n-Propylbenzene | ND | 0.50 | " | | | | | | | |
| Bromobenzene | ND | 0.50 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | " | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | " | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | " | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | " | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | " | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | " | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | " | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | " | | | | | | | |
| n-Butylbenzene | ND | 0.50 | " | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | " | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | " | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | " | | | | | | | |
| Hexachlorobutadiene | ND | 0.50 | " | | | | | | | |
| Naphthalene | ND | 0.10 | " | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | " | | | | | | | |
| 1,1,2 Trichlorotrifluoroethane (F113) | ND | 0.50 | " | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *2.44* | | *"* | *2.50* | | *97.6* | *75-125* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.52* | | *"* | *2.50* | | *101* | *75-125* | | | |
| *Surrogate: Toluene-d8* | *2.42* | | *"* | *2.50* | | *96.9* | *75-125* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.85* | | *"* | *2.50* | | *114* | *75-125* | | | |

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| | | | |
|---|---|---|---|
| Rincon Consultants - Ventura | Project: | RC102416-11 | |
| 180 North Ashwood Avenue | Project Number: | 16-02377 / 505-511 W. 31st Street | Reported: |
| Ventura, CA 93003 | Project Manager: | Ms. Sarah Larese | 02-Nov-16 10:06 |

## Volatile Organic Compounds by H&P 8260SV - Quality Control

## H&P Mobile Geochemistry, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ62607 - EPA 5030** | | | | | | | | | | |
| **LCS (EJ62607-BS1)** | | | | Prepared & Analyzed: 25-Oct-16 | | | | | | |
| Dichlorodifluoromethane (F12) | 3.70 | 0.50 | ug/l | 5.00 | | 74.0 | 70-130 | | | |
| Vinyl chloride | 3.56 | 0.05 | " | 5.00 | | 71.2 | 70-130 | | | |
| Chloroethane | 3.25 | 0.50 | " | 5.00 | | 65.1 | 70-130 | | | QL-1L |
| Trichlorofluoromethane (F11) | 4.38 | 0.50 | " | 5.00 | | 87.5 | 70-130 | | | |
| Methylene chloride (Dichloromethane) | 5.40 | 0.50 | " | 5.00 | | 108 | 70-130 | | | |
| trans-1,2-Dichloroethene | 5.29 | 0.50 | " | 5.00 | | 106 | 70-130 | | | |
| 1,1-Dichloroethane | 4.93 | 0.50 | " | 5.00 | | 98.7 | 70-130 | | | |
| 1,1-Dichloroethene | 5.04 | 0.50 | " | 5.00 | | 101 | 70-130 | | | |
| cis-1,2-Dichloroethene | 5.00 | 0.50 | " | 5.00 | | 100 | 70-130 | | | |
| Chloroform | 5.11 | 0.10 | " | 5.00 | | 102 | 70-130 | | | |
| 1,1,1-Trichloroethane | 4.83 | 0.50 | " | 5.00 | | 96.6 | 70-130 | | | |
| Carbon tetrachloride | 5.44 | 0.10 | " | 5.00 | | 109 | 70-130 | | | |
| 1,2-Dichloroethane (EDC) | 5.16 | 0.10 | " | 5.00 | | 103 | 70-130 | | | |
| Benzene | 5.03 | 0.10 | " | 5.00 | | 101 | 70-130 | | | |
| Trichloroethene | 4.97 | 0.10 | " | 5.00 | | 99.5 | 70-130 | | | |
| Toluene | 4.92 | 1.0 | " | 5.00 | | 98.3 | 70-130 | | | |
| 1,1,2-Trichloroethane | 5.01 | 0.50 | " | 5.00 | | 100 | 70-130 | | | |
| Tetrachloroethene | 5.04 | 0.10 | " | 5.00 | | 101 | 70-130 | | | |
| Ethylbenzene | 4.61 | 0.50 | " | 5.00 | | 92.2 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 4.87 | 0.50 | " | 5.00 | | 97.5 | 70-130 | | | |
| m,p-Xylene | 9.57 | 0.50 | " | 10.0 | | 95.7 | 70-130 | | | |
| o-Xylene | 4.76 | 0.50 | " | 5.00 | | 95.1 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 5.41 | 0.50 | " | 5.00 | | 108 | 70-130 | | | |
| 1,1,2 Trichlorotrifluoroethane (F113) | 4.51 | 0.50 | " | 5.00 | | 90.3 | 70-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.51* | | *"* | *2.50* | | *100* | *75-125* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.74* | | *"* | *2.50* | | *110* | *75-125* | | | |
| *Surrogate: Toluene-d8* | *2.57* | | *"* | *2.50* | | *103* | *75-125* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.74* | | *"* | *2.50* | | *110* | *75-125* | | | |

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| | | | |
|---|---|---|---|
| Rincon Consultants - Ventura | Project: | RC102416-11 | |
| 180 North Ashwood Avenue | Project Number: | 16-02377 / 505-511 W. 31st Street | Reported: |
| Ventura, CA 93003 | Project Manager: | Ms. Sarah Larese | 02-Nov-16 10:06 |

## Notes and Definitions

| | |
|---|---|
| QL-1L | The LCS and/or LCSD recoveries fell below the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased low. |
| LCC | Leak Check Compound |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| MDL | Method Detection Limit |
| %REC | Percent Recovery |
| RPD | Relative Percent Difference |

## Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L15-279-R1

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

H&P Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

# VAPOR / AIR Chain of Custody

DATE: 10/20/16
Page 1 of 1

## Lab Client and Project Information

| | |
|---|---|
| Lab Client/Consultant: Rincon | Project Name / #: 16-02377 |
| Lab Client Project Manager: Sarah Carese | Project Location: 505-511 W. 31st St Los Angeles, CA |
| Lab Client Address: 172 North Ashwood Ave | Report E-Mail(s): sarah@rinconconsultants.com ddailey@rinconconsultants.com DDiNapoli@rinconconsultants |
| Lab Client City, State, Zip: Ventura, CA 93003 | |
| Phone Number: (805) 644-4455 47 | |

## Sample Receipt (Lab Use Only)

| | |
|---|---|
| Date Rec'd: 10/24/16 | Control #: 160962.05 |
| H&P Project # RC102416-11 | |
| Lab Work Order # E610124 | |
| Sample Intact: ☒ Yes ☐ No ☐ See Notes Below | |
| Receipt Gauge ID: 11167 | Temp: RT |
| Outside Lab: | |
| Receipt Notes/Tracking #: | |
| Lab PM Initials: KIM | |

## Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☐ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

## Turnaround Time

☒ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☐ Mobile Lab
☐ 48-Hr Rush ☐ Other:_____

## Sampler Information

Sampler(s): T. Taylor
Signature:
Date: 10/20/16

## Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

| SAMPLE NAME | FIELD POINT NAME (if applicable) | DATE mm/dd/yy | TIME 24hr clock | SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV) | CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube | CONTAINER ID (###) | Lab use only: Receipt Vac | VOCs Standard Full List ☒ 8260SV ☐ TO-15 | VOCs Short List / Project List ☐ 8260SV ☐ TO-15 | Oxygenates ☐ 8260SV ☐ TO-15 | Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m | TPHv as Gas ☐ 8260SVm ☐ TO-15m | TPHv as Diesel (sorbent tube) ☐ TO-17m | Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m | Leak Check Compound ☒ DFA ☐ IPA ☐ He | Methane by EPA 8015m | Fixed Gases by ASTM D1945 ☐ CO2 ☐ N2 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SV1-5 | NA | 10/20/16 | 1014 | SV | 400 mL Summa | 507 | -.54 | X | | | | | | | X | | | | | |
| SV2-5 | ↓ | ↓ | 1046 | ↓ | ↓ | 514 | -.87 | X | | | | | | | X | | | | | |
| SV3-5 | ↓ | ↓ | 1121 | ↓ | ↓ | 524 | -1.44 | X | | | | | | | X | | | | | |

| Approved/Relinquished by: | Company: | Date: | Time: | Received by: | Company: | Date: | Time: |
|---|---|---|---|---|---|---|---|
| [signature] | Rincon | 10/20/16 | 1147 | [signature] | H&P | 10/20/16 | 1147 |
| Approved/Relinquished by: | Company: | Date: | Time: | Received by: | Company: | Date: | Time: |
| Approved/Relinquished by: | Company: | Date: | Time: | Received by: | Company: | Date: | Time: |

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

H&P Mobile Geochemistry Inc.

FMS005
Revision: 3
Revised: 1/15/16
Effective: 1/25/16
Page 1 of 1

# Log Sheet: Soil Vapor Sampling with Summa

H&P Project #: RC102016-SP7/CAN
Date: 10/20/16
Site Address: 505-511 W. 31st Los Angeles, CA
Page: 1 of 1
Consultant: Rincon
H&P Rep(s): T. Taylor
Consultant Rep(s): Dale
Reviewed: DB
Scanned: DB

**Equipment Info**
Inline Gauge ID#: NA
Pump ID#: 035

**Purge Volume Information**
PV Amount: 3PV
PV Includes: ☒ Tubing ☒ Sand 40% ☒ Dry Bent 50%

**Leak Check Compound**
A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other:

| | Sample and Summa Information | | | | | | | Probe Specs | | | | | | | Purge & Collection Information | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Point ID | Summa ID # | Sample Kit ID # | Start Time | Initial Vac (" Hg) | End / Sample Time | End Vac (" Hg) | Probe Depth (ft) | Tubing Length (ft) | Tubing OD (in.) | Sand Ht (in.) | Sand Dia (in.) | Dry Bent. Ht (in.) | Dry Bent. Dia (in.) | Shut In Test 60 sec (✓) | Leak Check (✓) | Purge Vol (mL) | Purge Flow Rate (mL/min) | Pump Time (min:sec) | Sample Flow Rate (mL/min) | ProbeVac ☐ Hg ☒ $H_2O$ |
| 1 | ~~SV1-20~~ | | | | | | | ~~20~~ | ~~22~~ | ~~1/8~~ | ~~12~~ | ~~1.5~~ | ~~6~~ | ~~1.5~~ | | | ~~740~~ | ~~<200~~ | | | |
| 2 | ~~SV1-10~~ | | | | | | | ~~10~~ | ~~12~~ | ~~1/8~~ | ~~12~~ | ~~1.5~~ | ~~12~~ | ~~1.5~~ | | | ~~972~~ | | | | |
| 3 | ~~SV1-5~~ | | | | | | | ~~5~~ | ~~7~~ | ~~1/8~~ | ~~12~~ | ~~1.5~~ | ~~12~~ | ~~1.5~~ | | | ~~958~~ | | | | |
| 4 | SV1-5 | 507 | 150 | 1013 | -28 | 1014 | 0 | 5 | 7 | 1/8 | 12 | 1.5 | 12 | 1.5 | ✓ | ✓ | 958 | <200 | 4:47 | <200 | -2 |
| 5 | SV2-5 | 514 | 068 | 1045 | -27 | 1046 | 0 | 5 | 7 | 1/8 | 12 | 1.5 | 12 | 1.5 | ✓ | ✓ | 958 | <200 | 4:47 | <200 | -4 |
| 6 | SV3-5 | 524 | 261 | 1119 | -30+ | 1121 | 0 | 5 | 7 | 1/8 | 12 | 1.5 | 12 | 1.5 | ✓ | ✓ | 958 | <200 | 4:47 | <200 | -4 |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

H&P Mobile Geochemistry Inc.



# Log Sheet: Landtec Meter

H&P Project #: RC102116 - Tech/LAN
Date: 10/21/16
Site Address: 505 - 511 W 31st St Los Angeles, CA
Page: 1 of 1
Consultant: Rincon
H&P Rep(s): T. Taylor
Reviewed: DB
Consultant Rep(s): Dale (not on site today 10/21)
Scanned: DB

## Landtec GEM 2000 Calibration

| | Time | $CH_4$ (%) | $CO_2$ (%) | $O_2$ (%) | $N_2$ (%) | Barometric Pressure ("Hg) |
|---|---|---|---|---|---|---|
| *Calibration Standard* | n/a | 50 | 35 | 4 | 15 | n/a |
| *Opening Calibration* | 0955 | 46.4 | 39.3 | 3.4 | 14.4 | 29.62 |
| *Closing Calibration* | 1144 | 46.0 | 38.0 | 3.6 | 14.8 | 29.58 |
| *Acceptable Range* | n/a | 45.5 - 54.5 | 30.6 - 39.4 | 2.5 - 5.5 | 8.8 - 21.2 | n/a |

## LADBS Certification Info

Methane Testing License #10231
Instrument: Landtec GEM 2000
Instrument Accuracy: ±3% $CH_4$
Landtec Equipment ID#: 018
Manometer ID#: 020

| | Point ID | Sample Time | Probe Depth (ft) | $CH_4$ (%) | $CO_2$ (%) | $O_2$ (%) | $N_2$ (%) | Barometric Pressure ("Hg) | Probe Pressure ("$H_2O$) | Field Notes PV / Pump Time / "$H_2O$ |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SV1-5 | 1024 | 5 | 00.0 | 00.2 | 19.2 | 80.4 | 29.61 | 0.00 | PV: 958/4:47/-3" H2O |
| 2 | SV1-10 | 1026 | 10 | 00.0 | 00.3 | 19.1 | 80.5 | 29.61 | 0.00 | 972/4:52/-4" H2O |
| 3 | SV1-20 | 1030 | 20 | 00.0 | 00.7 | 18.8 | 80.3 | 29.61 | 0.00 | 740/3:40/-5.5" H2O |
| 4 | SV2-5 | 1055 | 5 | 00.0 | 00.2 | 19.4 | 80.4 | 29.60 | 0.00 | 958/4:47/-2" H2O |
| 5 | SV2-10 | 1100 | 10 | 00.0 | 00.3 | 19.2 | 80.3 | 29.60 | 0.00 | 972/4:52/-3" H2O |
| 6 | SV2-20 | 1104 | 20 | 00.0 | 00.7 | 19.0 | 80.3 | 29.60 | 0.00 | 740/3:40/-7" H2O |
| 7 | SV3-5 | 1126 | 5 | 00.0 | 00.8 | 18.8 | 80.2 | 29.58 | 0.00 | 958/4:47/-2" H2O |
| 8 | SV3_10 | 1131 | 10 | 00.0 | 1.1 | 18.6 | 80.2 | 29.58 | 0.00 | 972/4:52/-4.5" H2O |
| 9 | SV3-20 | 1137 | 20 | 00.0 | 1.3 | 18.5 | 80.2 | 29.58 | 0.00 | 740/3:40/-6" H2O |
| 10 | Ø | | | | | | | | | |

Site Notes (e.g. weather, visitors, scope deviations, health & safety issues, etc.):

# FORM 1 - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

## Part 1: Certification Sheet

Site Address: 505, 511 & 515 W 31st street
Legal Description: Tract: 512 Lot: 0009/0010/0011 Block: 302
Building Use: residential/vacant

Architect's, Engineer's or Geologist's Stamp:

REGISTERED GEOLOGIST
WALTER E. HAMANN
No. EG 1635
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

Name of Architect, Engineer, or Geologist: Rincon Consultants
Mailing Address: 180 N Ashwood Ave
Ventura, CA 93003
Telephone: 805.644.4455

Name of Testing Laboratory: H&P Mobile Geochemistry
City Test Lab License #: 10231
Telephone: 760.804.9678

I hereby certify that I have tested the above site for the purpose of methane mitigation and that all procedures were conducted by a City of Los Angeles licensed testing agency in conformity with the requirements of the LADBS Information Bulletin P/BC 2002-101. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the architect, engineer or geologist whose signature is affixed thereon.

Signed: _____ date Nov 8, 2016

Required Data:

- Project is in the (Methane Zone) or (Methane Buffer Zone).
- Depth of ground water observed during testing: n/A feet below the Impervious Membrane.
- Depth of Historical High Ground Water Table Elevation*: 7100 feet below the Impervious Membrane.
- Design Methane Concentration**: 0.0 parts per million in volume (ppmv).
- Design Methane Pressure***: 0.0 inches of water column.
- Site Design Level: (Level I, Level II, Level III, Level IV, Level V) with _____ inches of water column.

De-watering:

- De-watering ( is ) ( is not ) required per Section 91.7104.3.7.
- Pump discharge rate _____ cubic feet per minute per reference geology or soil report: _____ dated _____.

Additional Investigation:

- Additional investigation ( was ) ( was not ) conducted.

Latest Grading on Site:

- Date of last grading on site (was) (was not) more than 30 days before Site Testing.
- See Attached explanation of the effect on soil gas survey results by grading operations.

Notes:

* Historical High Ground Water Table Elevation shall mean the highest recorded elevation of ground water table based on historical records and field investigations as determined by the engineer for the methane mitigation system.

** Design Methane Concentration shall mean the highest recorded measured methane concentration from either Shallow Soil Gas Test or any Gas Probe Set on the site.

*** Design Methane Pressure shall mean the highest total pressure measured from any Gas Probe Set on the site.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. For efficient handling of information internally and in the internet, conversion to this new format of code related and administrative information bulletins including MGD and RGA that were previously issued will allow flexibility and timely distribution of information to the public.

# FORM 1 (CONTINUED) - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

## Part 2: Test Data - Shallow Soil Gas Test and Gas Probe Test

Site Address: 505-511 W 31st St Los Angeles, CA

Description of Gas Analysis Instrument(s):

Instrument Name and Model: Gamtec GEM 2000 Instrument Accuracy: ± 3% CH4 ppmv.

City of Los Angeles Testing License #: 10231

| Date | Time | Probe Set # | Concentration (ppmv) | Pressure (inches water column) | Probe Depth (feet) | Description / Probe Location |
|---|---|---|---|---|---|---|
| 10/21 | 1024 | SV1-5 | 00.0 | 0.00 | 5 | |
| | 1026 | SV1-10 | 00.0 | 0.00 | 10 | |
| | 1036 | SV1-20 | 00.0 | 0.00 | 20 | |
| | 1055 | SV2-5 | 00.0 | 0.00 | 5 | |
| | 1100 | SV2-10 | 00.0 | 0.00 | 10 | |
| | 1104 | SV2-20 | 00.0 | 0.00 | 20 | |
| | 1126 | SV3-5 | 00.0 | 0.00 | 5 | |
| | 1131 | SV3-10 | 00.0 | 0.00 | 10 | |
| | 1137 | SV3-20 | 00.0 | 0.00 | 20 | |

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. For efficient handling of information internally and in the internet, conversion to this new format of code related and administrative information bulletins including MGD and RGA that were previously issued will allow flexibility and timely distribution of information to the public.

# Appendix F

Soils Report

BOARD OF
BUILDING AND SAFETY
COMMISSIONERS

VAN AMBATIELOS
PRESIDENT

E. FELICIA BRANNON
VICE PRESIDENT

JOSELYN GEAGA-ROSENTHAL
GEORGE HOVAGUIMIAN
JAVIER NUNEZ

# CITY OF LOS ANGELES

CALIFORNIA

ERIC GARCETTI
MAYOR

DEPARTMENT OF
BUILDING AND SAFETY
201 NORTH FIGUEROA STREET
LOS ANGELES, CA 90012

FRANK M. BUSH
GENERAL MANAGER
SUPERINTENDENT OF BUILDING

OSAMA YOUNAN, P.E.
EXECUTIVE OFFICER

## SOILS REPORT APPROVAL LETTER

January 31, 2017

LOG # 96446
SOILS/GEOLOGY FILE - 2

Canfield Development
10474 Santa Monica Blvd., Suite 402
Los Angeles, CA 90025

TRACT: Stewart's Nursery Tract (MR 19-56)
LOT(S): 31 / 32 / 33 (Arb 1)
LOCATION: 505 / 511 / 517 W. 31st Street

| CURRENT REFERENCE REPORT/LETTER(S) | REPORT No. | DATE(S) OF DOCUMENT | PREPARED BY |
|---|---|---|---|
| Soils Report | 5266 | 01/11/2017 | GeoConcepts, Inc. |

The Grading Division of the Department of Building and Safety has reviewed the referenced report that provides recommendations for the proposed construction of a 7-story apartment building with 1-level subterranean parking. Excavations up to 14 feet in height will be required for the subgrade parking. The site is relatively level.

Nine test pits and four borings were excavated to a maximum depth of 41 feet. The earth materials at the subsurface exploration locations consist of up to 2 feet of uncertified fill underlain by alluvium. Groundwater was not encountered to the maximum depths explored and historic high groundwater is at about 60 feet beneath the ground surface.

The consultants recommend to support the proposed apartment building on conventional foundations bearing in native undisturbed soils.

The referenced report is acceptable, provided the following conditions are complied with during site development:

(Note: Numbers in parenthesis ( ) refer to applicable sections of the 2014 City of LA Building Code. P/BC numbers refer the applicable Information Bulletin. Information Bulletins can be accessed on the internet at LADBS.ORG.)

1. Approval shall be obtained from the Department of Public Works, Bureau of Engineering, Development Services and Permits Program for the proposed removal of support and/or retaining of slopes adjoining to public way. (3307.3.2)

   201 N. Figueroa Street 3rd Floor, LA (213) 482-7045

2. In the event tie-back anchors are used for shoring purposes, then provide a notarized letter from all adjoining property owners allowing tie-back anchors on their property. (7006.6)

3. The soils engineer shall review and approve the detailed plans prior to issuance of any permits. This approval shall be by signature on the plans that clearly indicates the soils engineer has reviewed the plans prepared by the design engineer and that the plans include the recommendations contained in the soils reports. (7006.1)

4. All recommendations of the report(s) that are in addition to or more restrictive than the conditions contained herein shall be incorporated into the plans.

5. A copy of the subject and appropriate referenced reports and this approval letter shall be attached to the District Office and field set of plans. Submit one copy of the above reports to the Building Department Plan Checker prior to issuance of the permit. (7006.1)

6. A grading permit shall be obtained for all structural fill and retaining wall backfill. (106.1.2)

7. All man-made fill shall be compacted to a minimum 90 percent of the maximum dry density of the fill material per the latest version of ASTM D 1557. Where cohesionless soil having less than 15 percent finer than 0.005 millimeters is used for fill, it shall be compacted to a minimum of 95 percent relative compaction based on maximum dry density (D1556). Placement of gravel in lieu of compacted fill is allowed only if complying with Section 91.7011.3 of the Code. (7011.3)

8. Existing uncertified fill shall not be used for support of footings, concrete slabs or new fill. (1809.2, 7011.3)

9. Drainage in conformance with the provisions of the Code shall be maintained during and subsequent to construction. (7013.12)

10. Grading shall be scheduled for completion prior to the start of the rainy season, or detailed temporary erosion control plans shall be filed in a manner satisfactory to the Grading Division of the Department and the Department of Public Works, Bureau of Engineering, B-Permit Section, for any grading work in excess of 200 cu yd. (7007.1)

201 N. Figueroa Street 3rd Floor, LA (213) 482-7045

11. All loose foundation excavation material shall be removed prior to commencement of framing. (7005.3)

12. The applicant is advised that the approval of this report does not waive the requirements for excavations contained in the State Construction Safety Orders enforced by the State Division of Industrial Safety. (3301.1)

13. Temporary excavations that remove lateral support to the public way, adjacent property, or adjacent structures shall be supported by shoring, as recommended. Note: Lateral support shall be considered to be removed when the excavation extends below a plane projected downward at an angle of 45 degrees from the bottom of a footing of an existing structure, from the edge of the public way or an adjacent property. (3307.3.1)

14. Prior to the issuance of any permit which authorizes an excavation where the excavation is to be of a greater depth than are the walls or foundation of any adjoining building or structure and located closer to the property line than the depth of the excavation, the owner of the subject site shall provide the Department with evidence that the adjacent property owner has been given a 30-day written notice of such intent to make an excavation. (3307.1)

15. The soils engineer shall review and approve the shoring plans prior to issuance of the permit. (3307.3.2)

16. Prior to the issuance of the permits, the soils engineer and/or the structural designer shall evaluate the surcharge loads used in the report calculations for the design of the retaining walls and shoring. If the surcharge loads used in the calculations do not conform to the actual surcharge loads, the soil engineer shall submit a supplementary report with revised recommendations to the Department for approval.

17. Unsurcharged temporary excavation may be cut vertical up to 4 feet in alluvium, as recommended.

18. Shoring shall be designed for the lateral earth pressures specified in the section titled "Lateral Pressures" starting on page 16 of the 01/11/2017 report; all surcharge loads shall be included into the design. Total lateral load on shoring piles shall be determined by multiplying the recommended EFP by the pile spacing.

19. Where a structure is within a 1:1 plane projected up from the base of the excavation, shoring shall be designed for a maximum lateral deflection of ½ inch, or to a lower deflection determined by the consultant that does not present any potential hazard to the adjacent structure.

20. A shoring monitoring program shall be implemented to the satisfaction of the soils engineer.

21. All foundations shall derive entire support from native undisturbed soils, as recommended and approved by the soils engineer by inspection.

22. The seismic design shall be based on a Site Class D as recommended. All other seismic design parameters shall be reviewed by LADBS building plan check.

23. Retaining walls with a level backfill shall be designed for the lateral earth pressures specified in the section titled "Retaining Walls" starting on page 19 of the 01/11/2017 report. All surcharge loads shall be included into the design.

24. Retaining walls higher than 6 feet shall be designed for lateral earth pressure due to earthquake motions as specified on page 21 of the 01/11/2017 report (1803.5.12).

25. All retaining walls shall be provided with a standard surface backdrain system and all drainage shall be conducted to the street in an acceptable manner and in a non-erosive device. (7013.11)

26. With the exception of retaining walls designed for hydrostatic pressure, all retaining walls shall be provided with a subdrain system to prevent possible hydrostatic pressure behind the wall. Prior to issuance of any permit, the retaining wall subdrain system recommended in the soil report shall be incorporated into the foundation plan which shall be reviewed and approved by the soils engineer of record. (1805.4)

27. Installation of the subdrain system shall be inspected and approved by the soils engineer of record and the City grading/building inspector. (108.9)

28. Basement walls and floors shall be waterproofed/damp-proofed with an L.A. City approved "Below-grade" waterproofing/damp-proofing material with a research report number. (104.2.6)

29. Prefabricated drainage composites (Miradrain, Geotextiles) may be only used in addition to traditionally accepted methods of draining retained earth.

30. The structure shall be connected to the public sewer system. (P/BC 2014-027)

31. All roof and pad drainage shall be conducted to the street in an acceptable manner. (7013.10)

32. All concentrated drainage shall be conducted in an approved device and disposed of in a manner approved by the LADBS. (7013.10)

33. Any recommendations prepared by the geologist and/or the soils engineer for correction of geological hazards found during grading shall be submitted to the Grading Division of the Department for approval prior to utilization in the field. (7008.2, 7008.3)

34. The soils engineer shall inspect all excavations to determine that conditions anticipated in the report have been encountered and to provide recommendations for the correction of hazards found during grading. (7008 & 1705.6)

35. Prior to the pouring of concrete, a representative of the consulting soils engineer shall inspect and approve the footing excavations. He/She shall post a notice on the job site for the LADBS Building Inspector and the Contractor stating that the work so inspected meets the conditions of the report, but that no concrete shall be poured until the City Building Inspector has also inspected and approved the footing excavations. A written certification to this effect shall be filed with the Grading Division of the Department upon completion of the work. (108.9 & 7008.2)

36. Prior to excavation, an initial inspection shall be called with LADBS Inspector at which time sequence of construction, shoring, protection fences and dust and traffic control will be scheduled. (108.9.1)

37. Installation of shoring, underpinning, slot cutting excavations and/or pile installation shall be performed under the inspection and approval of the soils engineer and deputy grading inspector. (1705.6)

38. The installation and testing of tie-back anchors shall comply with the recommendations included in the report or the standard sheets titled "Requirement for Tie-back Earth Anchors", whatever is more restrictive. (Research Report #23835)

39. Prior to the placing of compacted fill, a representative of the soils engineer shall inspect and approve the bottom excavations. He/She shall post a notice on the job site for the City Grading Inspector and the Contractor stating that the soil inspected meets the conditions of the report, but that no fill shall be placed until the LADBS Grading Inspector has also inspected and approved the bottom excavations. A written certification to this effect shall be included in the final compaction report filed with the Grading Division of the Department. All fill shall be placed under the inspection and approval of the soils engineer. A compaction report together with the approved soil report and Department approval letter shall be submitted to the Grading Division of the Department upon completion of the compaction. In addition, an Engineer's Certificate of Compliance with the legal description as indicated in the grading permit and the permit number shall be included. (7011.3)

GLEN RAAD
Geotechnical Engineer I

Log No. 96446
213-482-0480

cc: GeoConcepts, Inc., Project Consultant
LA District Office

# Appendix G

Noise Study

-  Freq Weight : A
-  Time Weight : FAST
-  Level Range : 40-100
-  Max dB : 99.9 - 2009/04/07 09:10:27
-  Level Range : 40-100
-  SEL : 102.5
-  Leq : 73.0
-

| No.s | Date Time | (dB) |
|---|---|---|
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| 2 | 2009/04/07 09:02:58 | 67.8 |
| 3 | 2009/04/07 09:03:00 | 65.0 |
| 4 | 2009/04/07 09:03:02 | 61.4 |
| 5 | 2009/04/07 09:03:04 | 62.7 |
| 6 | 2009/04/07 09:03:06 | 63.9 |
| 7 | 2009/04/07 09:03:08 | 62.3 |
| 8 | 2009/04/07 09:03:10 | 64.9 |
| 9 | 2009/04/07 09:03:12 | 69.7 |
| 10 | 2009/04/07 09:03:14 | 67.5 |
| 11 | 2009/04/07 09:03:16 | 65.6 |
| 12 | 2009/04/07 09:03:18 | 68.3 |
| 13 | 2009/04/07 09:03:20 | 71.9 |
| 14 | 2009/04/07 09:03:22 | 76.1 |
| 15 | 2009/04/07 09:03:24 | 70.5 |
| 16 | 2009/04/07 09:03:26 | 70.0 |
| 17 | 2009/04/07 09:03:28 | 65.5 |
| 18 | 2009/04/07 09:03:30 | 64.9 |
| 19 | 2009/04/07 09:03:32 | 67.5 |
| 20 | 2009/04/07 09:03:34 | 69.6 |
| 21 | 2009/04/07 09:03:36 | 67.2 |
| 22 | 2009/04/07 09:03:38 | 63.6 |
| 23 | 2009/04/07 09:03:40 | 65.6 |
| 24 | 2009/04/07 09:03:42 | 68.7 |
| 25 | 2009/04/07 09:03:44 | 70.0 |
| 26 | 2009/04/07 09:03:46 | 69.2 |
| 27 | 2009/04/07 09:03:48 | 71.4 |
| 28 | 2009/04/07 09:03:50 | 68.3 |
| 29 | 2009/04/07 09:03:52 | 67.5 |
| 30 | 2009/04/07 09:03:54 | 67.6 |
| 31 | 2009/04/07 09:03:56 | 65.8 |
| 32 | 2009/04/07 09:03:58 | 63.8 |
| 33 | 2009/04/07 09:04:00 | 65.0 |
| 34 | 2009/04/07 09:04:02 | 66.3 |
| 35 | 2009/04/07 09:04:04 | 69.4 |
| 36 | 2009/04/07 09:04:06 | 68.9 |
| 37 | 2009/04/07 09:04:08 | 69.5 |
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| 41 | 2009/04/07 09:04:16 | 76.2 |
| 42 | 2009/04/07 09:04:18 | 69.6 |
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| 45 | 2009/04/07 09:04:24 | 72.6 |
| 46 | 2009/04/07 09:04:26 | 69.4 |
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| 53 | 2009/04/07 09:04:40 | 67.7 |
| 54 | 2009/04/07 09:04:42 | 68.0 |
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| 57 | 2009/04/07 09:04:48 | 66.5 |
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| 189 | 2009/04/07 | 09:09:12 | 63.6 |
| 190 | 2009/04/07 | 09:09:14 | 63.3 |
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-  Level Range : 40-100
-  SEL : 91.1
-  Leq : 61.6
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-  Time Weight : FAST
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-  Max dB : 83.7 - 2009/04/07 09:48:29
-  Level Range : 40-100
-  SEL : 102.5
-  Leq : 73.0
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| 75 | 2009/04/07 09:42:02 | 74.1 |
| 76 | 2009/04/07 09:42:04 | 72.3 |
| 77 | 2009/04/07 09:42:06 | 70.4 |
| 78 | 2009/04/07 09:42:08 | 69.7 |
| 79 | 2009/04/07 09:42:10 | 69.0 |
| 80 | 2009/04/07 09:42:12 | 69.1 |
| 81 | 2009/04/07 09:42:14 | 68.8 |
| 82 | 2009/04/07 09:42:16 | 68.5 |
| 83 | 2009/04/07 09:42:18 | 68.8 |
| 84 | 2009/04/07 09:42:20 | 68.6 |
| 85 | 2009/04/07 09:42:22 | 68.6 |

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| 86 | 2009/04/07 09:42:24 | 68.3 |
| 87 | 2009/04/07 09:42:26 | 68.2 |
| 88 | 2009/04/07 09:42:28 | 69.1 |
| 89 | 2009/04/07 09:42:30 | 73.3 |
| 90 | 2009/04/07 09:42:32 | 69.3 |
| 91 | 2009/04/07 09:42:34 | 73.8 |
| 92 | 2009/04/07 09:42:36 | 70.0 |
| 93 | 2009/04/07 09:42:38 | 68.0 |
| 94 | 2009/04/07 09:42:40 | 68.6 |
| 95 | 2009/04/07 09:42:42 | 69.3 |
| 96 | 2009/04/07 09:42:44 | 76.9 |
| 97 | 2009/04/07 09:42:46 | 75.1 |
| 98 | 2009/04/07 09:42:48 | 73.7 |
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| 150 | 2009/04/07 09:44:32 | 75.3 |
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| 279 | 2009/04/07 | 09:48:50 | 78.0 |
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| 285 | 2009/04/07 | 09:49:02 | 73.4 |
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| 287 | 2009/04/07 | 09:49:06 | 70.7 |
| 288 | 2009/04/07 | 09:49:08 | 72.2 |
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| 301 | 2009/04/07 | 09:49:34 | 71.1 |
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| 303 | 2009/04/07 | 09:49:38 | 74.5 |
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| 311 | 2009/04/07 | 09:49:54 | 74.0 |
| 312 | 2009/04/07 | 09:49:56 | 73.9 |
| 313 | 2009/04/07 | 09:49:58 | 72.4 |
| 314 | 2009/04/07 | 09:50:00 | 70.8 |
| 315 | 2009/04/07 | 09:50:02 | 73.2 |
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| 383 | 2009/04/07 | 09:52:18 | 74.8 |
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| 447 | 2009/04/07 | 09:54:26 | 72.6 |
| 448 | 2009/04/07 | 09:54:28 | 75.1 |
| 449 | 2009/04/07 | 09:54:30 | 75.4 |
| 450 | 2009/04/07 | 09:54:32 | 73.9 |

# HEAVY EQUIPMENT NOISE IMPACT ESTIMATION USC STUDENT HOUSING

Scenario: Demolition
Receptor Location: Nearest Residence

| Noise Source | Ave. Maximum SPL @ 50 ft., dBA | Number | Percentage of Workday Hours In Use | Effective Use Factor * | Distance, Ft. | Leq, dBA |
|---|---|---|---|---|---|---|
| Backhoe [1] | 80 | 1 | 0.5 | 0.5 | 100 | 68 |
| Front End Loader [3] | 79 | 1 | 0.5 | 0.5 | 100 | 67 |
| Saw [3] | 70 | 1 | 0.5 | 0.5 | 100 | 58 |
| Dozer [1] | 85 | 1 | 0.5 | 0.5 | 100 | 73 |

| | | |
|---|---|---|
| **TOTAL Leq DURING NORMAL C** | **75** | **dBA** |
| Daytime Ambient without Equipme | 62 | dBA |
| Nighttime Ambient without Equipm | 45 | dBA |
| Daytime Hours Operating: | 8 | |
| Evening Hours Operating: | 0 | |
| Nighttime Hours Operating: | 0 | |
| *Combined Daytime Hourly Leq:* | 75 | *dBA* |
| *Combined Nighttime Hourly Leq:* | 45 | *dBA* |

Distance attenuation assumed at: 6 dBA per doubling of distance
Notes: #N/A = Not Applicable

Distance attenuation assumed at: 6 dBA per doubling of distance
Notes: #N/A = Not Applicable

Note: CNEL calculations assume a decrease in ambient evening noise levels over the assumed daytime level, nighttime ambient noise levels are 45 dBA Leq as stated in the Municipal Code

*Assumed scarifier for forklift noise level, and Backhoe for Bobcat, pettibone, and skip loader noise level

*Assumed percentage of time that equipment is operating at near maximum sound level.

*Equipment type per applicant supplied information

Equipment Use Source:

[1] Federal Railroad Administration (FRA) (2012), *High Speed Ground Transportation Noise and Vibration Impact Assessment Manual*

[2] Federal Transit Administration (FTA) (2006), Transit Noise and Vibration Assessment

[3] Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook. Accessed at https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/*

# HEAVY EQUIPMENT NOISE IMPACT ESTIMATION USC STUDENT HOUSING

Scenario: Site Preparation
Receptor Location: Nearest Residence

| Noise Source | Ave. Maximum SPL @ 50 ft., dBA | Number | Percentage of Workday Hours In Use | Effective Use Factor * | Distance, Ft. | Leq, dBA |
|---|---|---|---|---|---|---|
| Backhoe [1] | 80 | 1 | 0.5 | 0.5 | 100 | 68 |
| Grader [1] | 85 | 1 | 0.5 | 0.5 | 100 | 76 |
| Front End Loader [3] | 79 | 1 | 0.5 | 0.5 | 100 | 67 |

| | | |
|---|---|---|
| **TOTAL Leq DURING NORMAL OPERATIONS:** | **77** | **dBA** |
| Daytime Ambient without Equipment Operation: | 62 | dBA |
| Nighttime Ambient without Equipment Operation: | 45 | dBA |
| Daytime Hours Operating: | 8 | |
| Evening Hours Operating: | 0 | |
| Nighttime Hours Operating: | 0 | |
| *Combined Daytime Hourly Leq:* | 77 | *dBA* |
| *Combined Nighttime Hourly Leq:* | 45 | *dBA* |

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

Note: CNEL calculations assume a decrease in ambient evening noise levels over the assumed daytime level, nighttime ambient noise levels are 45 dBA Leq as stated in the Municipal Code

*Assumed scarifier for forklift noise level, and Backhoe for Bobcat, pettibone, and skip loader noise level

*Assumed percentage of time that equipment is operating at near maximum sound level.

*Equipment type per applicant supplied information

Equipment Use Source:

[1] Federal Railroad Administration (FRA) (2012), *High Speed Ground Transportation Noise and Vibration Impact Assessment Manual*

[2] Federal Transit Administration (FTA) (2006), Transit Noise and Vibration Assessment

[3] Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook. Accessed at https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/*

# HEAVY EQUIPMENT NOISE IMPACT ESTIMATION USC STUDENT HOUSING

Scenario: Project Grading
Receptor Location: Nearest Residence

| Noise Source | Ave. Maximum SPL @ 50 ft., dBA | Number | Percentage of Workday Hours In Use | Effective Use Factor * | Distance, Ft. | Leq, dBA |
|---|---|---|---|---|---|---|
| Excavator [3] | 81 | 1 | 0.5 | 0.5 | 100 | 69 |
| Front End Loader [3] | 79 | 1 | 0.5 | 0.5 | 100 | 67 |
| Dozer [1] | 85 | 1 | 0.5 | 0.5 | 100 | 73 |
| Backhoe [1] | 80 | 1 | 0.5 | 0.5 | 100 | 68 |

**TOTAL Leq DURING NORMAL OPERATIONS: 76 dBA**

| | | |
|---|---|---|
| Daytime Ambient without Equipment Operation: | 62 | dBA |
| Nighttime Ambient without Equipment Operation: | 45 | dBA |
| Daytime Hours Operating: | 8 | |
| Evening Hours Operating: | 0 | |
| Nighttime Hours Operating: | 0 | |
| *Combined Daytime Hourly Leq:* | 76 | *dBA* |
| *Combined Nighttime Hourly Leq:* | 45 | *dBA* |

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

Note: CNEL calculations assume a decrease in ambient evening noise levels over the assumed daytime level, nighttime ambient noise levels are 45 dBA Leq as stated in the Municipal Code

*Assumed scarifier for forklift noise level, and Backhoe for Bobcat, pettibone, and skip loader noise level

*Assumed percentage of time that equipment is operating at near maximum sound level.

*Equipment type per applicant supplied information

Equipment Use Source:

[1] Federal Railroad Administration (FRA) (2012), *High Speed Ground Transportation Noise and Vibration Impact Assessment Manual*

[2] Federal Transit Administration (FTA) (2006), Transit Noise and Vibration Assessment

[3] Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook. Accessed at https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/*

## HEAVY EQUIPMENT NOISE IMPACT ESTIMATION USC STUDENT HOUSING

Scenario: Building Construction
Receptor Location: Nearest Residence

| Noise Source | Ave. Maximum SPL @ 50 ft., dBA | Number | Percentage of Workday Hours In Use | Effective Use Factor * | Distance, Ft. | Leq, dBA |
|---|---|---|---|---|---|---|
| Backhoe [1] | 80 | 1 | 0.5 | 0.5 | 100 | 68 |
| Front End Loader [3] | 79 | 1 | 0.5 | 0.5 | 100 | 67 |
| Crane (mobile) [1] | 83 | 1 | 0.5 | 0.5 | 100 | 68 |
| Forklift, 40 HP [3] | 82 | 1 | 0.5 | 0.5 | 100 | 67 |

**TOTAL Leq DURING NORMAL OPERATIONS: 74 dBA**

| | | |
|---|---|---|
| Daytime Ambient without Equipment Operation: | 62 | dBA |
| Nighttime Ambient without Equipment Operation: | 45 | dBA |
| Daytime Hours Operating: | 8 | |
| Evening Hours Operating: | 0 | |
| Nighttime Hours Operating: | 0 | |
| *Combined Daytime Hourly Leq:* | 74 | *dBA* |
| *Combined Nighttime Hourly Leq:* | 45 | *dBA* |

Distance attenuation assumed at: 6 dBA per doubling of distance
Notes: #N/A = Not Applicable
Note: CNEL calculations assume a decrease in ambient evening noise levels over the assumed daytime level, nighttime ambient noise levels are 45 dBA Leq as stated in the Municipal Code

*Assumed scarifier for forklift noise level, and Backhoe for Bobcat, pettibone, and skip loader noise level
*Assumed percentage of time that equipment is operating at near maximum sound level.
*Equipment type per applicant supplied information

Equipment Use Source:
[1] Federal Railroad Administration (FRA) (2012), *High Speed Ground Transportation Noise and Vibration Impact Assessment Manual*
[2] Federal Transit Administration (FTA) (2006), Transit Noise and Vibration Assessment
[3] Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook. Accessed at https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/*

## HEAVY EQUIPMENT NOISE IMPACT ESTIMATION USC STUDENT HOUSING
## U

Scenario: Architectural Coating
Receptor Location: Nearest Residence

| Noise Source | Ave. Maximum SPL @ 50 ft., dBA | Number | Percentage of Workday Hours In Use | Effective Use Factor * | Distance, Ft. | Leq, dBA |
|---|---|---|---|---|---|---|
| Air Compressor [3] | 81 | 1 | 0.5 | 0.5 | 100 | 69 |

**TOTAL Leq DURING NORMAL OPERATIONS: 69 dBA**

| | | |
|---|---|---|
| Daytime Ambient without Equipment Operation: | 62 | dBA |
| Nighttime Ambient without Equipment Operation: | 45 | dBA |
| Daytime Hours Operating: | 8 | |
| Evening Hours Operating: | 0 | |
| Nighttime Hours Operating: | 0 | |
| *Combined Daytime Hourly Leq:* | 70 | *dBA* |
| *Combined Nighttime Hourly Leq:* | 45 | *dBA* |

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

Note: CNEL calculations assume a decrease in ambient evening noise levels over the assumed daytime level, nighttime ambient noise levels are 45 dBA Leq as stated in the Municipal Code

*Assumed scarifier for forklift noise level, and Backhoe for Bobcat, pettibone, and skip loader noise level

* Assumed percentage of time that equipment is operating at near maximum sound level.

* Equipment type per applicant supplied information

Equipment Use Source:

[1] Federal Railroad Administration (FRA) (2012), *High Speed Ground Transportation Noise and Vibration Impact Assessment Manual*

[2] Federal Transit Administration (FTA) (2006), Transit Noise and Vibration Assessment

[3] Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook. Accessed at https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/*

# Appendix H

Traffic Study

*DRAFT*

**MEMORANDUM**

**TO:** Jared Brenner-Goldstein, Canfield Development

**FROM:** Jonathan Chambers, P.E.

**DATE:** January 4, 2017

**RE:** Traffic Impact Analysis for the
504-517 31st Street Student Housing Project
Los Angeles, California **Ref:** J1516

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Gibson Transportation Consulting, Inc. (GTC) was asked to conduct a traffic impact analysis for the above-referenced project. This memorandum summarizes the analysis.

## PROJECT DESCRIPTION

Canfield Development proposes to develop a seven-story student housing building located at 504-517 31st Street (Project). The Project would include a total of 49 apartment units, including three two-bedroom units, 22 three-bedroom units and 24 four-bedroom units. Each unit type is intended to accommodate four students (using single- or double-occupancy bedrooms), and therefore, could accommodate as many as 196 students. The Project would include a subterranean parking level and an at-grade parking level below six floors of residential units. In total, it would provide 78 vehicular parking spaces for residents. It would also provide 278 bicycle parking stalls. The Project Site currently consists of a vacant parcel and a parcel containing an active four-unit apartment building.

The two parking levels would have separate access points, and there would be no internal ramping between the levels. The subterranean level, with approximately 44 spaces, would access the alley on the west border of the Project Site. The at-grade level, with approximately 34 spaces, would access 31st Street on the southern border of the Project Site. The Project Site plan is shown in Figure 1. It is expected to be completed in year 2019.

This segment of 31st Street is a short local street passing between Figueroa Street and Flower Street. Figueroa Street is a high-volume corridor that is developed with primarily student-serving commercial and residential uses. Flower Street provides one-way traffic in the southbound direction and little direct access to adjacent parcels. East of Flower Street is Interstate 110 (I-110), which is generally below-grade level through the Study Area. As noted above, a narrow alley travels north and south between 30th Street and 31st Street adjacent to the Project Site.

The Project Site is located less than one quarter mile from the University of Southern California (USC) University Park Campus, and most residents would walk or bicycle to and from USC. Additionally, the Project Site is located between Figueroa Street and Flower Street, both of which provide multiple public transit options. The Los Angeles County Metropolitan Transportation Authority (Metro) operates the Expo Line light rail train, which runs along Flower Street and provides service between Santa Monica, Culver City, and downtown Los Angeles. It provides a station at Jefferson Boulevard, less than 1,000 feet from the Project Site.

## STUDY SCOPE

The scope of intersection analysis for this study was developed in consultation with the Los Angeles Department of Transportation (LADOT). The base assumptions and technical methodologies (i.e., trip generation, study locations, analysis methodology, etc.) were identified as part of the study approach and were outlined in a Memorandum of Understanding (MOU) dated January 3, 2017, which was reviewed and approved by LADOT. A copy of the signed MOU is provided in Attachment A.

As shown in Figure 2, five signalized intersections in the vicinity of the Project site were selected for detailed traffic analysis:

1. Figueroa Street & 30th Street
2. Flower Street & 30th Street
3. Figueroa Street & Jefferson Boulevard
4. Flower Street & Jefferson Boulevard
5. Figueroa Street & 32nd Street

Morning (7:00 AM to 10:00 AM) and afternoon (3:00 PM to 6:00 PM) peak period turning movement counts were collected at the five study intersections in November, 2016 and are provided in Attachment B. The study intersections were analyzed under the following scenarios:

1. Existing (Year 2016) Conditions
2. Existing with Project (Year 2016) Conditions
3. Future without Project (Year 2019) Conditions
4. Future with Project (Year 2019) Conditions

### Intersection Analysis Methodology

Consistent with *Traffic Study Policies and Procedures* (LADOT, August 2014), intersection capacity was analyzed using the “Critical Movement Analysis (CMA) – Planning” (*Transportation Research Circular No. 212, Interim Materials on Highway Capacity,* Transportation Research Board, 1980) methodology. The CMA methodology, implemented using LADOT’s Calcadb Lite spreadsheet application, calculates volume-to-capacity (V/C) ratio and determines intersection level of service (LOS), which is a letter grade ranging from LOS A (free-flow conditions) to LOS F (congested conditions, over capacity).

The significance of the potential impacts of Project generated traffic at the signalized study intersections was determined using LADOT’s sliding scale methodology, in which the minimum

allowable increase in the V/C ratio attributable to a project decreases as the V/C ratio of the intersection increases, in accordance with the following:

| Intersection Conditions with Project Traffic | | Significant Impact Threshold for Project-related Increase in V/C Ratio |
|---|---|---|
| **LOS** | **V/C** | |
| C | 0.701 – 0.800 | Equal to or greater than 0.04 |
| D | 0.801 – 0.900 | Equal to or greater than 0.02 |
| E, F | > 0.900 | Equal to or greater than 0.01 |

*Source: City of Los Angeles.*

The relative impact of the added traffic volumes to be generated by the Project was evaluated based on analysis of existing and future operating conditions at the study intersections, with and without the Project.

## PROJECT TRAFFIC

Trip generation estimates for the Project were calculated using apartment trip generation rates from *Trip Generation, 9th Edition* (Institute of Transportation Engineers, 2012) based on the 49 residential units provided. In practice, the apartment rates likely overestimate trip generation for student housing because students typically don't drive to or from their residence during the peak hours and many do not own vehicles at all. Notwithstanding, an even more conservative supplemental analysis was conducted using the apartment trip generation rates based on the maximum 196 residents (see below for details).

A 15% transit credit was applied to Project trips consistent with LADOT guidelines for a Project within one quarter-mile of a Metro rail station. Trips generated by the four residential units currently at the Project Site were subtracted from the Project trips. Table 1 shows the trip generation estimates for the Project. As shown, the Project is expected to generate a net total of 254 daily trips, including 19 morning peak hour trips (four inbound trips and 15 outbound trips), and 23 afternoon peak hour trips (16 inbound trips and seven outbound trips).

The intersection-level trip distribution pattern for the Project at the study intersections is shown in Figure 3. The peak hour Project trips were distributed through the five study intersections based on the following general distribution patterns:

- 35% northbound (via Figueroa Street and Flower Street)
- 30% southbound (via Figueroa Street and Flower Street, partially to I-110)
- 35% westbound (via 30th Street, 32nd Street, and Jefferson Boulevard)

As there are no developments likely to attract student trips to the east, no Project traffic was assumed to travel further east than I-110 in the vicinity of the Project Site. Figure 4 illustrates the Project-only traffic volumes at the study intersections during typical weekday morning and afternoon peak hours. These trips were added to the Existing and Future without Project peak hour traffic volumes to produce Existing with Project (Year 2016) and Future with Project (Year 2019) peak hour traffic volumes at each individual study intersection.

## INTERSECTION LEVELS OF SERVICE

The Existing Conditions intersection peak hour traffic volumes are illustrated in Figure 5. The Existing with Project Conditions, shown in Figure 6, were compared to the Existing Conditions to identify potential Project impacts at the five study intersections. As shown in Table 2, all five study intersections are anticipated to operate at LOS D or better under both Existing Conditions and Existing with Project Conditions. Based on LADOT significant impact criteria, the incremental increase in the V/C ratios with the addition of Project traffic would not exceed the significance thresholds at any of the study intersections under Existing with Project Conditions.

The Future without Project Conditions (Year 2019) were developed by applying an ambient growth factor of 1% per year compounded annually to the Existing traffic volumes. The total adjustment applied over the three-year period was 3.03%. The volumes for Future without Project Conditions are illustrated in Figure 7. The Future with Project Conditions (Year 2019) were developed by adding Project traffic to the Future without Project traffic volumes and are shown in Figure 8.

As shown in Table 3, Intersection #3, Figueroa Street & Jefferson Boulevard, is projected to operate at LOS D under Future without Project Conditions and Future with Project Conditions during the morning peak hour. The remaining four intersections are anticipated to operate at LOS C or better during both peak hours, without and with Project traffic. Based on LADOT significant impact criteria, the incremental increase in the V/C ratios with the addition of Project traffic would not exceed the significance thresholds at any of the five study intersections under Future with Project Conditions. Therefore, no significant impact would occur and no mitigation is required. Intersection LOS worksheets are provided in Attachment C.

### Supplemental Analysis Based on Residents

A supplemental analysis was conducted estimating traffic based on the number of residents rather than the number of units In order to ensure that no significant traffic impacts would occur even with more conservative assumptions. As noted, students typically do not drive during peak hours, and therefore this analysis substantially overestimates trips. Table 4 summarizes the trip generation estimates for the supplemental analysis based on 196 residents. As shown, the estimates include 529 daily trips, 45 trips during the morning peak hour, and 64 trips during the afternoon peak hour.

Table 5 summarizes the intersection LOS analysis for both Existing with Project Conditions and Future with Project Conditions using the supplemental trip generation rates. As shown, no significant impacts would occur even with the conservative rates.

## PARKING

The Project is eligible for a density bonus pursuant to Los Angeles Municipal Code (LAMC) Section 12.22.A.25 because it would provide four very low income units (8% of the total Project units). Under Parking Option 1 in LAMC Section 12.22.A.25(D)(1), the Project must provide two parking spaces per each two- or three-bedroom unit. It must provide 2.5 spaces for each four-

bedroom unit. Based on the proposed unit count, and as summarized in Table 6, the Project would be required to provide 110 spaces prior to any other reductions in requirement.

Pursuant to LAMC Section 12.24.A.4, a residential project located within 1,500 feet of a light rail station (in this case, the Jefferson Boulevard station of the Metro Expo Line) may replace up to 15% of the residential parking requirement with bicycle parking at a ratio of four bicycle parking spaces for every vehicular space. This allows a vehicular reduction of 16 spaces for inclusion of at least 64 bicycle parking spaces at the Project Site. Further, the Project Applicant requests an additional 15% reduction (16 additional spaces) as an off-menu incentive pursuant to LAMC Section 12.22.A.25(G)(3). With both of these reductions, as shown in Table 6, the total vehicular parking requirement would be 78 spaces, equal to the proposed supply.

The Project is also required to provide one long-term bicycle parking space per unit and one short-term bicycle parking space per 10 units. In total, these ratios require 49 long-term and five short-term spaces. However, as noted above, the Project must provide a minimum of 64 spaces as replacements for 16 vehicular parking spaces. The Project would provide 278 bicycle parking spaces for residents and visitors, and therefore, would substantially exceed the requirement.

## CONGESTION MANAGEMENT PROGRAM

*2010 Los Angeles County Congestion Management Program* (Metro, 2010) (CMP) provides guidelines for conducting impact analyses on specific intersections and freeway segments identified for long-term traffic monitoring. Detailed analysis must be conducted at any monitoring intersection where the Project would add more than 50 trips in a peak hour and at any monitoring freeway segment where the Project would add more than 150 trips in a peak hour. Because the Project generates fewer than 50 net trips, no further analysis is required.

## SUMMARY AND CONCLUSION

- The Project consists of the development of a 49-unit student housing complex which could accommodate up to 196 USC students. It would include 78 parking spaces on two levels as well as 278 bicycle parking spaces.

- The Project would replace a four-unit apartment building and a vacant lot.

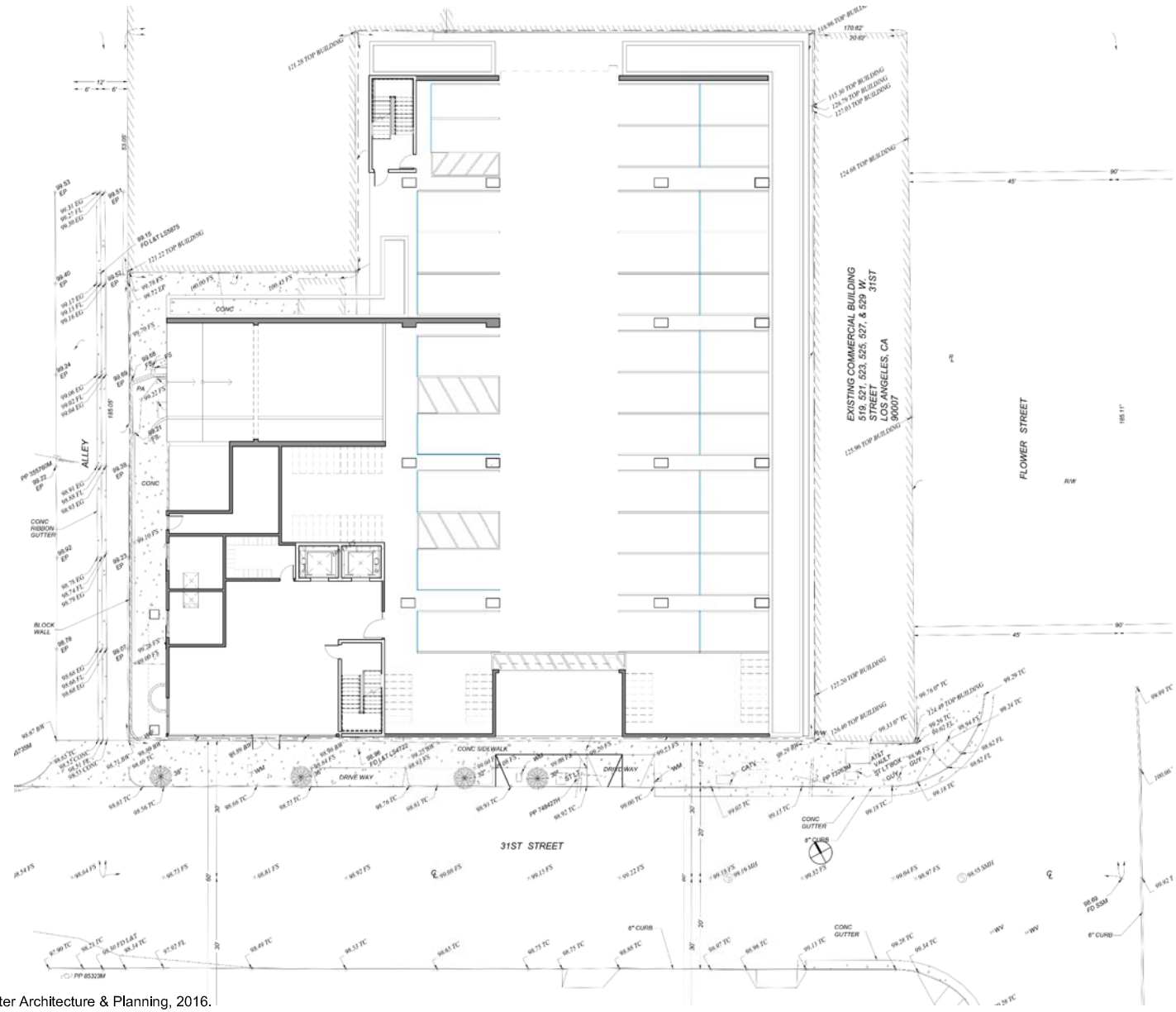
- Site access would be provided via full-access driveways to 31st Street (accessing the at-grade parking level) and the alley along the western border of the Project Site (accessing the below-grade level).

- Using ITE rates for apartments based on the number of total units, the Project is anticipated to generate 254 net new daily trips, including 19 during the morning peak hour and 23 during the afternoon peak hour.

- Project traffic would not result in significant impacts at any of the five study intersections under Existing with Project Conditions or Future with Project Conditions. Therefore, no mitigation measures are required or recommended.

- Even under a much more conservative estimate of Project trip generation using ITE apartment rates based on the number of residents, none of the five study intersections would be significantly impacted. Because the building serves students, who drive far less than typical apartment dwellers (and especially less during peak periods), this supplemental analysis is highly conservative.

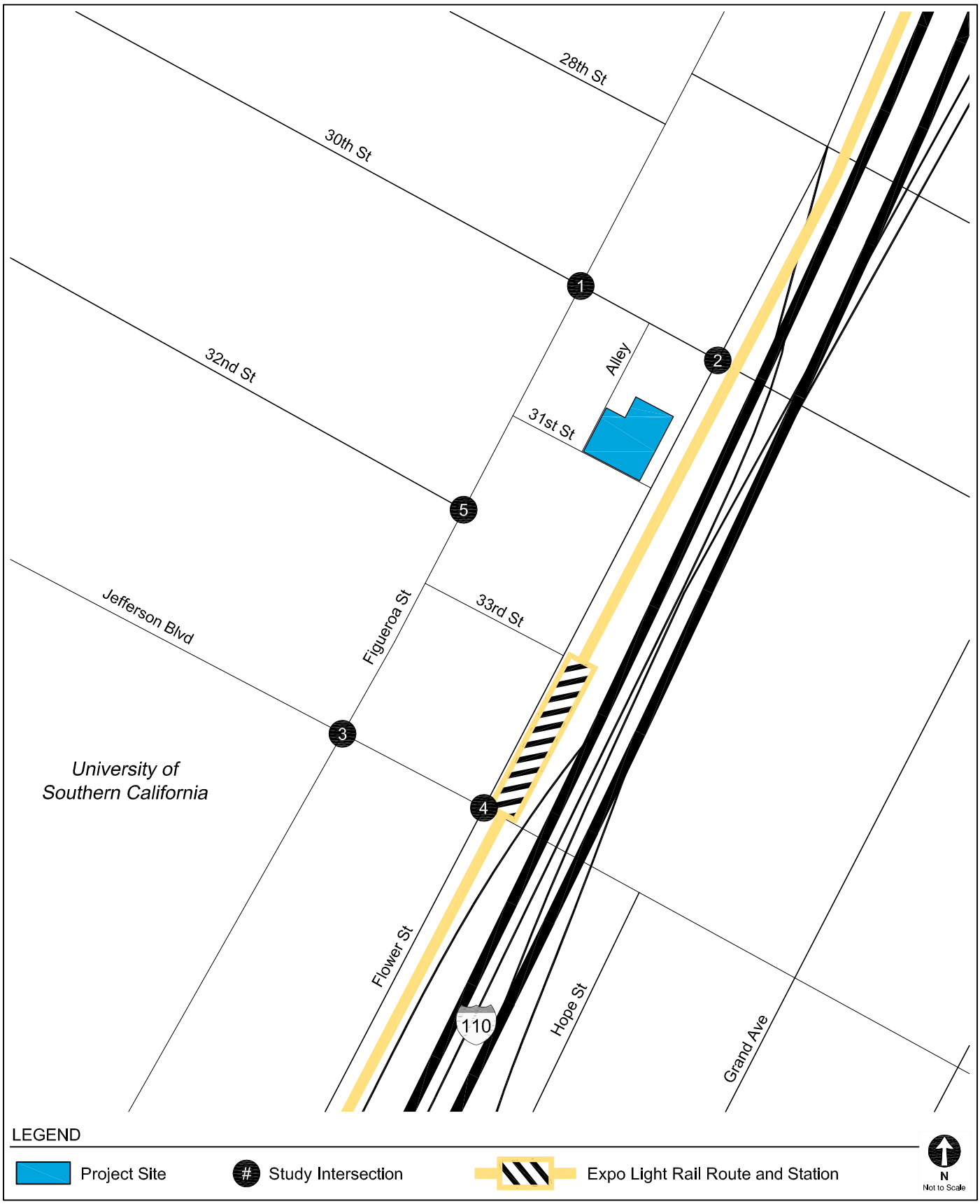
- The Project provides sufficient vehicular and bicycle parking to meet City of Los Angeles requirements with on-menu and off-menu parking incentives pursuant to the LAMC.




Source: Hochhauser + Blatter Architecture & Planning, 2016.

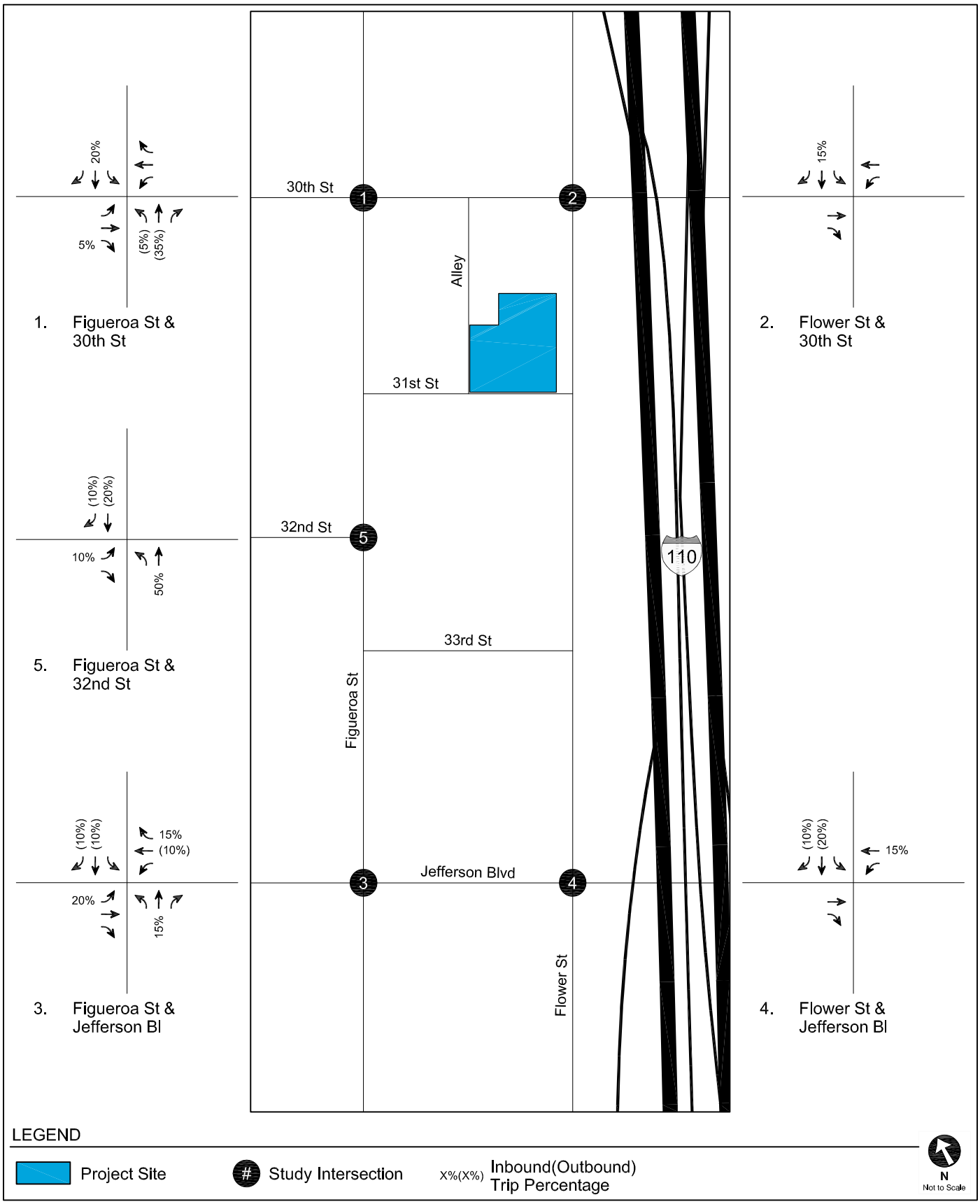
GROUND-LEVEL SITE PLAN

FIGURE 1



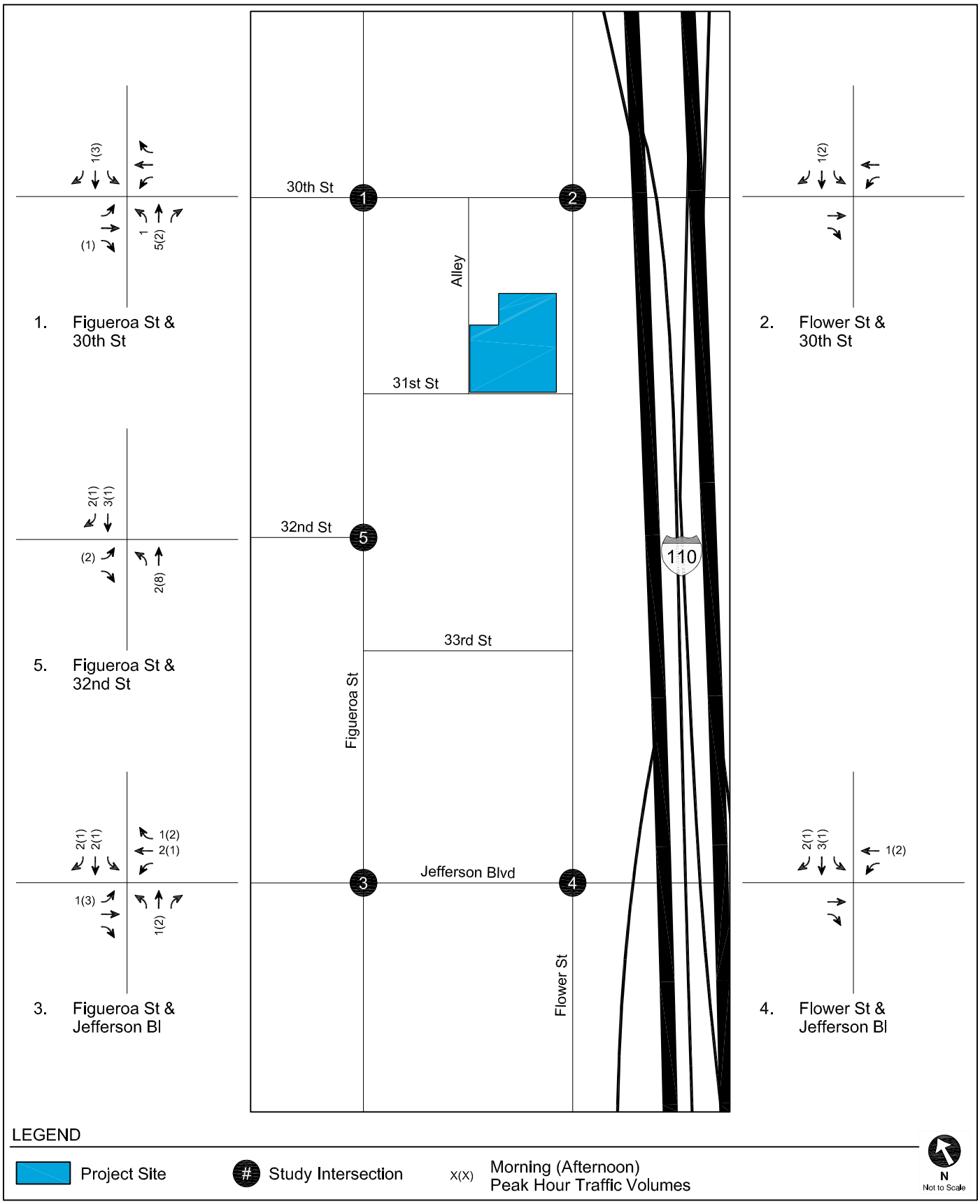

STUDY AREA AND ANALYZED LOCATIONS

FIGURE 2



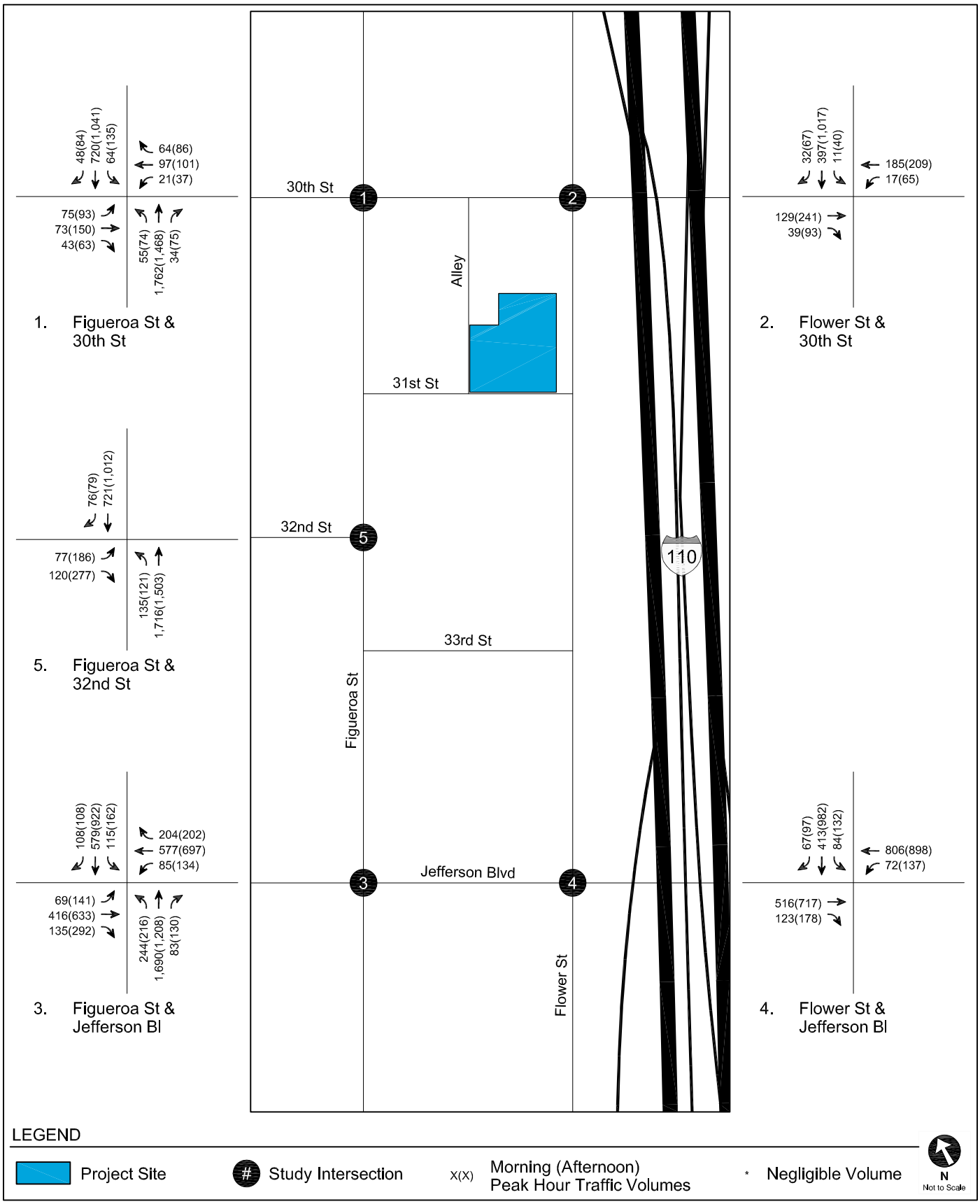

TRIP DISTRIBUTION

FIGURE 3



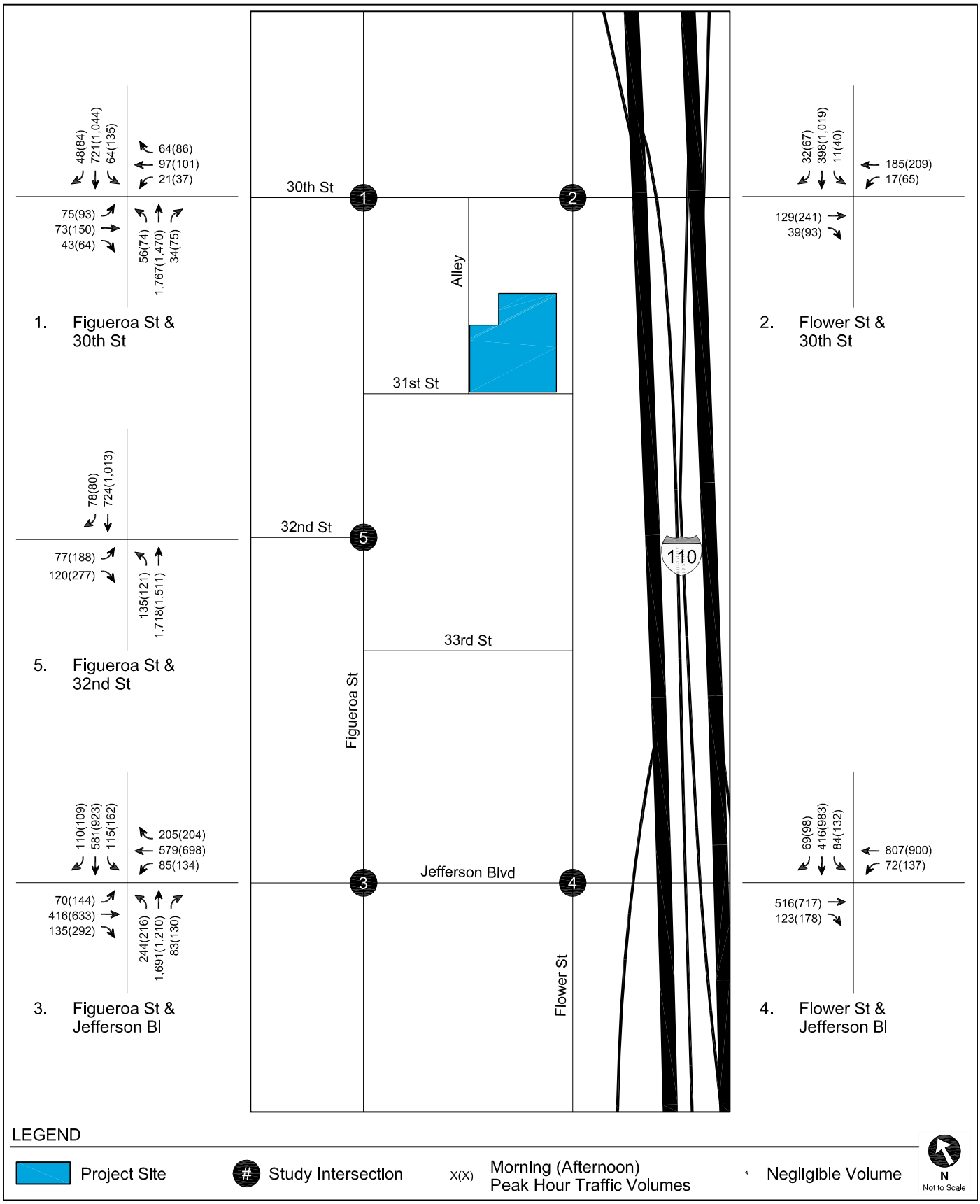

PROJECT-ONLY
PEAK HOUR TRAFFIC VOLUMES

FIGURE
4



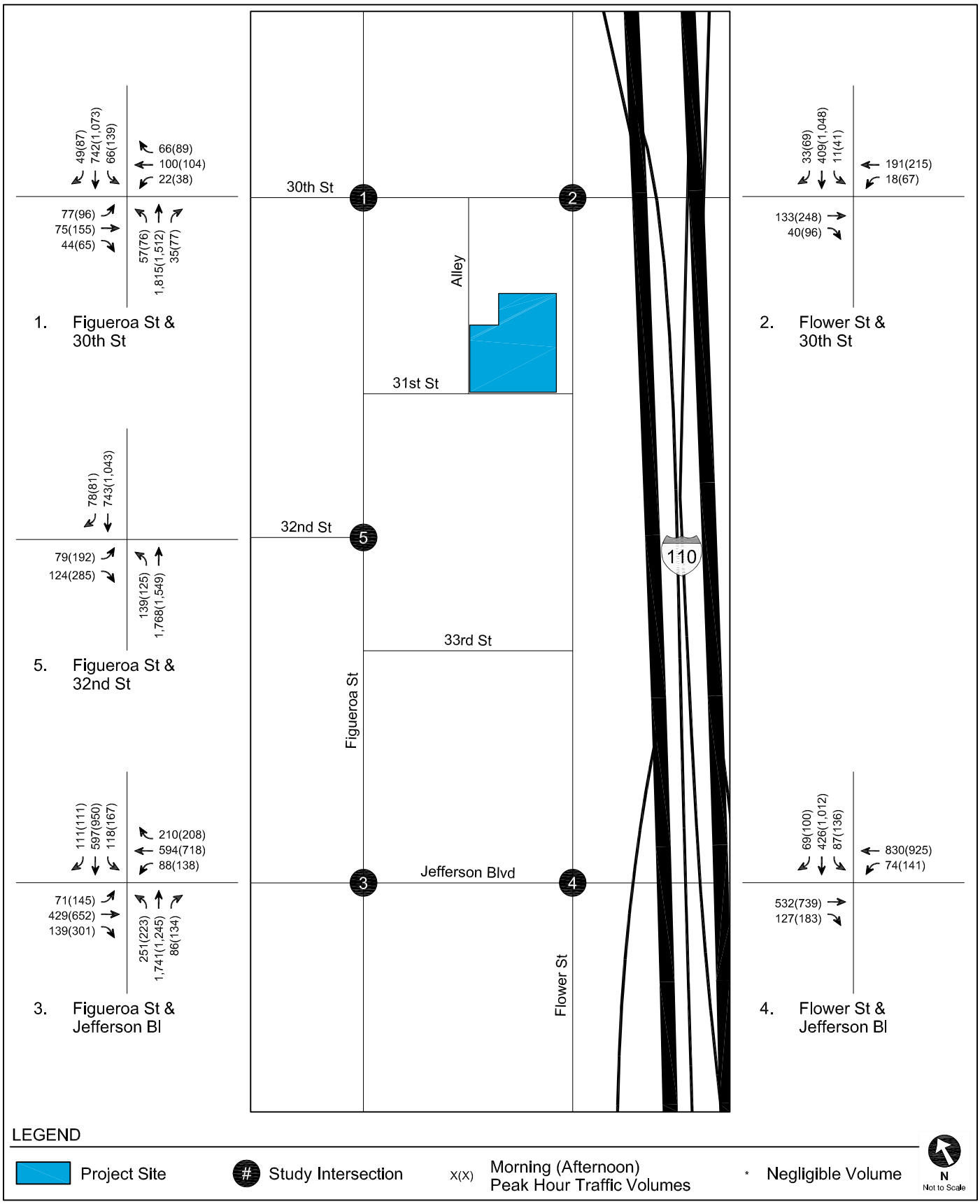

EXISTING CONDITIONS (YEAR 2016)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 5



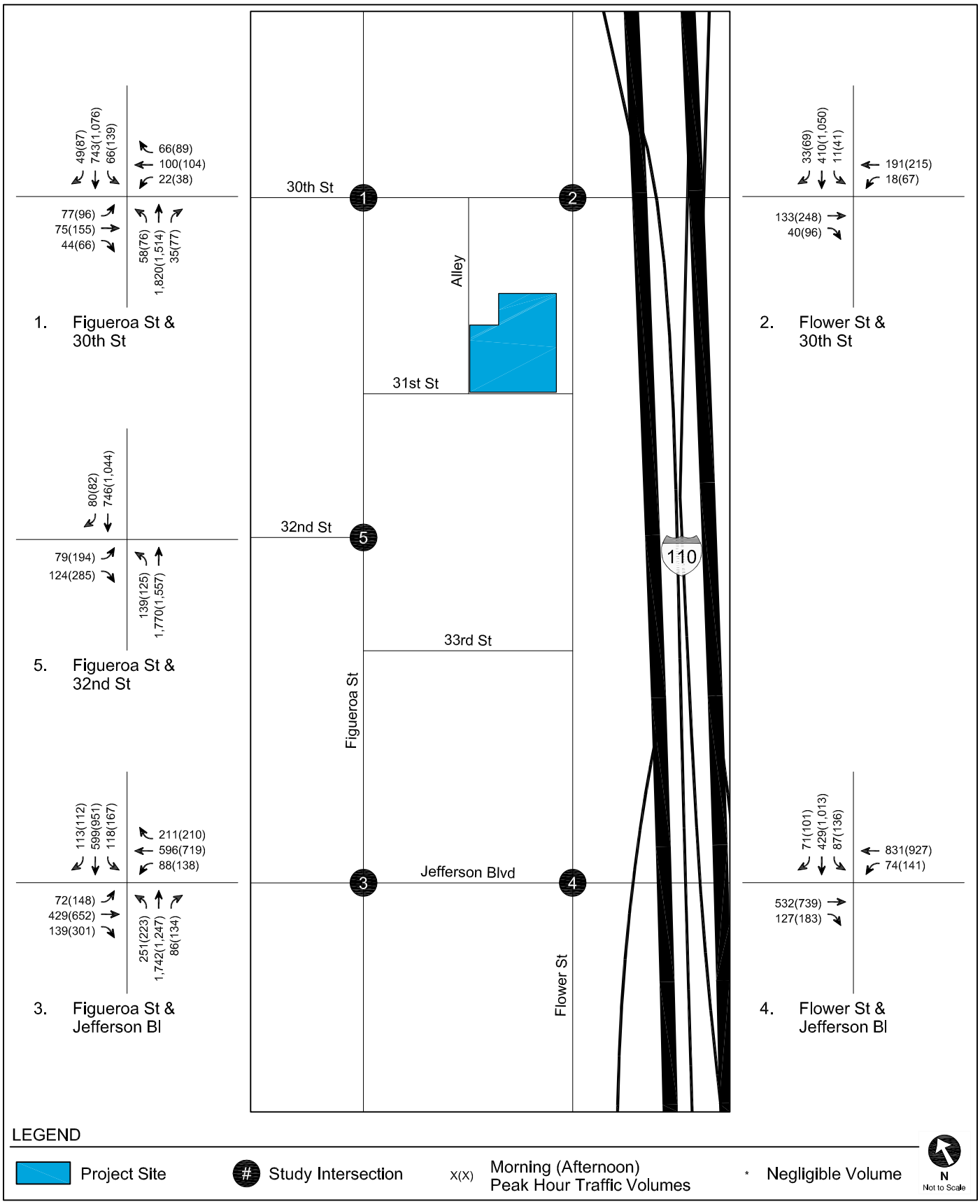

EXISTING WITH PROJECT CONDITIONS (YEAR 2016)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 6




FUTURE WITHOUT PROJECT CONDITIONS (YEAR 2019)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 7




FUTURE WITH PROJECT CONDITIONS (YEAR 2019)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 8

**TABLE 1**
**PROJECT TRIP GENERATION ESTIMATES**

| Land Use | ITE Code | Rate | Daily | Morning Peak Hour | | | Afternoon Peak Hour | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | In | Out | Total | In | Out | Total |
| ***Trip Generation Rates*** [a] | | | | | | | | | |
| Apartment | 220 | per dwelling unit | 6.65 | 20% | 80% | 0.51 | 65% | 35% | 0.62 |
| ***Trip Generation Estimates*** | | | | | | | | | |
| **Proposed Project Uses** | | | | | | | | | |
| Student Housing | 220 | 49 units | 326 | 5 | 20 | 25 | 20 | 10 | 30 |
| *Transit/Walk-In Adjustment - 15%* [b] | | | *-49* | *-1* | *-3* | *-4* | *-3* | *-2* | *-5* |
| ***Gross Project Trips*** | | | ***277*** | ***4*** | ***17*** | ***21*** | ***17*** | ***8*** | ***25*** |
| **Existing Active Land Uses (Removed)** | | | | | | | | | |
| Apartments | 220 | 4 units | 27 | 0 | 2 | 2 | 1 | 1 | 2 |
| *Transit/Walk-In Adjustment - 15%* [b] | | | *-4* | *0* | *0* | *0* | *0* | *0* | *0* |
| ***Gross Removed Trips*** | | | ***23*** | ***0*** | ***2*** | ***2*** | ***1*** | ***1*** | ***2*** |
| **NET TOTAL PROJECT TRIPS** | | | **254** | **4** | **15** | **19** | **16** | **7** | **23** |

Notes:
[a] Source: *Trip Generation, 9th Edition* , Institute of Transportation Engineers, 2012.
[b] Per LADOT's *Traffic Study Policies and Procedures* (LADOT, August 2014), a 15% transit adjustment was applied to account for transit usage and walking trips to and from the University of Southern California campus.

**TABLE 2**
**EXISTING WITH PROJECT CONDITIONS (YEAR 2016)**
**INTERSECTION LEVELS OF SERVICE AND SIGNIFICANT IMPACTS**

| No. | Intersection | Peak Hour | Existing Conditions | | Existing with Project Conditions | | | |
|---|---|---|---|---|---|---|---|---|
| | | | V/C | LOS | V/C | LOS | Δ V/C | Impact |
| 1. | Figueroa Street & 30th Street | A.M. | 0.399 | A | 0.400 | A | 0.001 | NO |
| | | P.M. | 0.503 | A | 0.503 | A | 0.000 | NO |
| 2. | Flower Street & 30th Street | A.M. | 0.169 | A | 0.169 | A | 0.000 | NO |
| | | P.M. | 0.433 | A | 0.434 | A | 0.001 | NO |
| 3. | Figueroa Street & Jefferson Boulevard | A.M. | 0.544 | A | 0.546 | A | 0.002 | NO |
| | | P.M. | 0.617 | B | 0.619 | B | 0.002 | NO |
| 4. | Flower Street & Jefferson Boulevard | A.M. | 0.328 | A | 0.329 | A | 0.001 | NO |
| | | P.M. | 0.468 | A | 0.468 | A | 0.000 | NO |
| 5. | Figueroa Street & 32nd Street | A.M. | 0.328 | A | 0.329 | A | 0.001 | NO |
| | | P.M. | 0.468 | A | 0.468 | A | 0.000 | NO |

**TABLE 3**
**FUTURE WITH PROJECT CONDITIONS (YEAR 2019)**
**INTERSECTION LEVELS OF SERVICE AND SIGNIFICANT IMPACTS**

| No. | Intersection | Peak Hour | Future without Project Conditions | | Future with Project Conditions | | | |
|---|---|---|---|---|---|---|---|---|
| | | | V/C | LOS | V/C | LOS | Δ V/C | Impact |
| 1. | Figueroa Street & 30th Street | A.M.<br>P.M. | 0.711<br>0.689 | C<br>B | 0.713<br>0.690 | C<br>B | 0.002<br>0.001 | NO<br>NO |
| 2. | Flower Street & 30th Street | A.M.<br>P.M. | 0.178<br>0.449 | A<br>A | 0.178<br>0.450 | A<br>A | 0.000<br>0.001 | NO<br>NO |
| 3. | Figueroa Street & Jefferson Boulevard | A.M.<br>P.M. | 0.864<br>0.794 | D<br>C | 0.865<br>0.796 | D<br>C | 0.001<br>0.002 | NO<br>NO |
| 4. | Flower Street & Jefferson Boulevard | A.M.<br>P.M. | 0.341<br>0.485 | A<br>A | 0.343<br>0.486 | A<br>A | 0.002<br>0.001 | NO<br>NO |
| 5. | Figueroa Street & 32nd Street | A.M.<br>P.M. | 0.341<br>0.485 | A<br>A | 0.343<br>0.486 | A<br>A | 0.002<br>0.001 | NO<br>NO |

**TABLE 4**
**SUPPLEMENTAL TRIP GENERATION ESTIMATES BASED ON NUMBER OF RESIDENTS**

| Land Use | ITE Code | Rate | Daily | Morning Peak Hour | | | Afternoon Peak Hour | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | In | Out | Total | In | Out | Total |
| ***Trip Generation Rates*** [a] | | | | | | | | | |
| Apartment | 220 | per resident | 3.31 | 20% | 80% | 0.28 | 65% | 35% | 0.40 |
| Apartment | 220 | per dwelling unit | 6.65 | 20% | 80% | 0.51 | 65% | 35% | 0.62 |
| ***Trip Generation Estimates*** | | | | | | | | | |
| **Proposed Project Uses** | | | | | | | | | |
| Student Housing | 220 | 196 residents | 649 | 11 | 44 | 55 | 51 | 27 | 78 |
| *Transit/Walk-In Adjustment - 15%* [b] | | | *-97* | *-2* | *-6* | *-8* | *-8* | *-4* | *-12* |
| ***Gross Project Trips*** | | | ***552*** | ***9*** | ***38*** | ***47*** | ***43*** | ***23*** | ***66*** |
| **Existing Active Land Uses (Removed)** | | | | | | | | | |
| Apartments | 220 | 4 units | 27 | 0 | 2 | 2 | 1 | 1 | 2 |
| *Transit/Walk-In Adjustment - 15%* [b] | | | *-4* | *0* | *0* | *0* | *0* | *0* | *0* |
| ***Gross Removed Trips*** | | | ***23*** | ***0*** | ***2*** | ***2*** | ***1*** | ***1*** | ***2*** |
| **NET TOTAL PROJECT TRIPS** | | | **529** | **9** | **36** | **45** | **42** | **22** | **64** |

Notes:
[a] Source: *Trip Generation, 9th Edition* , Institute of Transportation Engineers, 2012.
[b] Per LADOT's *Traffic Study Policies and Procedures* (LADOT, August 2014), a 15% transit adjustment was applied to account for transit usage and walking trips to and from the University of Southern California campus.

**TABLE 5**
**EXISTING (YEAR 2016) AND FUTURE (YEAR 2019) WITH PROJECT CONDITIONS**
**SUPPLEMENTAL ANALYSIS OF INTERSECTION LEVELS OF SERVICE AND SIGNIFICANT IMPACTS**

| No. | Intersection | Peak Hour | without Project Conditions | | with Project Conditions | | | |
|---|---|---|---|---|---|---|---|---|
| | | | V/C | LOS | V/C | LOS | Δ V/C | Impact |
| ***Existing Conditions (Year 2016)*** | | | | | | | | |
| 1. | Figueroa Street & 30th Street | A.M.<br>P.M. | 0.399<br>0.503 | A<br>A | 0.401<br>0.505 | A<br>A | 0.002<br>0.002 | NO<br>NO |
| 2. | Flower Street & 30th Street | A.M.<br>P.M. | 0.169<br>0.433 | A<br>A | 0.169<br>0.435 | A<br>A | 0.000<br>0.002 | NO<br>NO |
| 3. | Figueroa Street & Jefferson Boulevard | A.M.<br>P.M. | 0.544<br>0.617 | A<br>B | 0.547<br>0.622 | A<br>B | 0.003<br>0.005 | NO<br>NO |
| 4. | Flower Street & Jefferson Boulevard | A.M.<br>P.M. | 0.328<br>0.468 | A<br>A | 0.331<br>0.471 | A<br>A | 0.003<br>0.003 | NO<br>NO |
| 5. | Figueroa Street & 32nd Street | A.M.<br>P.M. | 0.328<br>0.468 | A<br>A | 0.331<br>0.471 | A<br>A | 0.003<br>0.003 | NO<br>NO |
| ***Future Conditions (Year 2019)*** | | | | | | | | |
| 1. | Figueroa Street & 30th Street | A.M.<br>P.M. | 0.711<br>0.689 | C<br>B | 0.715<br>0.692 | C<br>B | 0.004<br>0.003 | NO<br>NO |
| 2. | Flower Street & 30th Street | A.M.<br>P.M. | 0.178<br>0.449 | A<br>A | 0.178<br>0.451 | A<br>A | 0.000<br>0.002 | NO<br>NO |
| 3. | Figueroa Street & Jefferson Boulevard | A.M.<br>P.M. | 0.864<br>0.794 | D<br>C | 0.866<br>0.800 | D<br>C | 0.002<br>0.006 | NO<br>NO |
| 4. | Flower Street & Jefferson Boulevard | A.M.<br>P.M. | 0.341<br>0.485 | A<br>A | 0.344<br>0.489 | A<br>A | 0.003<br>0.004 | NO<br>NO |
| 5. | Figueroa Street & 32nd Street | A.M.<br>P.M. | 0.341<br>0.485 | A<br>A | 0.344<br>0.489 | A<br>A | 0.003<br>0.004 | NO<br>NO |

**TABLE 6**
**VEHICULAR PARKING REQUIREMENT**

| **Type of Room or Land Use** | **Parking Spaces** |
|---|---|
| ***Los Angeles Municipal Code Requirement*** | |
| Two-Bedroom Unit | 2 spaces per unit [a] |
| Three-Bedroom Unit | 2 spaces per unit [a] |
| Four-Bedroom Unit | 2.5 spaces per unit |
| ***Project Parking Requirement*** | |
| Two-Bedroom Units (3 units) | 6 |
| Three-Bedroom Units (22 units) | 44 |
| Four-Bedroom Units (24 units) | 60 |
| ***Requirement Before Credits*** | **110** |
| [b] **15% Vehicular Parking Reduction for Provision of Bicycle Parking** | **(16)** |
| [c] **Additional 15% Parking Reduction** | **(16)** |
| **TOTAL CODE REQUIREMENT** | **78** |

Notes:
sf = square feet
[a] Parking requirement includes Parking Option 1 per Los Angeles Municipal Code (LAMC) Section 12.22.A.25(D)(1).
[b] Pursuant to LAMC Section 12.24.A.4.
[c] Pursuant to LAMC Section 12.22.A.25(G)(3).

***Attachment A***

***Memorandum of Understanding***

## TRAFFIC STUDY - MEMORANDUM OF UNDERSTANDING (MOU)

This MOU acknowledges that the traffic study for the following project will be prepared in accordance with the latest version of LADOT's Traffic Study Policies and Procedures:

Project Name: 505-517 W. 31st Street Student Housing Project

Project Address: 505-517 W. 31st Street, Los Angeles, CA 90007

Project Description: The Project consists of 7-story student housing building, consisting of 6 levels of student housing over two levels of parking (one at-grade parking and one subterranean). The building would consist of 49 units housing up to 196 students. It would replace a 4-unit apartment building. **(See Figure 1)**

Study Intersections **(See Table 1 & Figure 2)**
(Subject to LADOT revision after initial impact analysis)

Geographic Distribution: North: 35% South: 30% East: 0% West: 35%

Attach graphic illustrating project trip distribution percentages at the studied intersections **(See Figure 3)**

Trip Generation Rate(s): ITE 9th Edition Apartment Rate
**(See Table 2 for estimates and Figure 4 for Project traffic at study intersections)**

| | In | out | total |
|---|---|---|---|
| AM Trips | 4 | 15 | 19 |
| PM Trips | 16 | 7 | 23 |

Note: Project falls under 43-trip threshold and therefore only a technical memorandum is required.

Trip Credits: (Exact amount of credit subject to approval by LADOT)

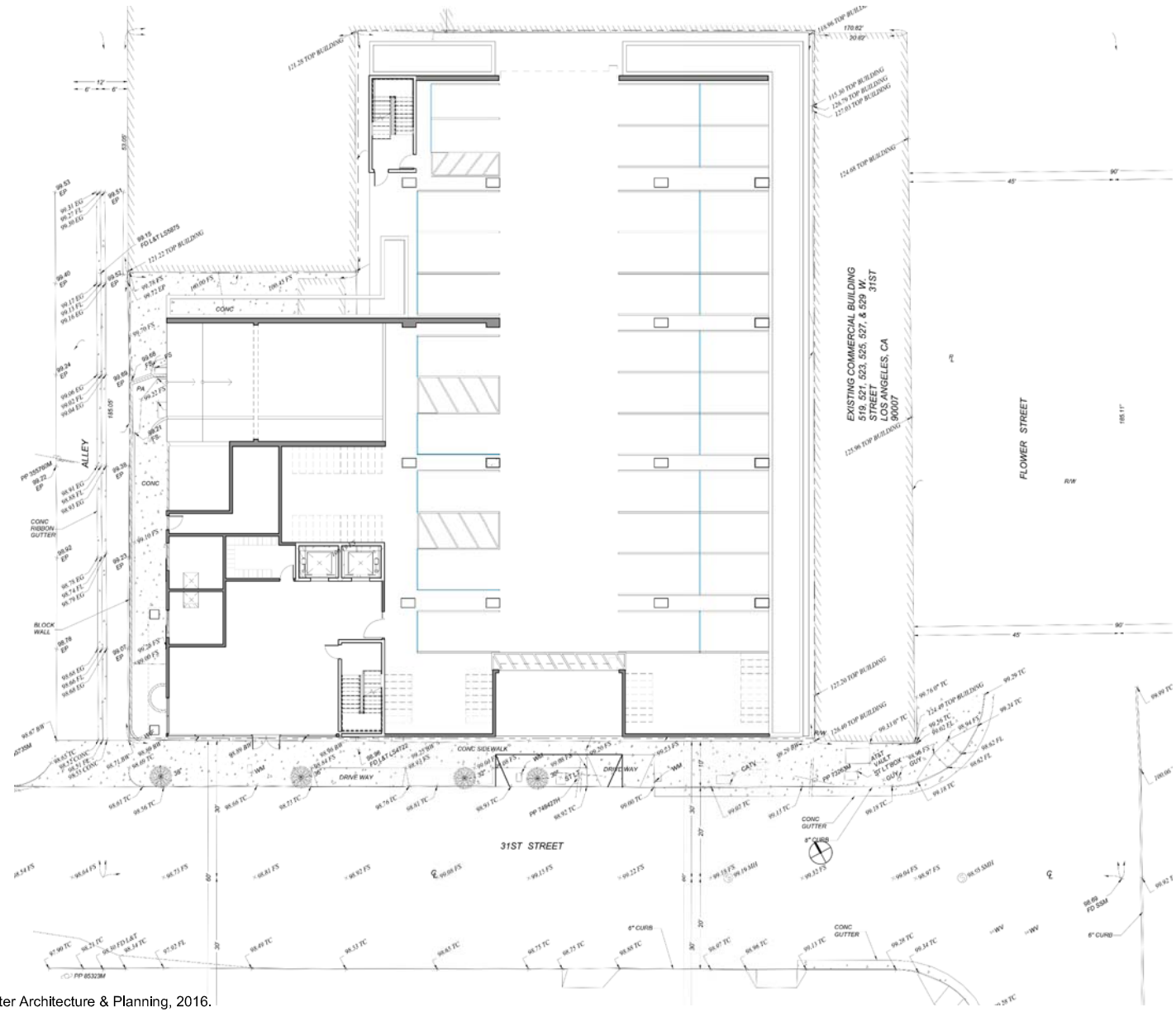
| | Yes | No |
|---|---|---|
| Transit Usage | X | |
| Transportation Demand Management | | X |
| Existing Active Land Use | X | |
| Previous Land Use | | X |
| Internal Trip | | X |
| Pass-By Trip | | X |

Project Buildout Year: 2019 Ambient or CMP Growth Rate: 1 % Per Year
Related Projects: (to be provided by LADOT if necessary)

Subject to Freeway Impact Analysis Screening review: ___YES X NO
(Project generates too few trips to satisfy any of the screening criteria)

Is the project on the High Injury Network? ___YES X NO

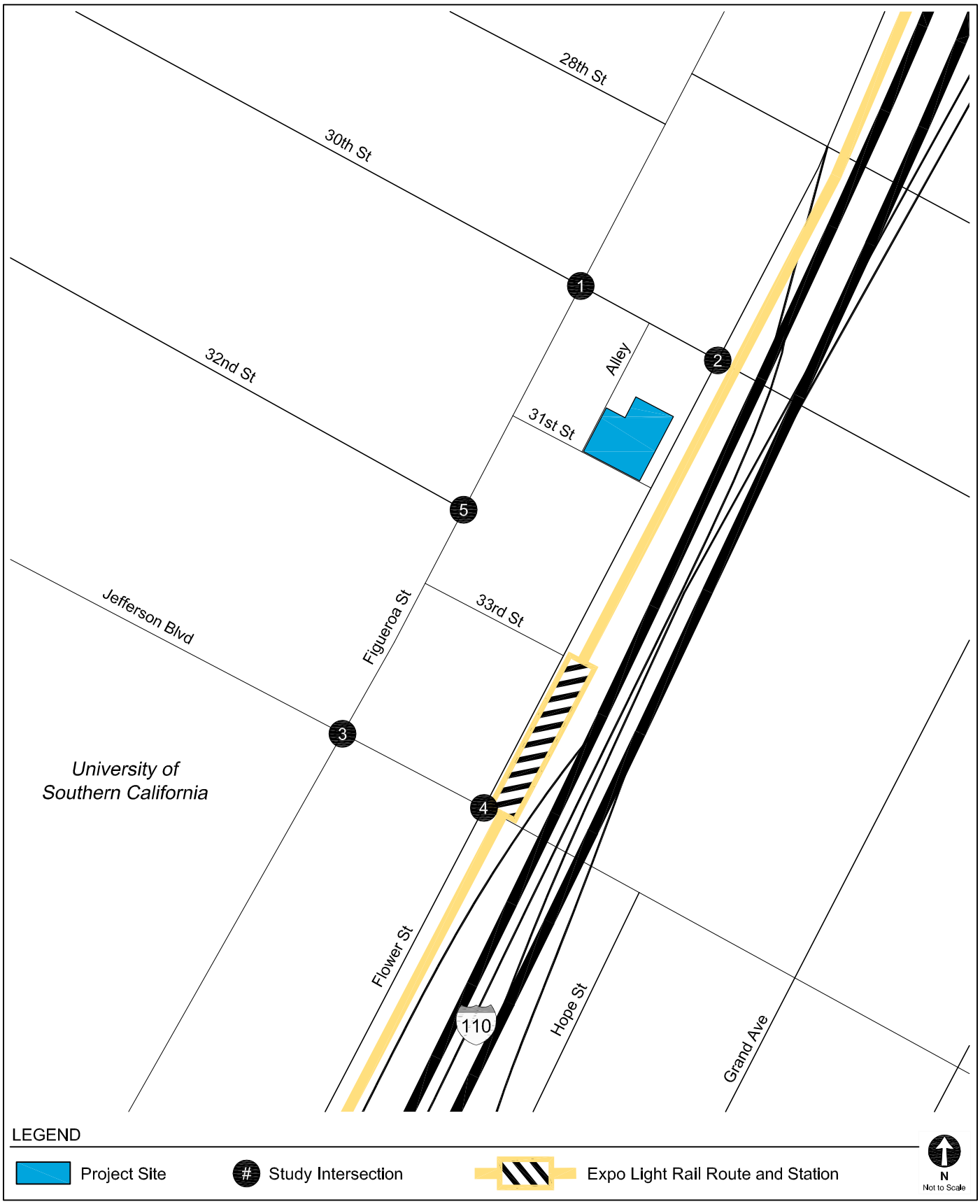
| | Consultant | Developer |
|---|---|---|
| Name | Gibson Transportation Consulting, Inc. | 31st & Figueroa Holdings LLC |
| | | 10474 Santa Monica Blvd, Suite 402 |
| Address | 523 W. 6th Street, Ste 1234, Los Angeles, CA 90014 | Los Angeles, CA 90025 |
| Phone No. | (213) 683-0088 | (310) 362-6168 |
| E-Mail | jchambers@gibsontrans.com | jared.brenner-goldstein@canfield-development.com |
| Approved by: | Consultant's Representative — Date: 1/3/17 ~~12/21/2016~~ | LADOT Representative — Date: 1/3/17 |




Source: Hochhauser + Blatter Architecture & Planning, 2016.

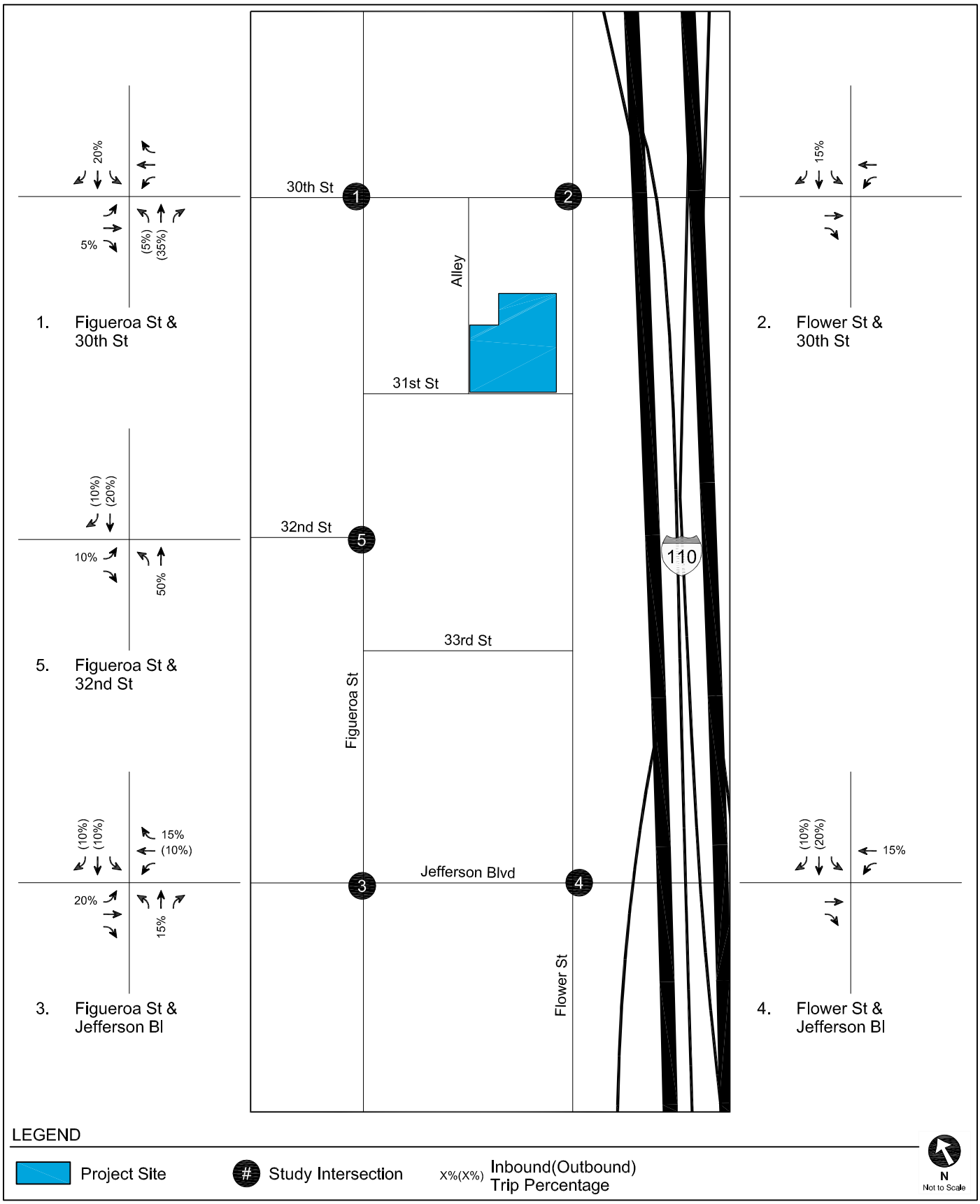
GROUND-LEVEL SITE PLAN

FIGURE 1



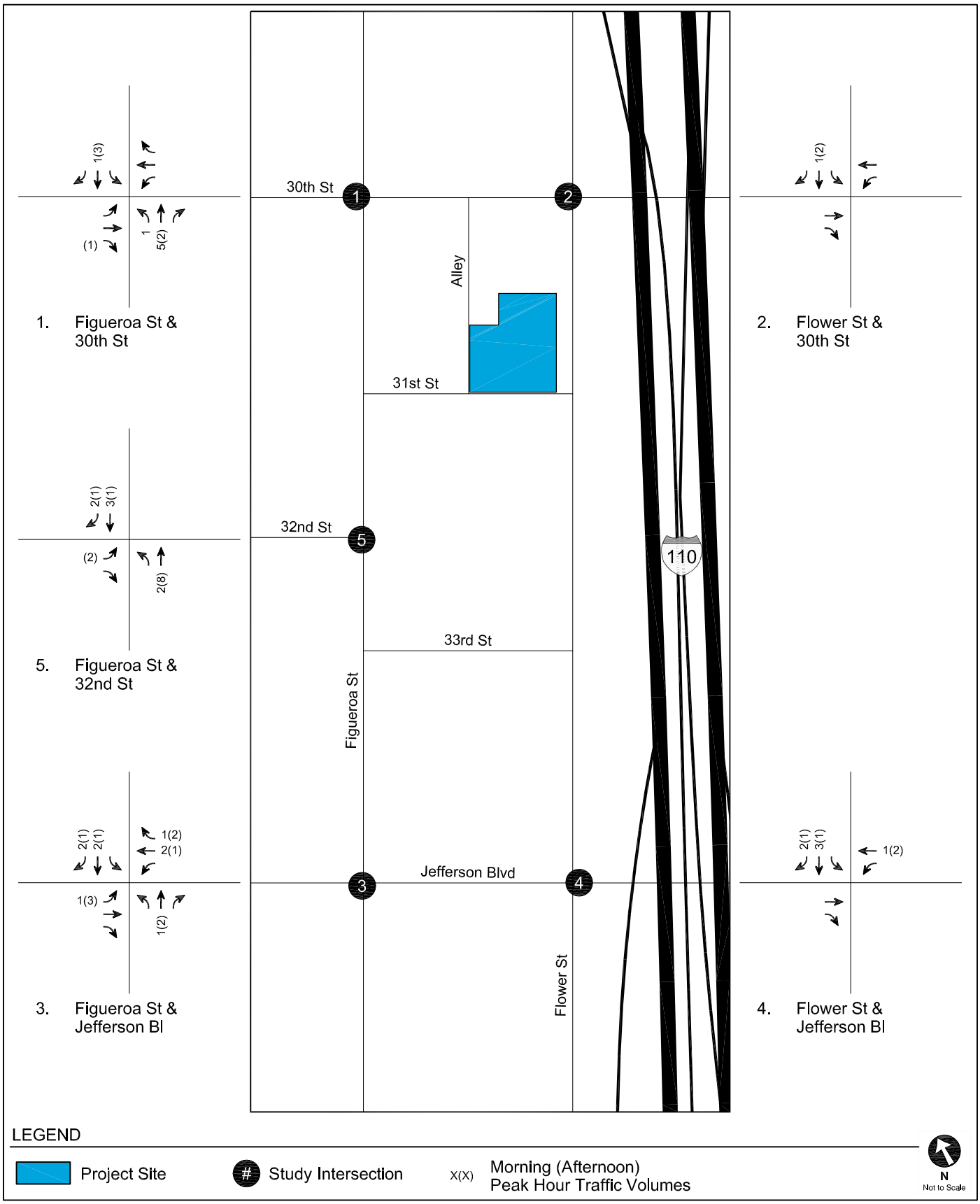

STUDY AREA AND ANALYZED LOCATIONS

FIGURE 2




TRIP DISTRIBUTION

FIGURE 3




PROJECT-ONLY
PEAK HOUR TRAFFIC VOLUMES

FIGURE
4

**TABLE 1**
**STUDY INTERSECTIONS**

| No | Intersection |
|---|---|
| 1. | Figueroa Street & 30th Street |
| 2. | Flower Street & 30th Street |
| 3. | Figueroa Street & Jefferson Boulevard |
| 4. | Flower Street & Jefferson Boulevard |
| 5. | Figueroa Street & 32nd Street |

**TABLE 2**
**PROJECT TRIP GENERATION ESTIMATES**

| Land Use | ITE Code | Rate | Daily | Morning Peak Hour | | | Afternoon Peak Hour | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | In | Out | Total | In | Out | Total |
| ***Trip Generation Rates*** [a] | | | | | | | | | |
| Apartment | 220 | per dwelling unit | 6.65 | 20% | 80% | 0.51 | 65% | 35% | 0.62 |
| ***Trip Generation Estimates*** | | | | | | | | | |
| **Proposed Project Uses** | | | | | | | | | |
| Student Housing | 220 | 49 units | 326 | 5 | 20 | 25 | 20 | 10 | 30 |
| *Transit/Walk-In Adjustment - 15%* [b] | | | *-49* | *-1* | *-3* | *-4* | *-3* | *-2* | *-5* |
| ***Gross Project Trips*** | | | ***277*** | ***4*** | ***17*** | ***21*** | ***17*** | ***8*** | ***25*** |
| **Existing Active Land Uses (Removed)** | | | | | | | | | |
| Apartments | 220 | 4 units | 27 | 0 | 2 | 2 | 1 | 1 | 2 |
| *Transit/Walk-In Adjustment - 15%* [b] | | | *-4* | *0* | *0* | *0* | *0* | *0* | *0* |
| ***Gross Removed Trips*** | | | ***23*** | ***0*** | ***2*** | ***2*** | ***1*** | ***1*** | ***2*** |
| **NET TOTAL PROJECT TRIPS** | | | **254** | **4** | **15** | **19** | **16** | **7** | **23** |

Notes:
[a] Source: *Trip Generation, 9th Edition* , Institute of Transportation Engineers, 2012.
[b] Per LADOT's *Traffic Study Policies and Procedures* (LADOT, August 2014), a 15% transit adjustment was applied to account for transit usage and walking trips to and from the University of Southern California campus.

# *Attachment B*

# *Intersection Traffic Counts*

# Turning Movement Count Report AM

Location ID: 1
North/South: Figueroa Street
East/West: 30th Street

Date: 11/17/16
City: Los Angeles, CA

| | *Southbound* | | | *Westbound* | | | *Northbound* | | | *Eastbound* | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | Totals: |
| Movements: | R | T | L | R | T | L | R | T | L | R | T | L | |
| 7:00 | 11 | 104 | 15 | 20 | 16 | 4 | 3 | 426 | 9 | 2 | 10 | 15 | 635 |
| 7:15 | 11 | 141 | 11 | 7 | 17 | 6 | 6 | 492 | 17 | 4 | 10 | 18 | 740 |
| 7:30 | 19 | 179 | 19 | 19 | 33 | 6 | 4 | 439 | 12 | 10 | 29 | 20 | 789 |
| 7:45 | 9 | 238 | 15 | 16 | 24 | 4 | 15 | 432 | 18 | 17 | 20 | 23 | 831 |
| 8:00 | 9 | 162 | 19 | 22 | 23 | 5 | 9 | 399 | 8 | 12 | 14 | 14 | 696 |
| 8:15 | 13 | 160 | 13 | 12 | 13 | 3 | 8 | 416 | 16 | 7 | 14 | 9 | 684 |
| 8:30 | 9 | 161 | 20 | 15 | 21 | 5 | 10 | 385 | 12 | 9 | 10 | 13 | 670 |
| 8:45 | 13 | 180 | 17 | 17 | 13 | 7 | 11 | 446 | 12 | 8 | 9 | 13 | 746 |
| 9:00 | 9 | 170 | 23 | 8 | 7 | 7 | 8 | 380 | 13 | 8 | 18 | 10 | 661 |
| 9:15 | 7 | 169 | 10 | 14 | 7 | 4 | 7 | 379 | 18 | 14 | 4 | 10 | 643 |
| 9:30 | 14 | 177 | 14 | 15 | 11 | 9 | 10 | 326 | 10 | 11 | 11 | 15 | 623 |
| 9:45 | 8 | 196 | 16 | 9 | 17 | 4 | 7 | 315 | 13 | 12 | 8 | 11 | 616 |
| Total Volume: | 132 | 2037 | 192 | 174 | 202 | 64 | 98 | 4835 | 158 | 114 | 157 | 171 | 8334 |
| Approach % | 6% | 86% | 8% | 40% | 46% | 15% | 2% | 95% | 3% | 26% | 36% | 39% | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Peak Hr Begin:** | 7:15 | | | | | | | | | | | | |
| PHV | 48 | 720 | 64 | 64 | 97 | 21 | 34 | 1762 | 55 | 43 | 73 | 75 | 3056 |
| PHF | 0.794 | | | 0.784 | | | 0.899 | | | 0.796 | | | 0.919 |

Prepared by City Count, LLC. (www.citycount.com)

# Turning Movement Count Report PM

Location ID: 1
North/South: Figueroa Street
East/West: 30th Street

Date: 11/17/16
City: Los Angeles, CA

| | *Southbound* | | | *Westbound* | | | *Northbound* | | | *Eastbound* | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | Totals: |
| Movements: | R | T | L | R | T | L | R | T | L | R | T | L | |
| 15:00 | 13 | 241 | 30 | 15 | 10 | 7 | 18 | 318 | 13 | 20 | 21 | 30 | 736 |
| 15:15 | 16 | 270 | 26 | 20 | 14 | 11 | 15 | 330 | 9 | 17 | 18 | 29 | 775 |
| 15:30 | 17 | 231 | 29 | 27 | 17 | 6 | 12 | 354 | 24 | 16 | 25 | 29 | 787 |
| 15:45 | 19 | 237 | 25 | 9 | 27 | 12 | 9 | 359 | 17 | 17 | 37 | 21 | 789 |
| 16:00 | 12 | 268 | 25 | 17 | 13 | 5 | 6 | 342 | 14 | 20 | 29 | 22 | 773 |
| 16:15 | 14 | 233 | 21 | 21 | 10 | 10 | 16 | 346 | 13 | 23 | 46 | 21 | 774 |
| 16:30 | 9 | 258 | 32 | 27 | 22 | 8 | 18 | 373 | 16 | 21 | 29 | 18 | 831 |
| 16:45 | 15 | 267 | 31 | 15 | 26 | 11 | 21 | 399 | 24 | 24 | 45 | 22 | 900 |
| 17:00 | 19 | 255 | 37 | 24 | 22 | 9 | 16 | 342 | 16 | 9 | 24 | 23 | 796 |
| 17:15 | 32 | 242 | 32 | 22 | 33 | 7 | 15 | 339 | 19 | 11 | 47 | 27 | 826 |
| 17:30 | 18 | 277 | 35 | 25 | 20 | 10 | 23 | 388 | 15 | 19 | 34 | 21 | 885 |
| 17:45 | 31 | 265 | 34 | 40 | 20 | 18 | 22 | 341 | 19 | 22 | 33 | 26 | 871 |
| Total Volume: | 215 | 3044 | 357 | 262 | 234 | 114 | 191 | 4231 | 199 | 219 | 388 | 289 | 9743 |
| Approach % | 6% | 84% | 10% | 43% | 38% | 19% | 4% | 92% | 4% | 24% | 43% | 32% | |

| **Peak Hr Begin:** | 16:45 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PHV | 84 | 1041 | 135 | 86 | 101 | 37 | 75 | 1468 | 74 | 63 | 150 | 93 | 3407 |
| PHF | 0.955 | | | 0.903 | | | 0.910 | | | 0.841 | | | 0.946 |

Prepared by City Count, LLC. (www.citycount.com)

# Pedestrian/Bicycle Count Report

| | North | | East | | South | | West | |
|---|---|---|---|---|---|---|---|---|
| Leg: | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* |
| 7:00 | 9 | 0 | 5 | 2 | 1 | 2 | 11 | 0 |
| 7:15 | 2 | 0 | 6 | 0 | 4 | 0 | 36 | 2 |
| 7:30 | 1 | 1 | 12 | 0 | 5 | 1 | 20 | 5 |
| 7:45 | 4 | 1 | 35 | 4 | 9 | 1 | 42 | 5 |
| 8:00 | 7 | 0 | 5 | 3 | 8 | 2 | 20 | 2 |
| 8:15 | 2 | 0 | 12 | 3 | 11 | 0 | 20 | 1 |
| 8:30 | 6 | 2 | 11 | 4 | 5 | 0 | 25 | 2 |
| 8:45 | 0 | 0 | 17 | 3 | 5 | 2 | 23 | 4 |
| 9:00 | 7 | 0 | 16 | 4 | 6 | 0 | 22 | 1 |
| 9:15 | 5 | 0 | 20 | 11 | 2 | 0 | 23 | 4 |
| 9:30 | 1 | 0 | 17 | 12 | 4 | 0 | 22 | 2 |
| 9:45 | 3 | 0 | 30 | 13 | 5 | 1 | 39 | 11 |

| | North | | East | | South | | West | |
|---|---|---|---|---|---|---|---|---|
| Leg: | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* |
| 15:00 | 12 | 1 | 21 | 6 | 24 | 0 | 76 | 1 |
| 15:15 | 5 | 0 | 25 | 7 | 8 | 2 | 55 | 6 |
| 15:30 | 5 | 1 | 34 | 7 | 12 | 1 | 92 | 10 |
| 15:45 | 9 | 0 | 22 | 9 | 10 | 5 | 65 | 13 |
| 16:00 | 3 | 0 | 24 | 7 | 7 | 1 | 69 | 5 |
| 16:15 | 13 | 4 | 33 | 4 | 15 | 0 | 67 | 6 |
| 16:30 | 15 | 0 | 20 | 5 | 11 | 0 | 73 | 2 |
| 16:45 | 15 | 1 | 29 | 12 | 13 | 1 | 75 | 10 |
| 17:00 | 13 | 0 | 37 | 3 | 12 | 0 | 104 | 12 |
| 17:15 | 7 | 1 | 14 | 2 | 3 | 2 | 81 | 11 |
| 17:30 | 11 | 1 | 22 | 5 | 5 | 1 | 100 | 14 |
| 17:45 | 16 | 7 | 33 | 5 | 6 | 1 | 105 | 13 |

# Turning Movement Count Report AM

Location ID: 2
North/South: Flower Street
East/West: 30th Street

Date: 11/17/16
City: Los Angeles, CA

| | *Southbound* | | | *Westbound* | | | *Northbound* | | | *Eastbound* | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | Totals: |
| Movements: | R | T | L | R | T | L | R | T | L | R | T | L | |
| 7:00 | 5 | 76 | 1 | 0 | 32 | 4 | 0 | 0 | 0 | 10 | 19 | 0 | 147 |
| 7:15 | 8 | 116 | 1 | 0 | 22 | 5 | 0 | 0 | 0 | 8 | 16 | 0 | 176 |
| 7:30 | 9 | 72 | 0 | 0 | 73 | 4 | 0 | 0 | 0 | 11 | 42 | 0 | 211 |
| 7:45 | 5 | 119 | 6 | 0 | 54 | 5 | 0 | 0 | 0 | 9 | 37 | 0 | 235 |
| 8:00 | 10 | 90 | 4 | 0 | 36 | 3 | 0 | 0 | 0 | 11 | 34 | 0 | 188 |
| 8:15 | 11 | 79 | 1 | 0 | 24 | 3 | 0 | 0 | 0 | 11 | 20 | 0 | 149 |
| 8:30 | 15 | 92 | 4 | 0 | 30 | 1 | 0 | 0 | 0 | 11 | 29 | 0 | 182 |
| 8:45 | 16 | 102 | 3 | 0 | 16 | 5 | 0 | 0 | 0 | 6 | 26 | 0 | 174 |
| 9:00 | 8 | 86 | 2 | 0 | 14 | 6 | 0 | 0 | 0 | 12 | 30 | 0 | 158 |
| 9:15 | 13 | 102 | 3 | 0 | 16 | 3 | 0 | 0 | 0 | 7 | 9 | 0 | 153 |
| 9:30 | 13 | 98 | 6 | 0 | 21 | 2 | 0 | 0 | 0 | 9 | 17 | 0 | 166 |
| 9:45 | 18 | 99 | 3 | 0 | 13 | 1 | 0 | 0 | 0 | 9 | 12 | 0 | 155 |
| Total Volume: | 131 | 1131 | 34 | 0 | 351 | 42 | 0 | 0 | 0 | 114 | 291 | 0 | 2094 |
| Approach % | 10% | 87% | 3% | 0% | 89% | 11% | 0% | 0% | 0% | 28% | 72% | 0% | |
| **Peak Hr Begin:** | 7:15 | | | | | | | | | | | | |
| PHV | 32 | 397 | 11 | 0 | 185 | 17 | 0 | 0 | 0 | 39 | 129 | 0 | 810 |
| PHF | 0.846 | | | 0.656 | | | 0.000 | | | 0.792 | | | 0.862 |

Prepared by City Count, LLC. (www.citycount.com)

# Turning Movement Count Report PM

Location ID: 2
North/South: Flower Street
East/West: 30th Street

Date: 11/17/16
City: Los Angeles, CA

| | *Southbound* | | | *Westbound* | | | *Northbound* | | | *Eastbound* | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | Totals: |
| Movements: | R | T | L | R | T | L | R | T | L | R | T | L | |
| 15:00 | 17 | 164 | 3 | 0 | 27 | 4 | 0 | 0 | 0 | 24 | 37 | 0 | 276 |
| 15:15 | 16 | 191 | 6 | 0 | 26 | 5 | 0 | 0 | 0 | 17 | 36 | 0 | 297 |
| 15:30 | 21 | 206 | 10 | 0 | 27 | 4 | 0 | 0 | 0 | 19 | 46 | 0 | 333 |
| 15:45 | 18 | 227 | 5 | 0 | 25 | 8 | 0 | 0 | 0 | 41 | 32 | 0 | 356 |
| 16:00 | 16 | 249 | 7 | 0 | 18 | 11 | 0 | 0 | 0 | 32 | 27 | 0 | 360 |
| 16:15 | 20 | 231 | 7 | 0 | 36 | 13 | 0 | 0 | 0 | 32 | 39 | 0 | 378 |
| 16:30 | 10 | 213 | 7 | 0 | 41 | 16 | 0 | 0 | 0 | 31 | 53 | 0 | 371 |
| 16:45 | 22 | 271 | 13 | 0 | 40 | 25 | 0 | 0 | 0 | 33 | 44 | 0 | 448 |
| 17:00 | 18 | 229 | 12 | 0 | 44 | 14 | 0 | 0 | 0 | 21 | 62 | 0 | 400 |
| 17:15 | 14 | 250 | 8 | 0 | 39 | 19 | 0 | 0 | 0 | 15 | 67 | 0 | 412 |
| 17:30 | 19 | 238 | 7 | 0 | 64 | 14 | 0 | 0 | 0 | 26 | 66 | 0 | 434 |
| 17:45 | 16 | 300 | 13 | 0 | 62 | 18 | 0 | 0 | 0 | 31 | 46 | 0 | 486 |
| Total Volume: | 207 | 2769 | 98 | 0 | 449 | 151 | 0 | 0 | 0 | 322 | 555 | 0 | 4551 |
| Approach % | 7% | 90% | 3% | 0% | 75% | 25% | 0% | 0% | 0% | 37% | 63% | 0% | |

| **Peak Hr Begin:** | 17:00 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PHV | 67 | 1017 | 40 | 0 | 209 | 65 | 0 | 0 | 0 | 93 | 241 | 0 | 1732 |
| PHF | 0.854 | | | 0.856 | | | 0.000 | | | 0.908 | | | 0.891 |

Prepared by City Count, LLC. (www.citycount.com)

# Pedestrian/Bicycle Count Report

| | North | | East | | South | | West | |
|---|---|---|---|---|---|---|---|---|
| Leg: | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* |
| 7:00 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 2 |
| 7:15 | 1 | 1 | 0 | 0 | 3 | 1 | 6 | 1 |
| 7:30 | 2 | 0 | 0 | 0 | 1 | 0 | 2 | 3 |
| 7:45 | 3 | 0 | 0 | 0 | 1 | 1 | 5 | 4 |
| 8:00 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 1 |
| 8:15 | 4 | 1 | 0 | 0 | 2 | 0 | 4 | 0 |
| 8:30 | 5 | 1 | 0 | 0 | 3 | 0 | 9 | 3 |
| 8:45 | 3 | 0 | 0 | 0 | 5 | 0 | 2 | 1 |
| 9:00 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 5 |
| 9:15 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 1 |
| 9:30 | 1 | 0 | 0 | 0 | 7 | 0 | 3 | 3 |
| 9:45 | 5 | 0 | 0 | 0 | 3 | 0 | 0 | 2 |

| | North | | East | | South | | West | |
|---|---|---|---|---|---|---|---|---|
| Leg: | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* |
| 15:00 | 5 | 0 | 0 | 0 | 8 | 0 | 2 | 1 |
| 15:15 | 3 | 0 | 0 | 0 | 3 | 1 | 4 | 3 |
| 15:30 | 1 | 0 | 0 | 0 | 3 | 0 | 3 | 4 |
| 15:45 | 0 | 0 | 0 | 0 | 3 | 1 | 5 | 5 |
| 16:00 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 1 |
| 16:15 | 4 | 2 | 0 | 0 | 3 | 0 | 3 | 2 |
| 16:30 | 5 | 0 | 0 | 0 | 2 | 0 | 5 | 4 |
| 16:45 | 5 | 0 | 0 | 0 | 2 | 0 | 3 | 1 |
| 17:00 | 2 | 0 | 0 | 0 | 6 | 0 | 6 | 3 |
| 17:15 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 4 |
| 17:30 | 1 | 2 | 0 | 0 | 1 | 1 | 8 | 2 |
| 17:45 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 1 |

# Turning Movement Count Report AM

Location ID: 3
North/South: Figueroa Street
East/West: Jefferson Street

Date: 11/17/16
City: Los Angeles, CA

| | *Southbound* | | | *Westbound* | | | *Northbound* | | | *Eastbound* | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | Totals: |
| Movements: | R | T | L | R | T | L | R | T | L | R | T | L | |
| 7:00 | 47 | 147 | 14 | 28 | 81 | 21 | 11 | 413 | 55 | 27 | 96 | 10 | 950 |
| 7:15 | 19 | 107 | 20 | 52 | 169 | 22 | 12 | 478 | 64 | 26 | 121 | 19 | 1109 |
| 7:30 | 28 | 147 | 40 | 64 | 156 | 16 | 14 | 396 | 66 | 35 | 93 | 10 | 1065 |
| 7:45 | 32 | 185 | 34 | 53 | 128 | 26 | 32 | 434 | 62 | 34 | 99 | 22 | 1141 |
| 8:00 | 29 | 140 | 21 | 35 | 124 | 21 | 25 | 382 | 52 | 40 | 103 | 18 | 990 |
| 8:15 | 31 | 111 | 16 | 41 | 140 | 29 | 38 | 361 | 49 | 31 | 106 | 17 | 970 |
| 8:30 | 25 | 122 | 21 | 50 | 134 | 22 | 39 | 362 | 59 | 33 | 98 | 18 | 983 |
| 8:45 | 29 | 123 | 22 | 58 | 136 | 28 | 27 | 353 | 43 | 36 | 101 | 21 | 977 |
| 9:00 | 30 | 140 | 25 | 41 | 123 | 26 | 22 | 311 | 50 | 56 | 90 | 23 | 937 |
| 9:15 | 37 | 113 | 26 | 43 | 101 | 25 | 14 | 305 | 49 | 49 | 92 | 29 | 883 |
| 9:30 | 24 | 149 | 23 | 38 | 97 | 25 | 12 | 276 | 34 | 45 | 60 | 14 | 797 |
| 9:45 | 23 | 141 | 28 | 38 | 93 | 25 | 24 | 269 | 50 | 47 | 71 | 25 | 834 |
| Total Volume: | 354 | 1625 | 290 | 541 | 1482 | 286 | 270 | 4340 | 633 | 459 | 1130 | 226 | 11636 |
| Approach % | 16% | 72% | 13% | 23% | 64% | 12% | 5% | 83% | 12% | 25% | 62% | 12% | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Peak Hr Begin:** | 7:15 | | | | | | | | | | | | |
| PHV | 108 | 579 | 115 | 204 | 577 | 85 | 83 | 1690 | 244 | 135 | 416 | 69 | 4305 |
| PHF | 0.799 | | | 0.891 | | | 0.910 | | | 0.934 | | | 0.943 |

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# Turning Movement Count Report PM

Location ID: 3
North/South: Figueroa Street
East/West: Jefferson Street

Date: 11/17/16
City: Los Angeles, CA

| | *Southbound* | | | *Westbound* | | | *Northbound* | | | *Eastbound* | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | Totals: |
| Movements: | R | T | L | R | T | L | R | T | L | R | T | L | |
| 15:00 | 27 | 209 | 35 | 47 | 118 | 27 | 24 | 254 | 39 | 65 | 121 | 35 | 1001 |
| 15:15 | 35 | 200 | 46 | 42 | 112 | 29 | 21 | 261 | 39 | 66 | 131 | 44 | 1026 |
| 15:30 | 28 | 178 | 28 | 58 | 136 | 23 | 33 | 302 | 56 | 64 | 133 | 42 | 1081 |
| 15:45 | 21 | 233 | 31 | 50 | 125 | 43 | 29 | 303 | 45 | 56 | 152 | 40 | 1128 |
| 16:00 | 32 | 240 | 38 | 58 | 143 | 34 | 36 | 252 | 42 | 70 | 131 | 27 | 1103 |
| 16:15 | 27 | 232 | 34 | 38 | 153 | 36 | 23 | 268 | 39 | 67 | 140 | 34 | 1091 |
| 16:30 | 31 | 206 | 49 | 66 | 166 | 37 | 27 | 273 | 54 | 72 | 140 | 34 | 1155 |
| 16:45 | 25 | 260 | 30 | 53 | 147 | 30 | 30 | 335 | 47 | 60 | 163 | 37 | 1217 |
| 17:00 | 34 | 215 | 46 | 54 | 180 | 36 | 34 | 284 | 51 | 71 | 161 | 40 | 1206 |
| 17:15 | 28 | 198 | 42 | 46 | 175 | 30 | 38 | 296 | 66 | 83 | 161 | 34 | 1197 |
| 17:30 | 21 | 249 | 44 | 49 | 195 | 38 | 28 | 293 | 52 | 78 | 148 | 30 | 1225 |
| 17:45 | 28 | 262 | 48 | 50 | 166 | 29 | 17 | 285 | 50 | 90 | 140 | 37 | 1202 |
| Total Volume: | 337 | 2682 | 471 | 611 | 1816 | 392 | 340 | 3406 | 580 | 842 | 1721 | 434 | 13632 |
| Approach % | 10% | 77% | 13% | 22% | 64% | 14% | 8% | 79% | 13% | 28% | 57% | 14% | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Peak Hr Begin:** | 16:45 | | | | | | | | | | | | |
| PHV | 108 | 922 | 162 | 202 | 697 | 134 | 130 | 1208 | 216 | 292 | 633 | 141 | 4845 |
| PHF | 0.946 | | | 0.916 | | | 0.943 | | | 0.959 | | | 0.989 |

Prepared by City Count, LLC. (www.citycount.com)

# Pedestrian/Bicycle Count Report

| | North | | East | | South | | West | |
|---|---|---|---|---|---|---|---|---|
| Leg: | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* |
| 7:00 | 12 | 2 | 9 | 2 | 23 | 3 | 39 | 5 |
| 7:15 | 13 | 2 | 16 | 1 | 18 | 1 | 26 | 2 |
| 7:30 | 19 | 0 | 15 | 0 | 20 | 1 | 55 | 6 |
| 7:45 | 32 | 1 | 28 | 1 | 56 | 7 | 200 | 13 |
| 8:00 | 14 | 1 | 12 | 1 | 24 | 2 | 72 | 8 |
| 8:15 | 25 | 1 | 11 | 1 | 21 | 6 | 36 | 0 |
| 8:30 | 24 | 1 | 20 | 0 | 22 | 3 | 52 | 7 |
| 8:45 | 11 | 3 | 17 | 1 | 38 | 6 | 63 | 5 |
| 9:00 | 17 | 3 | 13 | 2 | 15 | 3 | 58 | 6 |
| 9:15 | 8 | 2 | 14 | 4 | 15 | 2 | 63 | 14 |
| 9:30 | 7 | 0 | 12 | 0 | 22 | 2 | 71 | 6 |
| 9:45 | 30 | 1 | 18 | 7 | 25 | 9 | 147 | 13 |

| | North | | East | | South | | West | |
|---|---|---|---|---|---|---|---|---|
| Leg: | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* |
| 15:00 | 37 | 0 | 12 | 0 | 37 | 2 | 100 | 13 |
| 15:15 | 32 | 2 | 24 | 1 | 35 | 8 | 107 | 13 |
| 15:30 | 40 | 2 | 23 | 4 | 35 | 7 | 120 | 19 |
| 15:45 | 20 | 1 | 18 | 5 | 36 | 4 | 168 | 19 |
| 16:00 | 35 | 2 | 21 | 2 | 21 | 5 | 101 | 10 |
| 16:15 | 39 | 2 | 23 | 0 | 32 | 2 | 185 | 9 |
| 16:30 | 36 | 0 | 20 | 3 | 40 | 5 | 141 | 12 |
| 16:45 | 33 | 0 | 23 | 5 | 41 | 9 | 163 | 8 |
| 17:00 | 40 | 2 | 17 | 1 | 33 | 4 | 209 | 12 |
| 17:15 | 40 | 2 | 20 | 2 | 25 | 4 | 133 | 14 |
| 17:30 | 21 | 1 | 24 | 0 | 24 | 5 | 156 | 14 |
| 17:45 | 31 | 1 | 18 | 1 | 19 | 3 | 188 | 20 |

# Turning Movement Count Report AM

Location ID: 4
North/South: Flower Street
East/West: Jefferson Street

Date: 11/29/16
City: Los Angeles, CA

| | *Southbound* | | | *Westbound* | | | *Northbound* | | | *Eastbound* | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | Totals: |
| Movements: | R | T | L | R | T | L | R | T | L | R | T | L | |
| 7:00 | 8 | 80 | 10 | 0 | 192 | 14 | 0 | 0 | 0 | 28 | 103 | 0 | 435 |
| 7:15 | 10 | 77 | 18 | 0 | 220 | 15 | 0 | 0 | 0 | 36 | 87 | 0 | 463 |
| 7:30 | 17 | 114 | 15 | 0 | 247 | 15 | 0 | 0 | 0 | 34 | 140 | 0 | 582 |
| 7:45 | 21 | 123 | 28 | 0 | 187 | 21 | 0 | 0 | 0 | 27 | 138 | 0 | 545 |
| 8:00 | 15 | 92 | 22 | 0 | 186 | 21 | 0 | 0 | 0 | 24 | 122 | 0 | 482 |
| 8:15 | 14 | 84 | 19 | 0 | 186 | 15 | 0 | 0 | 0 | 38 | 116 | 0 | 472 |
| 8:30 | 16 | 63 | 17 | 0 | 192 | 14 | 0 | 0 | 0 | 24 | 108 | 0 | 434 |
| 8:45 | 21 | 82 | 8 | 0 | 191 | 19 | 0 | 0 | 0 | 26 | 101 | 0 | 448 |
| 9:00 | 15 | 84 | 12 | 0 | 125 | 19 | 0 | 0 | 0 | 41 | 95 | 0 | 391 |
| 9:15 | 15 | 92 | 8 | 0 | 130 | 24 | 0 | 0 | 0 | 35 | 76 | 0 | 380 |
| 9:30 | 29 | 80 | 13 | 0 | 152 | 15 | 0 | 0 | 0 | 23 | 78 | 0 | 390 |
| 9:45 | 21 | 104 | 11 | 0 | 142 | 16 | 0 | 0 | 0 | 33 | 80 | 0 | 407 |
| Total Volume: | 202 | 1075 | 181 | 0 | 2150 | 208 | 0 | 0 | 0 | 369 | 1244 | 0 | 5429 |
| Approach % | 14% | 74% | 12% | 0% | 91% | 9% | 0% | 0% | 0% | 23% | 77% | 0% | |

| **Peak Hr Begin:** | 7:30 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PHV | 67 | 413 | 84 | 0 | 806 | 72 | 0 | 0 | 0 | 123 | 516 | 0 | 2081 |
| PHF | 0.820 | | | 0.838 | | | 0.000 | | | 0.918 | | | 0.894 |

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# Turning Movement Count Report PM

Location ID: 4
North/South: Flower Street
East/West: Jefferson Street

Date: 11/29/16
City: Los Angeles, CA

| | *Southbound* | | | *Westbound* | | | *Northbound* | | | *Eastbound* | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | Totals: |
| Movements: | R | T | L | R | T | L | R | T | L | R | T | L | |
| 15:00 | 16 | 160 | 24 | 0 | 165 | 25 | 0 | 0 | 0 | 55 | 144 | 0 | 589 |
| 15:15 | 15 | 161 | 23 | 0 | 162 | 26 | 0 | 0 | 0 | 59 | 145 | 0 | 591 |
| 15:30 | 18 | 190 | 28 | 0 | 180 | 34 | 0 | 0 | 0 | 41 | 144 | 0 | 635 |
| 15:45 | 25 | 227 | 28 | 0 | 199 | 28 | 0 | 0 | 0 | 48 | 145 | 0 | 700 |
| 16:00 | 22 | 253 | 41 | 0 | 163 | 40 | 0 | 0 | 0 | 64 | 158 | 0 | 741 |
| 16:15 | 24 | 225 | 21 | 0 | 203 | 41 | 0 | 0 | 0 | 47 | 179 | 0 | 740 |
| 16:30 | 12 | 254 | 32 | 0 | 224 | 32 | 0 | 0 | 0 | 41 | 180 | 0 | 775 |
| 16:45 | 20 | 216 | 28 | 0 | 220 | 33 | 0 | 0 | 0 | 50 | 172 | 0 | 739 |
| 17:00 | 25 | 299 | 37 | 0 | 241 | 35 | 0 | 0 | 0 | 38 | 169 | 0 | 844 |
| 17:15 | 40 | 213 | 35 | 0 | 213 | 37 | 0 | 0 | 0 | 49 | 196 | 0 | 783 |
| 17:30 | 20 | 232 | 34 | 0 | 203 | 26 | 0 | 0 | 0 | 32 | 151 | 0 | 698 |
| 17:45 | 19 | 223 | 36 | 0 | 246 | 46 | 0 | 0 | 0 | 58 | 168 | 0 | 796 |
| Total Volume: | 256 | 2653 | 367 | 0 | 2419 | 403 | 0 | 0 | 0 | 582 | 1951 | 0 | 8631 |
| Approach % | 8% | 81% | 11% | 0% | 86% | 14% | 0% | 0% | 0% | 23% | 77% | 0% | |

| **Peak Hr Begin:** | 16:30 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PHV | 97 | 982 | 132 | 0 | 898 | 137 | 0 | 0 | 0 | 178 | 717 | 0 | 3141 |
| PHF | 0.839 | | | 0.938 | | | 0.000 | | | 0.913 | | | 0.930 |

# Pedestrian/Bicycle Count Report

| | North | | East | | South | | West | |
|---|---|---|---|---|---|---|---|---|
| Leg: | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* |
| 7:00 | 25 | 2 | 2 | 0 | 6 | 4 | 0 | 1 |
| 7:15 | 46 | 2 | 1 | 0 | 28 | 2 | 6 | 1 |
| 7:30 | 43 | 2 | 0 | 2 | 37 | 0 | 4 | 0 |
| 7:45 | 39 | 2 | 0 | 0 | 38 | 2 | 1 | 5 |
| 8:00 | 39 | 1 | 0 | 0 | 21 | 0 | 3 | 3 |
| 8:15 | 36 | 2 | 0 | 0 | 17 | 0 | 4 | 1 |
| 8:30 | 24 | 1 | 0 | 0 | 22 | 2 | 0 | 2 |
| 8:45 | 19 | 2 | 0 | 0 | 27 | 0 | 0 | 2 |
| 9:00 | 35 | 3 | 0 | 0 | 12 | 2 | 7 | 0 |
| 9:15 | 19 | 4 | 1 | 0 | 17 | 1 | 4 | 1 |
| 9:30 | 30 | 2 | 0 | 0 | 22 | 4 | 3 | 0 |
| 9:45 | 28 | 0 | 0 | 0 | 23 | 0 | 2 | 0 |

| | North | | East | | South | | West | |
|---|---|---|---|---|---|---|---|---|
| Leg: | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* |
| 15:00 | 33 | 1 | 5 | 0 | 27 | 2 | 2 | 0 |
| 15:15 | 33 | 10 | 3 | 0 | 34 | 1 | 6 | 3 |
| 15:30 | 35 | 3 | 11 | 0 | 28 | 2 | 1 | 1 |
| 15:45 | 30 | 4 | 5 | 0 | 31 | 4 | 1 | 5 |
| 16:00 | 38 | 2 | 2 | 0 | 32 | 3 | 5 | 2 |
| 16:15 | 49 | 1 | 6 | 0 | 28 | 5 | 2 | 0 |
| 16:30 | 52 | 2 | 4 | 0 | 33 | 2 | 4 | 0 |
| 16:45 | 60 | 1 | 2 | 0 | 26 | 2 | 3 | 2 |
| 17:00 | 56 | 3 | 2 | 0 | 35 | 1 | 4 | 3 |
| 17:15 | 35 | 4 | 2 | 0 | 29 | 2 | 3 | 0 |
| 17:30 | 68 | 7 | 0 | 0 | 16 | 1 | 5 | 1 |
| 17:45 | 55 | 6 | 3 | 0 | 12 | 0 | 4 | 2 |

# Turning Movement Count Report AM

Location ID: 5
North/South: Figueroa Street
East/West: 32nd Street

Date: 11/17/16
City: Los Angeles, CA

| | *Southbound* | | | *Westbound* | | | *Northbound* | | | *Eastbound* | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | Totals: |
| Movements: | R | T | L | R | T | L | R | T | L | R | T | L | |
| 7:00 | 13 | 110 | 0 | 0 | 0 | 0 | 0 | 453 | 14 | 30 | 0 | 6 | 626 |
| 7:15 | 17 | 125 | 0 | 0 | 0 | 0 | 0 | 507 | 42 | 26 | 0 | 19 | 736 |
| 7:30 | 24 | 209 | 0 | 0 | 0 | 0 | 0 | 370 | 41 | 42 | 0 | 21 | 707 |
| 7:45 | 21 | 221 | 0 | 0 | 0 | 0 | 0 | 437 | 35 | 35 | 0 | 23 | 772 |
| 8:00 | 14 | 166 | 0 | 0 | 0 | 0 | 0 | 402 | 17 | 17 | 0 | 14 | 630 |
| 8:15 | 11 | 155 | 0 | 0 | 0 | 0 | 0 | 412 | 17 | 19 | 0 | 10 | 624 |
| 8:30 | 13 | 157 | 0 | 0 | 0 | 0 | 0 | 411 | 19 | 16 | 0 | 13 | 629 |
| 8:45 | 17 | 175 | 0 | 0 | 0 | 0 | 0 | 455 | 17 | 24 | 0 | 10 | 698 |
| 9:00 | 16 | 172 | 0 | 0 | 0 | 0 | 0 | 403 | 18 | 21 | 0 | 9 | 639 |
| 9:15 | 13 | 170 | 0 | 0 | 0 | 0 | 0 | 385 | 12 | 16 | 0 | 9 | 605 |
| 9:30 | 19 | 191 | 0 | 0 | 0 | 0 | 0 | 315 | 18 | 19 | 0 | 6 | 568 |
| 9:45 | 20 | 188 | 0 | 0 | 0 | 0 | 0 | 301 | 23 | 22 | 0 | 9 | 563 |
| Total Volume: | 198 | 2039 | 0 | 0 | 0 | 0 | 0 | 4851 | 273 | 287 | 0 | 149 | 7797 |
| Approach % | 9% | 91% | 0% | 0% | 0% | 0% | 0% | 95% | 5% | 66% | 0% | 34% | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Peak Hr Begin:** | 7:15 | | | | | | | | | | | | |
| PHV | 76 | 721 | 0 | 0 | 0 | 0 | 0 | 1716 | 135 | 120 | 0 | 77 | 2845 |
| PHF | 0.823 | | | 0.000 | | | 0.843 | | | 0.782 | | | 0.921 |

Prepared by City Count, LLC. (www.citycount.com)

# Turning Movement Count Report PM

Location ID: 5
North/South: Figueroa Street
East/West: 32nd Street

Date: 11/17/16
City: Los Angeles, CA

| | *Southbound* | | | *Westbound* | | | *Northbound* | | | *Eastbound* | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | Totals: |
| Movements: | R | T | L | R | T | L | R | T | L | R | T | L | |
| 15:00 | 24 | 241 | 0 | 0 | 0 | 0 | 0 | 331 | 25 | 63 | 0 | 48 | 732 |
| 15:15 | 14 | 236 | 0 | 0 | 0 | 0 | 0 | 361 | 20 | 54 | 0 | 31 | 716 |
| 15:30 | 22 | 210 | 0 | 0 | 0 | 0 | 0 | 378 | 32 | 52 | 0 | 28 | 722 |
| 15:45 | 26 | 218 | 0 | 0 | 0 | 0 | 0 | 374 | 34 | 59 | 0 | 31 | 742 |
| 16:00 | 22 | 283 | 0 | 0 | 0 | 0 | 0 | 352 | 25 | 48 | 0 | 34 | 764 |
| 16:15 | 18 | 230 | 0 | 0 | 0 | 0 | 0 | 352 | 25 | 55 | 0 | 29 | 709 |
| 16:30 | 35 | 250 | 0 | 0 | 0 | 0 | 0 | 367 | 25 | 73 | 0 | 37 | 787 |
| 16:45 | 16 | 259 | 0 | 0 | 0 | 0 | 0 | 396 | 21 | 60 | 0 | 28 | 780 |
| 17:00 | 13 | 241 | 0 | 0 | 0 | 0 | 0 | 377 | 28 | 79 | 0 | 47 | 785 |
| 17:15 | 18 | 224 | 0 | 0 | 0 | 0 | 0 | 372 | 28 | 58 | 0 | 56 | 756 |
| 17:30 | 33 | 266 | 0 | 0 | 0 | 0 | 0 | 379 | 32 | 65 | 0 | 45 | 820 |
| 17:45 | 15 | 281 | 0 | 0 | 0 | 0 | 0 | 375 | 33 | 75 | 0 | 38 | 817 |
| Total Volume: | 256 | 2939 | 0 | 0 | 0 | 0 | 0 | 4414 | 328 | 741 | 0 | 452 | 9130 |
| Approach % | 8% | 92% | 0% | 0% | 0% | 0% | 0% | 93% | 7% | 62% | 0% | 38% | |

| **Peak Hr Begin:** | 17:00 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PHV | 79 | 1012 | 0 | 0 | 0 | 0 | 0 | 1503 | 121 | 277 | 0 | 186 | 3178 |
| PHF | 0.912 | | | 0.000 | | | 0.988 | | | 0.919 | | | 0.969 |

# Pedestrian/Bicycle Count Report

| | North | | East | | South | | West | |
|---|---|---|---|---|---|---|---|---|
| Leg: | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* |
| 7:00 | 0 | 0 | 0 | 0 | 1 | 1 | 27 | 1 |
| 7:15 | 0 | 0 | 0 | 0 | 8 | 0 | 28 | 5 |
| 7:30 | 0 | 0 | 0 | 0 | 8 | 0 | 36 | 5 |
| 7:45 | 1 | 1 | 0 | 0 | 6 | 0 | 55 | 4 |
| 8:00 | 0 | 0 | 0 | 0 | 2 | 0 | 29 | 4 |
| 8:15 | 0 | 0 | 0 | 0 | 7 | 0 | 22 | 2 |
| 8:30 | 2 | 0 | 0 | 0 | 3 | 0 | 22 | 5 |
| 8:45 | 4 | 0 | 0 | 0 | 4 | 0 | 35 | 5 |
| 9:00 | 1 | 1 | 0 | 0 | 3 | 2 | 32 | 3 |
| 9:15 | 2 | 2 | 0 | 0 | 5 | 0 | 47 | 12 |
| 9:30 | 0 | 0 | 0 | 0 | 3 | 0 | 37 | 1 |
| 9:45 | 1 | 1 | 0 | 0 | 2 | 0 | 68 | 20 |

| | North | | East | | South | | West | |
|---|---|---|---|---|---|---|---|---|
| Leg: | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* | *Peds* | *Bicycle* |
| 15:00 | 10 | 0 | 0 | 0 | 21 | 2 | 79 | 4 |
| 15:15 | 8 | 1 | 0 | 0 | 11 | 2 | 105 | 12 |
| 15:30 | 3 | 0 | 0 | 0 | 9 | 4 | 118 | 6 |
| 15:45 | 8 | 0 | 0 | 0 | 10 | 1 | 105 | 11 |
| 16:00 | 10 | 2 | 0 | 0 | 15 | 0 | 96 | 6 |
| 16:15 | 8 | 0 | 0 | 0 | 25 | 0 | 98 | 10 |
| 16:30 | 6 | 0 | 0 | 0 | 16 | 2 | 88 | 3 |
| 16:45 | 4 | 1 | 0 | 0 | 18 | 0 | 136 | 13 |
| 17:00 | 3 | 0 | 0 | 0 | 22 | 0 | 135 | 14 |
| 17:15 | 1 | 0 | 0 | 0 | 20 | 1 | 142 | 14 |
| 17:30 | 12 | 1 | 0 | 0 | 29 | 1 | 110 | 17 |
| 17:45 | 13 | 0 | 0 | 0 | 10 | 2 | 175 | 16 |

# *Attachment C*

# *Level of Service Worksheets*

***Morning Peak Hour***

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Figueroa St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | East-West Street: | 30th St | Projection Year: | 2019 | Peak Hour: | AM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 |

| | MOVEMENT | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 55 | 1 | 55 | 1 | 56 | 56 | 0 | 57 | 1 | 57 | 1 | 58 | 1 | 58 | 0 | 58 | 1 | 58 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1762 | 3 | **449** | 5 | 1767 | **450** | 0 | 1815 | 2 | **908** | 5 | 1820 | 2 | **910** | 0 | 1820 | 2 | **910** |
| | Through-Right | | 1 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 34 | 0 | 34 | 0 | 34 | 34 | 0 | 35 | 1 | 24 | 0 | 35 | 1 | 24 | 0 | 35 | 1 | 24 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 64 | 1 | **64** | 0 | 64 | **64** | 0 | 66 | 1 | **66** | 0 | 66 | 1 | **66** | 0 | 66 | 1 | **66** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 720 | 2 | 360 | 1 | 721 | 361 | 0 | 742 | 2 | 371 | 1 | 743 | 2 | 372 | 0 | 743 | 2 | 372 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 48 | 1 | 11 | 0 | 48 | 11 | 0 | 49 | 1 | 11 | 0 | 49 | 1 | 11 | 0 | 49 | 1 | 11 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 75 | 1 | **75** | 0 | 75 | **75** | 0 | 77 | 1 | **77** | 0 | 77 | 1 | **77** | 0 | 77 | 1 | **77** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 73 | 0 | 116 | 0 | 73 | 116 | 0 | 75 | 0 | 119 | 0 | 75 | 0 | 119 | 0 | 75 | 0 | 119 |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 43 | 0 | 0 | 0 | 43 | 0 | 0 | 44 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 44 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 21 | 1 | 21 | 0 | 21 | 21 | 0 | 22 | 1 | 22 | 0 | 22 | 1 | 22 | 0 | 22 | 1 | 22 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 97 | 0 | **161** | 0 | 97 | **161** | 0 | 100 | 0 | **166** | 0 | 100 | 0 | **166** | 0 | 100 | 0 | **166** |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 64 | 0 | 0 | 0 | 64 | 0 | 0 | 66 | 0 | 0 | 0 | 66 | 0 | 0 | 0 | 66 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | *North-South:* | | 513 | *North-South:* | | 514 | *North-South:* | | | 974 | *North-South:* | | | 976 | *North-South:* | | | 976 |
| | | *East-West:* | | 236 | *East-West:* | | 236 | *East-West:* | | | 243 | *East-West:* | | | 243 | *East-West:* | | | 243 |
| | | *SUM:* | | 749 | *SUM:* | | 750 | *SUM:* | | | 1217 | *SUM:* | | | 1219 | *SUM:* | | | 1219 |
| VOLUME/CAPACITY *(V/C)* RATIO: | | | | 0.499 | | | 0.500 | | | | 0.811 | | | | 0.813 | | | | 0.813 |
| *V/C* LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.399** | | | **0.400** | | | | **0.711** | | | | **0.713** | | | | **0.713** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **C** | | | | **C** | | | | **C** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.002 | Δ*v/c* after mitigation: | 0.002 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Flower St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | East-West Street: | 30th St | Projection Year: | 2019 | Peak Hour: | AM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | | 3 | | | | 3 | | | | 3 | | | | 3 | | | | 3 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- | 0 | SB-- | 0 | NB-- | 0 | SB-- | 0 | NB-- | 0 | SB-- | 0 | NB-- | 0 | SB-- | 0 | NB-- | 0 | SB-- | 0 |
| | EB-- | 0 | WB-- | 0 | EB-- | 0 | WB-- | 0 | EB-- | 0 | WB-- | 0 | EB-- | 0 | WB-- | 0 | EB-- | 0 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 |
| Override Capacity | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |

| MOVEMENT | | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 11 | 1 | 11 | 0 | 11 | 11 | 0 | 11 | 1 | 11 | 0 | 11 | 1 | 11 | 0 | 11 | 1 | 11 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 397 | 2 | **199** | 1 | 398 | **199** | 0 | 409 | 2 | **205** | 1 | 410 | 2 | **205** | 0 | 410 | 2 | **205** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 32 | 1 | 32 | 0 | 32 | 32 | 0 | 33 | 1 | 33 | 0 | 33 | 1 | 33 | 0 | 33 | 1 | 33 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 129 | 0 | **168** | 0 | 129 | **168** | 0 | 133 | 0 | **173** | 0 | 133 | 0 | **173** | 0 | 133 | 0 | **173** |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 39 | 0 | 0 | 0 | 39 | 0 | 0 | 40 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 40 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 17 | 1 | **17** | 0 | 17 | **17** | 0 | 18 | 1 | **18** | 0 | 18 | 1 | **18** | 0 | 18 | 1 | **18** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 185 | 0 | 185 | 0 | 185 | 185 | 0 | 191 | 0 | 191 | 0 | 191 | 0 | 191 | 0 | 191 | 0 | 191 |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | | *North-South:* | 199 | | *North-South:* | 199 | | | *North-South:* | 205 | | | *North-South:* | 205 | | | *North-South:* | 205 |
| | | | *East-West:* | 185 | | *East-West:* | 185 | | | *East-West:* | 191 | | | *East-West:* | 191 | | | *East-West:* | 191 |
| | | | *SUM:* | 384 | | *SUM:* | 384 | | | *SUM:* | 396 | | | *SUM:* | 396 | | | *SUM:* | 396 |
| VOLUME/CAPACITY *(V/C)* RATIO: | | | | 0.269 | | | 0.269 | | | | 0.278 | | | | 0.278 | | | | 0.278 |
| *V/C* LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.169** | | | **0.169** | | | | **0.178** | | | | **0.178** | | | | **0.178** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **A** | | | | **A** | | | | **A** |

***REMARKS:***

**Version: 1i Beta; 8/4/2011**

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.000 | Δ*v/c* after mitigation: | 0.000 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Figueroa St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | East-West Street: | Jefferson Blvd | Projection Year: | 2019 | Peak Hour: | AM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 4 | | | | 4 | | | | 4 | | | | 4 | | | | 4 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 |

| MOVEMENT | | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 244 | 1 | 244 | 0 | 244 | 244 | 0 | 251 | 1 | 251 | 0 | 251 | 1 | 251 | 0 | 251 | 1 | 251 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1690 | 3 | **443** | 1 | 1691 | **444** | 0 | 1741 | 2 | **871** | 1 | 1742 | 2 | **871** | 0 | 1742 | 2 | **871** |
| | Through-Right | | 1 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 83 | 0 | 83 | 0 | 83 | 83 | 0 | 86 | 1 | 42 | 0 | 86 | 1 | 42 | 0 | 86 | 1 | 42 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 115 | 1 | **115** | 0 | 115 | **115** | 0 | 118 | 1 | **118** | 0 | 118 | 1 | **118** | 0 | 118 | 1 | **118** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 579 | 2 | 290 | 2 | 581 | 291 | 0 | 597 | 2 | 299 | 2 | 599 | 2 | 300 | 0 | 599 | 2 | 300 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 108 | 1 | 89 | 2 | 110 | 91 | 0 | 111 | 1 | 92 | 2 | 113 | 1 | 93 | 0 | 113 | 1 | 93 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 69 | 2 | **38** | 1 | 70 | **39** | 0 | 71 | 2 | **39** | 1 | 72 | 2 | **40** | 0 | 72 | 2 | **40** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 416 | 3 | 139 | 0 | 416 | 139 | 0 | 429 | 3 | 143 | 0 | 429 | 3 | 143 | 0 | 429 | 3 | 143 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 135 | 1 | 0 | 0 | 135 | 0 | 0 | 139 | 1 | 0 | 0 | 139 | 1 | 0 | 0 | 139 | 1 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 85 | 1 | 85 | 0 | 85 | 85 | 0 | 88 | 1 | 88 | 0 | 88 | 1 | 88 | 0 | 88 | 1 | 88 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 577 | 2 | **289** | 2 | 579 | **290** | 0 | 594 | 2 | **297** | 2 | 596 | 2 | **298** | 0 | 596 | 2 | **298** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 204 | 1 | 147 | 1 | 205 | 148 | 0 | 210 | 1 | 151 | 1 | 211 | 1 | 152 | 0 | 211 | 1 | 152 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | *North-South:* | | 558 | *North-South:* | | 559 | *North-South:* | | | 989 | *North-South:* | | | 989 | *North-South:* | | | 989 |
| | | *East-West:* | | 327 | *East-West:* | | 329 | *East-West:* | | | 336 | *East-West:* | | | 338 | *East-West:* | | | 338 |
| | | *SUM:* | | 885 | *SUM:* | | 888 | *SUM:* | | | 1325 | *SUM:* | | | 1327 | *SUM:* | | | 1327 |
| VOLUME/CAPACITY *(V/C)* RATIO: | | | | 0.644 | | | 0.646 | | | | 0.964 | | | | 0.965 | | | | 0.965 |
| *V/C* LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.544** | | | **0.546** | | | | **0.864** | | | | **0.865** | | | | **0.865** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **D** | | | | **D** | | | | **D** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.001 | Δ*v/c* after mitigation: | 0.001 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Flower St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | East-West Street: | Jefferson Blvd | Projection Year: | 2019 | Peak Hour: | AM | Reviewed by: | | Project: | 31st St Student Housing |

| | Existing Condition | Existing Plus Project | Future Condition W/O Project | Future Condition W/ Project | Future W/ Project W/ Mitigation |
|---|---|---|---|---|---|
| No. of Phases | 3 | 3 | 3 | 3 | 3 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | 0 | 0 | 0 | 0 | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 |
| ATSAC-1 or ATSAC+ATCS-2? | 2 | 2 | 2 | 2 | 2 |
| Override Capacity | 0 | 0 | 0 | 0 | 0 |

| | MOVEMENT | Existing Condition Volume | No. of Lanes | Lane Volume | Existing Plus Project Project Traffic | Total Volume | Lane Volume | Future Condition W/O Project Added Volume | Total Volume | No. of Lanes | Lane Volume | Future Condition W/ Project Added Volume | Total Volume | No. of Lanes | Lane Volume | Future W/ Project W/ Mitigation Added Volume | Total Volume | No. of Lanes | Lane Volume |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NORTHBOUND | Left | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 84 | 1 | 84 | 0 | 84 | 84 | 0 | 87 | 1 | 87 | 0 | 87 | 1 | 87 | 0 | 87 | 1 | 87 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 413 | 2 | **207** | 3 | 416 | **208** | 0 | 426 | 2 | **213** | 3 | 429 | 2 | **215** | 0 | 429 | 2 | **215** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 67 | 1 | 67 | 2 | 69 | 69 | 0 | 69 | 1 | 69 | 2 | 71 | 1 | 71 | 0 | 71 | 1 | 71 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 0 | 1 | **0** | 0 | 0 | **0** | 0 | 0 | 1 | **0** | 0 | 0 | 1 | **0** | 0 | 0 | 1 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 516 | 2 | 258 | 0 | 516 | 258 | 0 | 532 | 2 | 266 | 0 | 532 | 2 | 266 | 0 | 532 | 2 | 266 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 123 | 0 | 0 | 0 | 123 | 0 | 0 | 127 | 0 | 0 | 0 | 127 | 0 | 0 | 0 | 127 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 72 | 0 | 0 | 0 | 72 | 0 | 0 | 74 | 0 | 0 | 0 | 74 | 0 | 0 | 0 | 74 | 0 | 0 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 806 | 2 | **403** | 1 | 807 | **404** | 0 | 830 | 2 | **415** | 1 | 831 | 2 | **416** | 0 | 831 | 2 | **416** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | *North-South:* | | 207 | *North-South:* | | 208 | *North-South:* | | | 213 | *North-South:* | | | 215 | *North-South:* | | | 215 |
| | | *East-West:* | | 403 | *East-West:* | | 404 | *East-West:* | | | 415 | *East-West:* | | | 416 | *East-West:* | | | 416 |
| | | *SUM:* | | 610 | *SUM:* | | 612 | *SUM:* | | | 628 | *SUM:* | | | 631 | *SUM:* | | | 631 |
| VOLUME/CAPACITY *(V/C)* RATIO: | | | | 0.428 | | | 0.429 | | | | 0.441 | | | | 0.443 | | | | 0.443 |
| *V/C* LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.328** | | | **0.329** | | | | **0.341** | | | | **0.343** | | | | **0.343** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **A** | | | | **A** | | | | **A** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.002 | Δ*v/c* after mitigation: | 0.002 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Figueroa St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 | East-West Street: | 32nd St | Projection Year: | 2019 | Peak Hour: | AM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 |

| MOVEMENT | | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 135 | 1 | **135** | 0 | 135 | **135** | 0 | 139 | 1 | 139 | 0 | 139 | 1 | 139 | 0 | 139 | 1 | 139 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1716 | 4 | 429 | 2 | 1718 | 430 | 0 | 1768 | 2 | **884** | 2 | 1770 | 2 | **885** | 0 | 1770 | 2 | **885** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 721 | 2 | **361** | 3 | 724 | **362** | 0 | 743 | 2 | 372 | 3 | 746 | 2 | 373 | 0 | 746 | 2 | 373 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 76 | 1 | 38 | 2 | 78 | 40 | 0 | 78 | 1 | 39 | 2 | 80 | 1 | 41 | 0 | 80 | 1 | 41 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 77 | 1 | **77** | 0 | 77 | **77** | 0 | 79 | 1 | **79** | 0 | 79 | 1 | **79** | 0 | 79 | 1 | **79** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 120 | 1 | 53 | 0 | 120 | 53 | 0 | 124 | 1 | 55 | 0 | 124 | 1 | 55 | 0 | 124 | 1 | 55 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | North-South: | | 496 | North-South: | | 497 | North-South: | | | 884 | North-South: | | | 885 | North-South: | | | 885 |
| | | East-West: | | 77 | East-West: | | 77 | East-West: | | | 79 | East-West: | | | 79 | East-West: | | | 79 |
| | | SUM: | | 573 | SUM: | | 574 | SUM: | | | 963 | SUM: | | | 964 | SUM: | | | 964 |
| VOLUME/CAPACITY (V/C) RATIO: | | | | 0.382 | | | 0.383 | | | | 0.642 | | | | 0.643 | | | | 0.643 |
| V/C LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.282** | | | **0.283** | | | | **0.542** | | | | **0.543** | | | | **0.543** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **A** | | | | **A** | | | | **A** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.001 | Δ*v/c* after mitigation: | 0.001 |
| Significant impacted? | NO | Fully mitigated? | N/A |

## *Afternoon Peak Hour*

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Figueroa St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | East-West Street: | 30th St | Projection Year: | 2019 | Peak Hour: | PM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 |

| | MOVEMENT | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 74 | 1 | 74 | 0 | 74 | 74 | 0 | 76 | 1 | 76 | 0 | 76 | 1 | 76 | 0 | 76 | 1 | 76 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1468 | 3 | **489** | 2 | 1470 | **490** | 0 | 1512 | 2 | **756** | 2 | 1514 | 2 | **757** | 0 | 1514 | 2 | **757** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 75 | 1 | 57 | 0 | 75 | 57 | 0 | 77 | 1 | 58 | 0 | 77 | 1 | 58 | 0 | 77 | 1 | 58 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 135 | 1 | **135** | 0 | 135 | **135** | 0 | 139 | 1 | **139** | 0 | 139 | 1 | **139** | 0 | 139 | 1 | **139** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1041 | 2 | 521 | 3 | 1044 | 522 | 0 | 1073 | 2 | 537 | 3 | 1076 | 2 | 538 | 0 | 1076 | 2 | 538 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 84 | 1 | 38 | 0 | 84 | 38 | 0 | 87 | 1 | 39 | 0 | 87 | 1 | 39 | 0 | 87 | 1 | 39 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 93 | 1 | **93** | 0 | 93 | **93** | 0 | 96 | 1 | **96** | 0 | 96 | 1 | **96** | 0 | 96 | 1 | **96** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 150 | 0 | 213 | 0 | 150 | 214 | 0 | 155 | 0 | 220 | 0 | 155 | 0 | 221 | 0 | 155 | 0 | 221 |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 63 | 0 | 0 | 1 | 64 | 0 | 0 | 65 | 0 | 0 | 1 | 66 | 0 | 0 | 0 | 66 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 37 | 1 | 37 | 0 | 37 | 37 | 0 | 38 | 1 | 38 | 0 | 38 | 1 | 38 | 0 | 38 | 1 | 38 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 101 | 0 | **187** | 0 | 101 | **187** | 0 | 104 | 0 | **193** | 0 | 104 | 0 | **193** | 0 | 104 | 0 | **193** |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 86 | 0 | 0 | 0 | 86 | 0 | 0 | 89 | 0 | 0 | 0 | 89 | 0 | 0 | 0 | 89 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | *North-South:* | | 624 | *North-South:* | | 625 | *North-South:* | | | 895 | *North-South:* | | | 896 | *North-South:* | | | 896 |
| | | *East-West:* | | 280 | *East-West:* | | 280 | *East-West:* | | | 289 | *East-West:* | | | 289 | *East-West:* | | | 289 |
| | | *SUM:* | | 904 | *SUM:* | | 905 | *SUM:* | | | 1184 | *SUM:* | | | 1185 | *SUM:* | | | 1185 |
| VOLUME/CAPACITY *(V/C)* RATIO: | | | | 0.603 | | | 0.603 | | | | 0.789 | | | | 0.790 | | | | 0.790 |
| *V/C* LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.503** | | | **0.503** | | | | **0.689** | | | | **0.690** | | | | **0.690** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **B** | | | | **B** | | | | **B** |

***REMARKS:***

**Version: 1i Beta; 8/4/2011**

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.001 | Δ*v/c* after mitigation: | 0.001 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Flower St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | East-West Street: | 30th St | Projection Year: | 2019 | Peak Hour: | PM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | | 3 | | | | 3 | | | | 3 | | | | 3 | | | | 3 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- | 0 | SB-- | 0 | NB-- | 0 | SB-- | 0 | NB-- | 0 | SB-- | 0 | NB-- | 0 | SB-- | 0 | NB-- | 0 | SB-- | 0 |
| | EB-- | 0 | WB-- | 0 | EB-- | 0 | WB-- | 0 | EB-- | 0 | WB-- | 0 | EB-- | 0 | WB-- | 0 | EB-- | 0 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 |
| Override Capacity | | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |

| MOVEMENT | | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 40 | 1 | 40 | 0 | 40 | 40 | 0 | 41 | 1 | 41 | 0 | 41 | 1 | 41 | 0 | 41 | 1 | 41 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1017 | 2 | **361** | 2 | 1019 | **362** | 0 | 1048 | 2 | **372** | 2 | 1050 | 2 | **373** | 0 | 1050 | 2 | **373** |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 67 | 0 | 67 | 0 | 67 | 67 | 0 | 69 | 0 | 69 | 0 | 69 | 0 | 69 | 0 | 69 | 0 | 69 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 241 | 0 | **334** | 0 | 241 | **334** | 0 | 248 | 0 | **344** | 0 | 248 | 0 | **344** | 0 | 248 | 0 | **344** |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 93 | 0 | 0 | 0 | 93 | 0 | 0 | 96 | 0 | 0 | 0 | 96 | 0 | 0 | 0 | 96 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 65 | 1 | **65** | 0 | 65 | **65** | 0 | 67 | 1 | **67** | 0 | 67 | 1 | **67** | 0 | 67 | 1 | **67** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 209 | 0 | 209 | 0 | 209 | 209 | 0 | 215 | 0 | 215 | 0 | 215 | 0 | 215 | 0 | 215 | 0 | 215 |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | | *North-South:* | 361 | | *North-South:* | 362 | | | *North-South:* | 372 | | | *North-South:* | 373 | | | *North-South:* | 373 |
| | | | *East-West:* | 399 | | *East-West:* | 399 | | | *East-West:* | 411 | | | *East-West:* | 411 | | | *East-West:* | 411 |
| | | | *SUM:* | 760 | | *SUM:* | 761 | | | *SUM:* | 783 | | | *SUM:* | 784 | | | *SUM:* | 784 |
| VOLUME/CAPACITY *(V/C)* RATIO: | | | | 0.533 | | | 0.534 | | | | 0.549 | | | | 0.550 | | | | 0.550 |
| *V/C* LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.433** | | | **0.434** | | | | **0.449** | | | | **0.450** | | | | **0.450** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **A** | | | | **A** | | | | **A** |

***REMARKS:***

**Version: 1i Beta; 8/4/2011**

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.001 | Δ*v/c* after mitigation: | 0.001 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Figueroa St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | East-West Street: | Jefferson Blvd | Projection Year: | 2019 | Peak Hour: | PM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 4 | | | | 4 | | | | 4 | | | | 4 | | | | 4 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 |

| MOVEMENT | | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 216 | 1 | **216** | 0 | 216 | **216** | 0 | 223 | 1 | 223 | 0 | 223 | 1 | 223 | 0 | 223 | 1 | 223 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1208 | 3 | 335 | 2 | 1210 | 335 | 0 | 1245 | 2 | **623** | 2 | 1247 | 2 | **624** | 0 | 1247 | 2 | **624** |
| | Through-Right | | 1 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 130 | 0 | 130 | 0 | 130 | 130 | 0 | 134 | 1 | 65 | 0 | 134 | 1 | 65 | 0 | 134 | 1 | 65 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 162 | 1 | 162 | 0 | 162 | 162 | 0 | 167 | 1 | **167** | 0 | 167 | 1 | **167** | 0 | 167 | 1 | **167** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 922 | 2 | **343** | 1 | 923 | **344** | 0 | 950 | 2 | 475 | 1 | 951 | 2 | 476 | 0 | 951 | 2 | 476 |
| | Through-Right | | 1 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 108 | 0 | 108 | 1 | 109 | 109 | 0 | 111 | 1 | 71 | 1 | 112 | 1 | 72 | 0 | 112 | 1 | 72 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 141 | 2 | **78** | 3 | 144 | **79** | 0 | 145 | 2 | **80** | 3 | 148 | 2 | **81** | 0 | 148 | 2 | **81** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 633 | 3 | 211 | 0 | 633 | 211 | 0 | 652 | 3 | 217 | 0 | 652 | 3 | 217 | 0 | 652 | 3 | 217 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 292 | 1 | 76 | 0 | 292 | 76 | 0 | 301 | 1 | 78 | 0 | 301 | 1 | 78 | 0 | 301 | 1 | 78 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 134 | 1 | 134 | 0 | 134 | 134 | 0 | 138 | 1 | 138 | 0 | 138 | 1 | 138 | 0 | 138 | 1 | 138 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 697 | 2 | **349** | 1 | 698 | **349** | 0 | 718 | 2 | **359** | 1 | 719 | 2 | **360** | 0 | 719 | 2 | **360** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 202 | 1 | 121 | 2 | 204 | 123 | 0 | 208 | 1 | 125 | 2 | 210 | 1 | 127 | 0 | 210 | 1 | 127 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | North-South: | | 559 | North-South: | | 560 | North-South: | | | 790 | North-South: | | | 791 | North-South: | | | 791 |
| | | East-West: | | 427 | East-West: | | 428 | East-West: | | | 439 | East-West: | | | 441 | East-West: | | | 441 |
| | | SUM: | | 986 | SUM: | | 988 | SUM: | | | 1229 | SUM: | | | 1232 | SUM: | | | 1232 |
| VOLUME/CAPACITY (V/C) RATIO: | | | | 0.717 | | | 0.719 | | | | 0.894 | | | | 0.896 | | | | 0.896 |
| V/C LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.617** | | | **0.619** | | | | **0.794** | | | | **0.796** | | | | **0.796** |
| LEVEL OF SERVICE (LOS): | | | | **B** | | | **B** | | | | **C** | | | | **C** | | | | **C** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.002 | Δ*v/c* after mitigation: | 0.002 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Flower St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | East-West Street: | Jefferson Blvd | Projection Year: | 2019 | Peak Hour: | PM | Reviewed by: | | Project: | 31st St Student Housing |

| | Existing Condition | Existing Plus Project | Future Condition W/O Project | Future Condition W/ Project | Future W/ Project W/ Mitigation |
|---|---|---|---|---|---|
| No. of Phases | 3 | 3 | 3 | 3 | 3 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | 0 | 0 | 0 | 0 | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 |
| ATSAC-1 or ATSAC+ATCS-2? | 2 | 2 | 2 | 2 | 2 |
| Override Capacity | 0 | 0 | 0 | 0 | 0 |

| | MOVEMENT | Existing Condition Volume | No. of Lanes | Lane Volume | Existing Plus Project Project Traffic | Total Volume | Lane Volume | Future Condition W/O Project Added Volume | Total Volume | No. of Lanes | Lane Volume | Future Condition W/ Project Added Volume | Total Volume | No. of Lanes | Lane Volume | Future W/ Project W/ Mitigation Added Volume | Total Volume | No. of Lanes | Lane Volume |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NORTHBOUND | Left | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 132 | 1 | 132 | 0 | 132 | 132 | 0 | 136 | 1 | 136 | 0 | 136 | 1 | 136 | 0 | 136 | 1 | 136 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 982 | 2 | **360** | 1 | 983 | **360** | 0 | 1012 | 2 | **371** | 1 | 1013 | 2 | **371** | 0 | 1013 | 2 | **371** |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 97 | 0 | 97 | 1 | 98 | 98 | 0 | 100 | 0 | 100 | 1 | 101 | 0 | 101 | 0 | 101 | 0 | 101 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 0 | 1 | **0** | 0 | 0 | **0** | 0 | 0 | 1 | **0** | 0 | 0 | 1 | **0** | 0 | 0 | 1 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 717 | 2 | 359 | 0 | 717 | 359 | 0 | 739 | 2 | 370 | 0 | 739 | 2 | 370 | 0 | 739 | 2 | 370 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 178 | 0 | 0 | 0 | 178 | 0 | 0 | 183 | 0 | 0 | 0 | 183 | 0 | 0 | 0 | 183 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 137 | 0 | 0 | 0 | 137 | 0 | 0 | 141 | 0 | 0 | 0 | 141 | 0 | 0 | 0 | 141 | 0 | 0 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 898 | 2 | **449** | 2 | 900 | **450** | 0 | 925 | 2 | **463** | 2 | 927 | 2 | **464** | 0 | 927 | 2 | **464** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | *North-South:* | | 360 | *North-South:* | | 360 | *North-South:* | | | 371 | *North-South:* | | | 371 | *North-South:* | | | 371 |
| | | *East-West:* | | 449 | *East-West:* | | 450 | *East-West:* | | | 463 | *East-West:* | | | 464 | *East-West:* | | | 464 |
| | | *SUM:* | | 809 | *SUM:* | | 810 | *SUM:* | | | 834 | *SUM:* | | | 835 | *SUM:* | | | 835 |
| VOLUME/CAPACITY *(V/C)* RATIO: | | | | 0.568 | | | 0.568 | | | | 0.585 | | | | 0.586 | | | | 0.586 |
| *V/C* LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.468** | | | **0.468** | | | | **0.485** | | | | **0.486** | | | | **0.486** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **A** | | | | **A** | | | | **A** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.001 | Δ*v/c* after mitigation: | 0.001 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Figueroa St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 | East-West Street: | 32nd St | Projection Year: | 2019 | Peak Hour: | PM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 |

| MOVEMENT | | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 121 | 1 | 121 | 0 | 121 | 121 | 0 | 125 | 1 | 125 | 0 | 125 | 1 | 125 | 0 | 125 | 1 | 125 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1503 | 3 | **501** | 8 | 1511 | **504** | 0 | 1549 | 2 | **775** | 8 | 1557 | 2 | **779** | 0 | 1557 | 2 | **779** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1012 | 2 | 364 | 1 | 1013 | 364 | 0 | 1043 | 2 | 522 | 1 | 1044 | 2 | 522 | 0 | 1044 | 2 | 522 |
| | Through-Right | | 1 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 79 | 0 | 79 | 1 | 80 | 80 | 0 | 81 | 1 | 0 | 1 | 82 | 1 | 0 | 0 | 82 | 1 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 186 | 1 | 186 | 2 | 188 | 188 | 0 | 192 | 1 | 192 | 2 | 194 | 1 | 194 | 0 | 194 | 1 | 194 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 277 | 1 | **217** | 0 | 277 | **217** | 0 | 285 | 1 | **223** | 0 | 285 | 1 | **223** | 0 | 285 | 1 | **223** |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | North-South: | | 501 | North-South: | | 504 | North-South: | | | 775 | North-South: | | | 779 | North-South: | | | 779 |
| | | East-West: | | 217 | East-West: | | 217 | East-West: | | | 223 | East-West: | | | 223 | East-West: | | | 223 |
| | | SUM: | | 718 | SUM: | | 721 | SUM: | | | 998 | SUM: | | | 1002 | SUM: | | | 1002 |
| VOLUME/CAPACITY (V/C) RATIO: | | | | 0.479 | | | 0.481 | | | | 0.665 | | | | 0.668 | | | | 0.668 |
| V/C LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.379** | | | **0.381** | | | | **0.565** | | | | **0.568** | | | | **0.568** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **A** | | | | **A** | | | | **A** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.003 | Δ*v/c* after mitigation: | 0.003 |
| Significant impacted? | NO | Fully mitigated? | N/A |

***Morning Peak Hour***

***Supplemental Analysis Based on Total Residents***

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Figueroa St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | East-West Street: | 30th St | Projection Year: | 2019 | Peak Hour: | AM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 |

| | MOVEMENT | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 55 | 1 | 55 | 2 | 57 | 57 | 0 | 57 | 1 | 57 | 2 | 59 | 1 | 59 | 0 | 59 | 1 | 59 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1762 | 3 | **449** | 13 | 1775 | **452** | 0 | 1815 | 2 | **908** | 13 | 1828 | 2 | **914** | 0 | 1828 | 2 | **914** |
| | Through-Right | | 1 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 34 | 0 | 34 | 0 | 34 | 34 | 0 | 35 | 1 | 24 | 0 | 35 | 1 | 24 | 0 | 35 | 1 | 24 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 64 | 1 | **64** | 0 | 64 | **64** | 0 | 66 | 1 | **66** | 0 | 66 | 1 | **66** | 0 | 66 | 1 | **66** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 720 | 2 | 360 | 2 | 722 | 361 | 0 | 742 | 2 | 371 | 2 | 744 | 2 | 372 | 0 | 744 | 2 | 372 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 48 | 1 | 11 | 0 | 48 | 11 | 0 | 49 | 1 | 11 | 0 | 49 | 1 | 11 | 0 | 49 | 1 | 11 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 75 | 1 | **75** | 0 | 75 | **75** | 0 | 77 | 1 | **77** | 0 | 77 | 1 | **77** | 0 | 77 | 1 | **77** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 73 | 0 | 116 | 0 | 73 | 116 | 0 | 75 | 0 | 119 | 0 | 75 | 0 | 119 | 0 | 75 | 0 | 119 |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 43 | 0 | 0 | 0 | 43 | 0 | 0 | 44 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 44 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 21 | 1 | 21 | 0 | 21 | 21 | 0 | 22 | 1 | 22 | 0 | 22 | 1 | 22 | 0 | 22 | 1 | 22 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 97 | 0 | **161** | 0 | 97 | **161** | 0 | 100 | 0 | **166** | 0 | 100 | 0 | **166** | 0 | 100 | 0 | **166** |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 64 | 0 | 0 | 0 | 64 | 0 | 0 | 66 | 0 | 0 | 0 | 66 | 0 | 0 | 0 | 66 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | *North-South:* | | 513 | *North-South:* | | 516 | *North-South:* | | | 974 | *North-South:* | | | 980 | *North-South:* | | | 980 |
| | | *East-West:* | | 236 | *East-West:* | | 236 | *East-West:* | | | 243 | *East-West:* | | | 243 | *East-West:* | | | 243 |
| | | *SUM:* | | 749 | *SUM:* | | 752 | *SUM:* | | | 1217 | *SUM:* | | | 1223 | *SUM:* | | | 1223 |
| VOLUME/CAPACITY *(V/C)* RATIO: | | | | 0.499 | | | 0.501 | | | | 0.811 | | | | 0.815 | | | | 0.815 |
| *V/C* LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.399** | | | **0.401** | | | | **0.711** | | | | **0.715** | | | | **0.715** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **C** | | | | **C** | | | | **C** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.004 | Δ*v/c* after mitigation: | 0.004 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Flower St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | East-West Street: | 30th St | Projection Year: | 2019 | Peak Hour: | AM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 3 | | | 3 | | | 3 | | | 3 | | | 3 | | | | 3 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | | 0 |

| MOVEMENT | | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 11 | 1 | 11 | 0 | 11 | 11 | 0 | 11 | 1 | 11 | 0 | 11 | 1 | 11 | 0 | 11 | 1 | 11 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 397 | 2 | **199** | 1 | 398 | **199** | 0 | 409 | 2 | **205** | 1 | 410 | 2 | **205** | 0 | 410 | 2 | **205** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 32 | 1 | 32 | 0 | 32 | 32 | 0 | 33 | 1 | 33 | 0 | 33 | 1 | 33 | 0 | 33 | 1 | 33 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 129 | 0 | **168** | 0 | 129 | **168** | 0 | 133 | 0 | **173** | 0 | 133 | 0 | **173** | 0 | 133 | 0 | **173** |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 39 | 0 | 0 | 0 | 39 | 0 | 0 | 40 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 40 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 17 | 1 | **17** | 0 | 17 | **17** | 0 | 18 | 1 | **18** | 0 | 18 | 1 | **18** | 0 | 18 | 1 | **18** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 185 | 0 | 185 | 0 | 185 | 185 | 0 | 191 | 0 | 191 | 0 | 191 | 0 | 191 | 0 | 191 | 0 | 191 |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | *North-South:* | | 199 | *North-South:* | | 199 | *North-South:* | | | 205 | *North-South:* | | | 205 | *North-South:* | | | 205 |
| | | *East-West:* | | 185 | *East-West:* | | 185 | *East-West:* | | | 191 | *East-West:* | | | 191 | *East-West:* | | | 191 |
| | | *SUM:* | | 384 | *SUM:* | | 384 | *SUM:* | | | 396 | *SUM:* | | | 396 | *SUM:* | | | 396 |
| VOLUME/CAPACITY *(V/C)* RATIO: | | | | 0.269 | | | 0.269 | | | | 0.278 | | | | 0.278 | | | | 0.278 |
| *V/C* LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.169** | | | **0.169** | | | | **0.178** | | | | **0.178** | | | | **0.178** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **A** | | | | **A** | | | | **A** |

***REMARKS:***

**Version: 1i Beta; 8/4/2011**

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.000 | Δ*v/c* after mitigation: | 0.000 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Figueroa St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | East-West Street: | Jefferson Blvd | Projection Year: | 2019 | Peak Hour: | AM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 4 | | | | 4 | | | | 4 | | | | 4 | | | | 4 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 |

| MOVEMENT | | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 244 | 1 | 244 | 0 | 244 | 244 | 0 | 251 | 1 | 251 | 0 | 251 | 1 | 251 | 0 | 251 | 1 | 251 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1690 | 3 | **443** | 1 | 1691 | **444** | 0 | 1741 | 2 | **871** | 1 | 1742 | 2 | **871** | 0 | 1742 | 2 | **871** |
| | Through-Right | | 1 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 83 | 0 | 83 | 0 | 83 | 83 | 0 | 86 | 1 | 42 | 0 | 86 | 1 | 42 | 0 | 86 | 1 | 42 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 115 | 1 | **115** | 0 | 115 | **115** | 0 | 118 | 1 | **118** | 0 | 118 | 1 | **118** | 0 | 118 | 1 | **118** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 579 | 2 | 290 | 4 | 583 | 292 | 0 | 597 | 2 | 299 | 4 | 601 | 2 | 301 | 0 | 601 | 2 | 301 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 108 | 1 | 89 | 4 | 112 | 93 | 0 | 111 | 1 | 92 | 4 | 115 | 1 | 95 | 0 | 115 | 1 | 95 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 69 | 2 | **38** | 2 | 71 | **39** | 0 | 71 | 2 | **39** | 2 | 73 | 2 | **40** | 0 | 73 | 2 | **40** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 416 | 3 | 139 | 0 | 416 | 139 | 0 | 429 | 3 | 143 | 0 | 429 | 3 | 143 | 0 | 429 | 3 | 143 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 135 | 1 | 0 | 0 | 135 | 0 | 0 | 139 | 1 | 0 | 0 | 139 | 1 | 0 | 0 | 139 | 1 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 85 | 1 | 85 | 0 | 85 | 85 | 0 | 88 | 1 | 88 | 0 | 88 | 1 | 88 | 0 | 88 | 1 | 88 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 577 | 2 | **289** | 4 | 581 | **291** | 0 | 594 | 2 | **297** | 4 | 598 | 2 | **299** | 0 | 598 | 2 | **299** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 204 | 1 | 147 | 1 | 205 | 148 | 0 | 210 | 1 | 151 | 1 | 211 | 1 | 152 | 0 | 211 | 1 | 152 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | *North-South:* | | 558 | *North-South:* | | 559 | *North-South:* | | | 989 | *North-South:* | | | 989 | *North-South:* | | | 989 |
| | | *East-West:* | | 327 | *East-West:* | | 330 | *East-West:* | | | 336 | *East-West:* | | | 339 | *East-West:* | | | 339 |
| | | *SUM:* | | 885 | *SUM:* | | 889 | *SUM:* | | | 1325 | *SUM:* | | | 1328 | *SUM:* | | | 1328 |
| VOLUME/CAPACITY *(V/C)* RATIO: | | | | 0.644 | | | 0.647 | | | | 0.964 | | | | 0.966 | | | | 0.966 |
| *V/C* LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.544** | | | **0.547** | | | | **0.864** | | | | **0.866** | | | | **0.866** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **D** | | | | **D** | | | | **D** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.002 | Δ*v/c* after mitigation: | 0.002 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Flower St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | East-West Street: | Jefferson Blvd | Projection Year: | 2019 | Peak Hour: | AM | Reviewed by: | | Project: | 31st St Student Housing |

| | Existing Condition | Existing Plus Project | Future Condition W/O Project | Future Condition W/ Project | Future W/ Project W/ Mitigation |
|---|---|---|---|---|---|
| No. of Phases | 3 | 3 | 3 | 3 | 3 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | 0 | 0 | 0 | 0 | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 |
| ATSAC-1 or ATSAC+ATCS-2? | 2 | 2 | 2 | 2 | 2 |
| Override Capacity | 0 | 0 | 0 | 0 | 0 |

| | MOVEMENT | Existing Condition Volume | No. of Lanes | Lane Volume | Existing Plus Project Project Traffic | Total Volume | Lane Volume | Future Condition W/O Project Added Volume | Total Volume | No. of Lanes | Lane Volume | Future Condition W/ Project Added Volume | Total Volume | No. of Lanes | Lane Volume | Future W/ Project W/ Mitigation Added Volume | Total Volume | No. of Lanes | Lane Volume |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NORTHBOUND | Left | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 84 | 1 | 84 | 0 | 84 | 84 | 0 | 87 | 1 | 87 | 0 | 87 | 1 | 87 | 0 | 87 | 1 | 87 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 413 | 2 | **207** | 7 | 420 | **210** | 0 | 426 | 2 | **213** | 7 | 433 | 2 | **217** | 0 | 433 | 2 | **217** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 67 | 1 | 67 | 4 | 71 | 71 | 0 | 69 | 1 | 69 | 4 | 73 | 1 | 73 | 0 | 73 | 1 | 73 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 0 | 1 | **0** | 0 | 0 | **0** | 0 | 0 | 1 | **0** | 0 | 0 | 1 | **0** | 0 | 0 | 1 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 516 | 2 | 258 | 0 | 516 | 258 | 0 | 532 | 2 | 266 | 0 | 532 | 2 | 266 | 0 | 532 | 2 | 266 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 123 | 0 | 0 | 0 | 123 | 0 | 0 | 127 | 0 | 0 | 0 | 127 | 0 | 0 | 0 | 127 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 72 | 0 | 0 | 0 | 72 | 0 | 0 | 74 | 0 | 0 | 0 | 74 | 0 | 0 | 0 | 74 | 0 | 0 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 806 | 2 | **403** | 1 | 807 | **404** | 0 | 830 | 2 | **415** | 1 | 831 | 2 | **416** | 0 | 831 | 2 | **416** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | *North-South:* | | 207 | *North-South:* | | 210 | *North-South:* | | | 213 | *North-South:* | | | 217 | *North-South:* | | | 217 |
| | | *East-West:* | | 403 | *East-West:* | | 404 | *East-West:* | | | 415 | *East-West:* | | | 416 | *East-West:* | | | 416 |
| | | *SUM:* | | 610 | *SUM:* | | 614 | *SUM:* | | | 628 | *SUM:* | | | 633 | *SUM:* | | | 633 |
| VOLUME/CAPACITY *(V/C)* RATIO: | | | | 0.428 | | | 0.431 | | | | 0.441 | | | | 0.444 | | | | 0.444 |
| *V/C* LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.328** | | | **0.331** | | | | **0.341** | | | | **0.344** | | | | **0.344** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **A** | | | | **A** | | | | **A** |

***REMARKS:***

**Version: 1i Beta; 8/4/2011**

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.003 | Δ*v/c* after mitigation: | 0.003 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Figueroa St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 | East-West Street: | 32nd St | Projection Year: | 2019 | Peak Hour: | AM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 |

| | MOVEMENT | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 135 | 1 | **135** | 0 | 135 | **135** | 0 | 139 | 1 | 139 | 0 | 139 | 1 | 139 | 0 | 139 | 1 | 139 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1716 | 4 | 429 | 4 | 1720 | 430 | 0 | 1768 | 2 | **884** | 4 | 1772 | 2 | **886** | 0 | 1772 | 2 | **886** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 721 | 2 | **361** | 7 | 728 | **364** | 0 | 743 | 2 | 372 | 7 | 750 | 2 | 375 | 0 | 750 | 2 | 375 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 76 | 1 | 38 | 4 | 80 | 41 | 0 | 78 | 1 | 39 | 4 | 82 | 1 | 42 | 0 | 82 | 1 | 42 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 77 | 1 | **77** | 1 | 78 | **78** | 0 | 79 | 1 | **79** | 1 | 80 | 1 | **80** | 0 | 80 | 1 | **80** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 120 | 1 | 53 | 0 | 120 | 53 | 0 | 124 | 1 | 55 | 0 | 124 | 1 | 55 | 0 | 124 | 1 | 55 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | North-South: | | 496 | North-South: | | 499 | North-South: | | | 884 | North-South: | | | 886 | North-South: | | | 886 |
| | | East-West: | | 77 | East-West: | | 78 | East-West: | | | 79 | East-West: | | | 80 | East-West: | | | 80 |
| | | SUM: | | 573 | SUM: | | 577 | SUM: | | | 963 | SUM: | | | 966 | SUM: | | | 966 |
| VOLUME/CAPACITY (V/C) RATIO: | | | | 0.382 | | | 0.385 | | | | 0.642 | | | | 0.644 | | | | 0.644 |
| V/C LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.282** | | | **0.285** | | | | **0.542** | | | | **0.544** | | | | **0.544** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **A** | | | | **A** | | | | **A** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.002 | Δ*v/c* after mitigation: | 0.002 |
| Significant impacted? | NO | Fully mitigated? | N/A |

## *Afternoon Peak Hour*

## *Supplemental Analysis Based on Total Residents*

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Figueroa St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | East-West Street: | 30th St | Projection Year: | 2019 | Peak Hour: | PM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 |

| | MOVEMENT | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 74 | 1 | 74 | 1 | 75 | 75 | 0 | 76 | 1 | 76 | 1 | 77 | 1 | 77 | 0 | 77 | 1 | 77 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1468 | 3 | **489** | 8 | 1476 | **492** | 0 | 1512 | 2 | **756** | 8 | 1520 | 2 | **760** | 0 | 1520 | 2 | **760** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 75 | 1 | 57 | 0 | 75 | 57 | 0 | 77 | 1 | 58 | 0 | 77 | 1 | 58 | 0 | 77 | 1 | 58 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 135 | 1 | **135** | 0 | 135 | **135** | 0 | 139 | 1 | **139** | 0 | 139 | 1 | **139** | 0 | 139 | 1 | **139** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1041 | 2 | 521 | 8 | 1049 | 525 | 0 | 1073 | 2 | 537 | 8 | 1081 | 2 | 541 | 0 | 1081 | 2 | 541 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 84 | 1 | 38 | 0 | 84 | 38 | 0 | 87 | 1 | 39 | 0 | 87 | 1 | 39 | 0 | 87 | 1 | 39 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 93 | 1 | **93** | 0 | 93 | **93** | 0 | 96 | 1 | **96** | 0 | 96 | 1 | **96** | 0 | 96 | 1 | **96** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 150 | 0 | 213 | 0 | 150 | 215 | 0 | 155 | 0 | 220 | 0 | 155 | 0 | 222 | 0 | 155 | 0 | 222 |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 63 | 0 | 0 | 2 | 65 | 0 | 0 | 65 | 0 | 0 | 2 | 67 | 0 | 0 | 0 | 67 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 37 | 1 | 37 | 0 | 37 | 37 | 0 | 38 | 1 | 38 | 0 | 38 | 1 | 38 | 0 | 38 | 1 | 38 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 101 | 0 | **187** | 0 | 101 | **187** | 0 | 104 | 0 | **193** | 0 | 104 | 0 | **193** | 0 | 104 | 0 | **193** |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 86 | 0 | 0 | 0 | 86 | 0 | 0 | 89 | 0 | 0 | 0 | 89 | 0 | 0 | 0 | 89 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | *North-South:* | | 624 | *North-South:* | | 627 | *North-South:* | | | 895 | *North-South:* | | | 899 | *North-South:* | | | 899 |
| | | *East-West:* | | 280 | *East-West:* | | 280 | *East-West:* | | | 289 | *East-West:* | | | 289 | *East-West:* | | | 289 |
| | | *SUM:* | | 904 | *SUM:* | | 907 | *SUM:* | | | 1184 | *SUM:* | | | 1188 | *SUM:* | | | 1188 |
| VOLUME/CAPACITY *(V/C)* RATIO: | | | | 0.603 | | | 0.605 | | | | 0.789 | | | | 0.792 | | | | 0.792 |
| *V/C* LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.503** | | | **0.505** | | | | **0.689** | | | | **0.692** | | | | **0.692** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **B** | | | | **B** | | | | **B** |

***REMARKS:***

**Version: 1i Beta; 8/4/2011**

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.003 | Δ*v/c* after mitigation: | 0.003 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Flower St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | East-West Street: | 30th St | Projection Year: | 2019 | Peak Hour: | PM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 3 | | | 3 | | | 3 | | | 3 | | | 3 | | | | 3 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | | 0 |

| MOVEMENT | | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 40 | 1 | 40 | 0 | 40 | 40 | 0 | 41 | 1 | 41 | 0 | 41 | 1 | 41 | 0 | 41 | 1 | 41 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1017 | 2 | **361** | 6 | 1023 | **363** | 0 | 1048 | 2 | **372** | 6 | 1054 | 2 | **374** | 0 | 1054 | 2 | **374** |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 67 | 0 | 67 | 0 | 67 | 67 | 0 | 69 | 0 | 69 | 0 | 69 | 0 | 69 | 0 | 69 | 0 | 69 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 241 | 0 | **334** | 0 | 241 | **334** | 0 | 248 | 0 | **344** | 0 | 248 | 0 | **344** | 0 | 248 | 0 | **344** |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 93 | 0 | 0 | 0 | 93 | 0 | 0 | 96 | 0 | 0 | 0 | 96 | 0 | 0 | 0 | 96 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 65 | 1 | **65** | 0 | 65 | **65** | 0 | 67 | 1 | **67** | 0 | 67 | 1 | **67** | 0 | 67 | 1 | **67** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 209 | 0 | 209 | 0 | 209 | 209 | 0 | 215 | 0 | 215 | 0 | 215 | 0 | 215 | 0 | 215 | 0 | 215 |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | North-South: | | 361 | North-South: | | 363 | North-South: | | | 372 | North-South: | | | 374 | North-South: | | | 374 |
| | | East-West: | | 399 | East-West: | | 399 | East-West: | | | 411 | East-West: | | | 411 | East-West: | | | 411 |
| | | SUM: | | 760 | SUM: | | 762 | SUM: | | | 783 | SUM: | | | 785 | SUM: | | | 785 |
| VOLUME/CAPACITY (V/C) RATIO: | | | | 0.533 | | | 0.535 | | | | 0.549 | | | | 0.551 | | | | 0.551 |
| V/C LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.433** | | | **0.435** | | | | **0.449** | | | | **0.451** | | | | **0.451** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **A** | | | | **A** | | | | **A** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.002 | Δ*v/c* after mitigation: | 0.002 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Figueroa St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | East-West Street: | Jefferson Blvd | Projection Year: | 2019 | Peak Hour: | PM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 4 | | | | 4 | | | | 4 | | | | 4 | | | | 4 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 |
| | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 | EB-- 3 | WB-- | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 | | | 2 |
| Override Capacity | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 | | | 0 |

| MOVEMENT | | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 216 | 1 | **216** | 0 | 216 | **216** | 0 | 223 | 1 | 223 | 0 | 223 | 1 | 223 | 0 | 223 | 1 | 223 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1208 | 3 | 335 | 6 | 1214 | 336 | 0 | 1245 | 2 | **623** | 6 | 1251 | 2 | **626** | 0 | 1251 | 2 | **626** |
| | Through-Right | | 1 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 130 | 0 | 130 | 0 | 130 | 130 | 0 | 134 | 1 | 65 | 0 | 134 | 1 | 65 | 0 | 134 | 1 | 65 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 162 | 1 | 162 | 0 | 162 | 162 | 0 | 167 | 1 | **167** | 0 | 167 | 1 | **167** | 0 | 167 | 1 | **167** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 922 | 2 | **343** | 2 | 924 | **345** | 0 | 950 | 2 | 475 | 2 | 952 | 2 | 476 | 0 | 952 | 2 | 476 |
| | Through-Right | | 1 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 108 | 0 | 108 | 2 | 110 | 110 | 0 | 111 | 1 | 71 | 2 | 113 | 1 | 71 | 0 | 113 | 1 | 71 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 141 | 2 | **78** | 8 | 149 | **82** | 0 | 145 | 2 | **80** | 8 | 153 | 2 | **84** | 0 | 153 | 2 | **84** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 633 | 3 | 211 | 0 | 633 | 211 | 0 | 652 | 3 | 217 | 0 | 652 | 3 | 217 | 0 | 652 | 3 | 217 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 292 | 1 | 76 | 0 | 292 | 76 | 0 | 301 | 1 | 78 | 0 | 301 | 1 | 78 | 0 | 301 | 1 | 78 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 134 | 1 | 134 | 0 | 134 | 134 | 0 | 138 | 1 | 138 | 0 | 138 | 1 | 138 | 0 | 138 | 1 | 138 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 697 | 2 | **349** | 2 | 699 | **350** | 0 | 718 | 2 | **359** | 2 | 720 | 2 | **360** | 0 | 720 | 2 | **360** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 202 | 1 | 121 | 6 | 208 | 127 | 0 | 208 | 1 | 125 | 6 | 214 | 1 | 131 | 0 | 214 | 1 | 131 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | North-South: | | 559 | North-South: | | 561 | North-South: | | | 790 | North-South: | | | 793 | North-South: | | | 793 |
| | | East-West: | | 427 | East-West: | | 432 | East-West: | | | 439 | East-West: | | | 444 | East-West: | | | 444 |
| | | SUM: | | 986 | SUM: | | 993 | SUM: | | | 1229 | SUM: | | | 1237 | SUM: | | | 1237 |
| VOLUME/CAPACITY (V/C) RATIO: | | | | 0.717 | | | 0.722 | | | | 0.894 | | | | 0.900 | | | | 0.900 |
| V/C LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.617** | | | **0.622** | | | | **0.794** | | | | **0.800** | | | | **0.800** |
| LEVEL OF SERVICE (LOS): | | | | **B** | | | **B** | | | | **C** | | | | **C** | | | | **C** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.006 | Δ*v/c* after mitigation: | 0.006 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Flower St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | East-West Street: | Jefferson Blvd | Projection Year: | 2019 | Peak Hour: | PM | Reviewed by: | | Project: | 31st St Student Housing |

| | Existing Condition | Existing Plus Project | Future Condition W/O Project | Future Condition W/ Project | Future W/ Project W/ Mitigation |
|---|---|---|---|---|---|
| No. of Phases | 3 | 3 | 3 | 3 | 3 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | 0 | 0 | 0 | 0 | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 | NB-- 0 SB-- 0 EB-- 0 WB-- 0 |
| ATSAC-1 or ATSAC+ATCS-2? | 2 | 2 | 2 | 2 | 2 |
| Override Capacity | 0 | 0 | 0 | 0 | 0 |

| | MOVEMENT | Existing Condition Volume | No. of Lanes | Lane Volume | Existing Plus Project Project Traffic | Total Volume | Lane Volume | Future Condition W/O Project Added Volume | Total Volume | No. of Lanes | Lane Volume | Future Condition W/ Project Added Volume | Total Volume | No. of Lanes | Lane Volume | Future W/ Project W/ Mitigation Added Volume | Total Volume | No. of Lanes | Lane Volume |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NORTHBOUND | Left | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 132 | 1 | 132 | 0 | 132 | 132 | 0 | 136 | 1 | 136 | 0 | 136 | 1 | 136 | 0 | 136 | 1 | 136 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 982 | 2 | **360** | 4 | 986 | **362** | 0 | 1012 | 2 | **371** | 4 | 1016 | 2 | **373** | 0 | 1016 | 2 | **373** |
| | Through-Right | | 1 | | | | | | | 1 | | | | 1 | | | | 1 | |
| | Right | 97 | 0 | 97 | 2 | 99 | 99 | 0 | 100 | 0 | 100 | 2 | 102 | 0 | 102 | 0 | 102 | 0 | 102 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 0 | 1 | **0** | 0 | 0 | **0** | 0 | 0 | 1 | **0** | 0 | 0 | 1 | **0** | 0 | 0 | 1 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 717 | 2 | 359 | 0 | 717 | 359 | 0 | 739 | 2 | 370 | 0 | 739 | 2 | 370 | 0 | 739 | 2 | 370 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 178 | 0 | 0 | 0 | 178 | 0 | 0 | 183 | 0 | 0 | 0 | 183 | 0 | 0 | 0 | 183 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 137 | 0 | 0 | 0 | 137 | 0 | 0 | 141 | 0 | 0 | 0 | 141 | 0 | 0 | 0 | 141 | 0 | 0 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 898 | 2 | **449** | 6 | 904 | **452** | 0 | 925 | 2 | **463** | 6 | 931 | 2 | **466** | 0 | 931 | 2 | **466** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | North-South: | | 360 | North-South: | | 362 | North-South: | | | 371 | North-South: | | | 373 | North-South: | | | 373 |
| | | East-West: | | 449 | East-West: | | 452 | East-West: | | | 463 | East-West: | | | 466 | East-West: | | | 466 |
| | | SUM: | | 809 | SUM: | | 814 | SUM: | | | 834 | SUM: | | | 839 | SUM: | | | 839 |
| VOLUME/CAPACITY (V/C) RATIO: | | | | 0.568 | | | 0.571 | | | | 0.585 | | | | 0.589 | | | | 0.589 |
| V/C LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.468** | | | **0.471** | | | | **0.485** | | | | **0.489** | | | | **0.489** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **A** | | | | **A** | | | | **A** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.004 | Δ*v/c* after mitigation: | 0.004 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Level of Service Worksheet
## (Circular 212 Method)

| I/S #: | North-South Street: | Figueroa St | Year of Count: | 2016 | Ambient Growth: (%): | 1 | Conducted by: | | Date: | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 | East-West Street: | 32nd St | Projection Year: | 2019 | Peak Hour: | PM | Reviewed by: | | Project: | 31st St Student Housing |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of Phases | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 2 |
| Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | | 0 | | | | 0 | | | | 0 | | | | 0 |
| Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB-- 0 | SB-- | 0 | NB-- 0 | SB-- | 0 | NB-- | 0 | SB-- | 0 | NB-- | 0 | SB-- | 0 | NB-- | 0 | SB-- | 0 | 0 |
| | EB-- 0 | WB-- | 0 | EB-- 0 | WB-- | 0 | EB-- | 0 | WB-- | 0 | EB-- | 0 | WB-- | 0 | EB-- | 0 | WB-- | 0 | 0 |
| ATSAC-1 or ATSAC+ATCS-2? | | | 2 | | | 2 | | | | 2 | | | | 2 | | | | 2 | 2 |
| Override Capacity | | | 0 | | | 0 | | | | 0 | | | | 0 | | | | 0 | 0 |

| MOVEMENT | | EXISTING CONDITION | | | EXISTING PLUS PROJECT | | | FUTURE CONDITION W/O PROJECT | | | | FUTURE CONDITION W/ PROJECT | | | | FUTURE W/ PROJECT W/ MITIGATION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Volume | No. of Lanes | Lane Volume | Project Traffic | Total Volume | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume | Added Volume | Total Volume | No. of Lanes | Lane Volume |
| NORTHBOUND | Left | 121 | 1 | 121 | 0 | 121 | 121 | 0 | 125 | 1 | 125 | 0 | 125 | 1 | 125 | 0 | 125 | 1 | 125 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1503 | 3 | **501** | 21 | 1524 | **508** | 0 | 1549 | 2 | **775** | 21 | 1570 | 2 | **785** | 0 | 1570 | 2 | **785** |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| SOUTHBOUND | Left | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 1012 | 2 | 364 | 4 | 1016 | 366 | 0 | 1043 | 2 | 522 | 4 | 1047 | 2 | 524 | 0 | 1047 | 2 | 524 |
| | Through-Right | | 1 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 79 | 0 | 79 | 2 | 81 | 81 | 0 | 81 | 1 | 0 | 2 | 83 | 1 | 0 | 0 | 83 | 1 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| EASTBOUND | Left | 186 | 1 | 186 | 4 | 190 | 190 | 0 | 192 | 1 | 192 | 4 | 196 | 1 | 196 | 0 | 196 | 1 | 196 |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 277 | 1 | **217** | 0 | 277 | **217** | 0 | 285 | 1 | **223** | 0 | 285 | 1 | **223** | 0 | 285 | 1 | **223** |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| WESTBOUND | Left | 0 | 0 | **0** | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** | 0 | 0 | 0 | **0** |
| | Left-Through | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Through | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Right | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Left-Through-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| | Left-Right | | 0 | | | | | | | 0 | | | | 0 | | | | 0 | |
| CRITICAL VOLUMES | | North-South: | | 501 | North-South: | | 508 | North-South: | | | 775 | North-South: | | | 785 | North-South: | | | 785 |
| | | East-West: | | 217 | East-West: | | 217 | East-West: | | | 223 | East-West: | | | 223 | East-West: | | | 223 |
| | | SUM: | | 718 | SUM: | | 725 | SUM: | | | 998 | SUM: | | | 1008 | SUM: | | | 1008 |
| VOLUME/CAPACITY (V/C) RATIO: | | | | 0.479 | | | 0.483 | | | | 0.665 | | | | 0.672 | | | | 0.672 |
| V/C LESS ATSAC/ATCS ADJUSTMENT: | | | | **0.379** | | | **0.383** | | | | **0.565** | | | | **0.572** | | | | **0.572** |
| LEVEL OF SERVICE (LOS): | | | | **A** | | | **A** | | | | **A** | | | | **A** | | | | **A** |

*REMARKS:*

Version: 1i Beta; 8/4/2011

**PROJECT IMPACT**

| | | | |
|---|---|---|---|
| Change in *v/c* due to project: | 0.007 | Δ*v/c* after mitigation: | 0.007 |
| Significant impacted? | NO | Fully mitigated? | N/A |

# Appendix I

Sacred Lands File Search Results

**NATIVE AMERICAN HERITAGE COMMISSION**
**Environmental and Cultural Department**
**1550 Harbor Blvd., Suite 100**
**West Sacramento, CA 95691**
**(916) 373-3710**

August ~~22~~ 23, 2017

Jenna Monterrosa
City of Los Angeles

Sent by E-mail: jenna.monterrosa@lacity.org

RE: Proposed 505 – 517 W. 31st Street Project, City of Los Angeles; Hollywood USGS Quadrangle, Los Angeles County, California

Dear Ms. Monterrosa:

A record search of the Native American Heritage Commission (NAHC) *Sacred Lands File* was completed for the area of potential project effect (APE) referenced above with negative results. Please note that the absence of specific site information in the *Sacred Lands File* does not indicate the absence of Native American cultural resources in any APE.

Attached is a list of tribes culturally affiliated to the project area. I suggest you contact all of the listed Tribes. If they cannot supply information, they might recommend others with specific knowledge. The list should provide a starting place to locate areas of potential adverse impact within the APE. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult. If a response has not been received within two weeks of notification, the NAHC requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact via email: gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton

Gayle Totton, M.A., PhD.
Associate Governmental Program Analyst

**Native American Heritage Commission**
**Native American Contact List**
**Los Angeles County**
**8/23/2017**

***Gabrieleno Band of Mission Indians - Kizh Nation***
Andrew Salas, Chariperson
P.O. Box 393 — Gabrieleno
Covina, CA, 91723
Phone: (626) 926 - 4131
gabrielenoindians@yahoo.com

***Gabrieleno/Tongva San Gabriel Band of Mission Indians***
Anthony Morales, Chairperson
P.O. Box 693 — Gabrieleno
San Gabriel, CA, 91778
Phone: (626) 483 - 3564
Fax: (626) 286-1262
GTTribalcouncil@aol.com

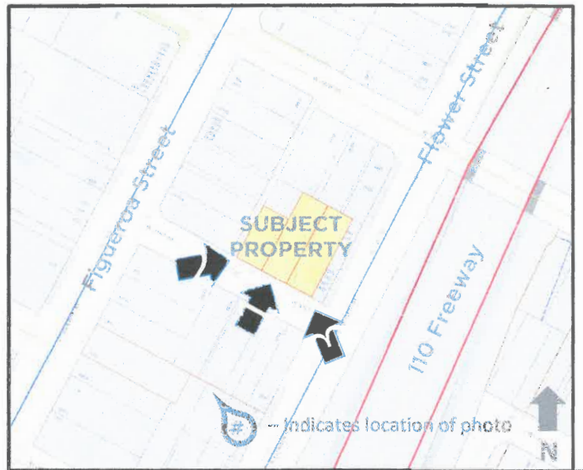
***Gabrielino /Tongva Nation***
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231 — Gabrielino
Los Angeles, CA, 90012
Phone: (951) 807 - 0479
sgoad@gabrielino-tongva.com

***Gabrielino Tongva Indians of California Tribal Council***
Robert Dorame, Chairperson
P.O. Box 490 — Gabrielino
Bellflower, CA, 90707
Phone: (562) 761 - 6417
Fax: (562) 761-6417
gtongva@gmail.com

***Gabrielino-Tongva Tribe***
Charles Alvarez,
23454 Vanowen Street — Gabrielino
West Hills, CA, 91307
Phone: (310) 403 - 6048
roadkingcharles@aol.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed 505 - 517 W. 31st Street Project, Los Angeles County.



Map 1 – Key Map I

Map 2 – Aerial view of subject property and surrounding area.

Figure 1 – View of subject property 31st Street frontage, including 2 vacant lots.

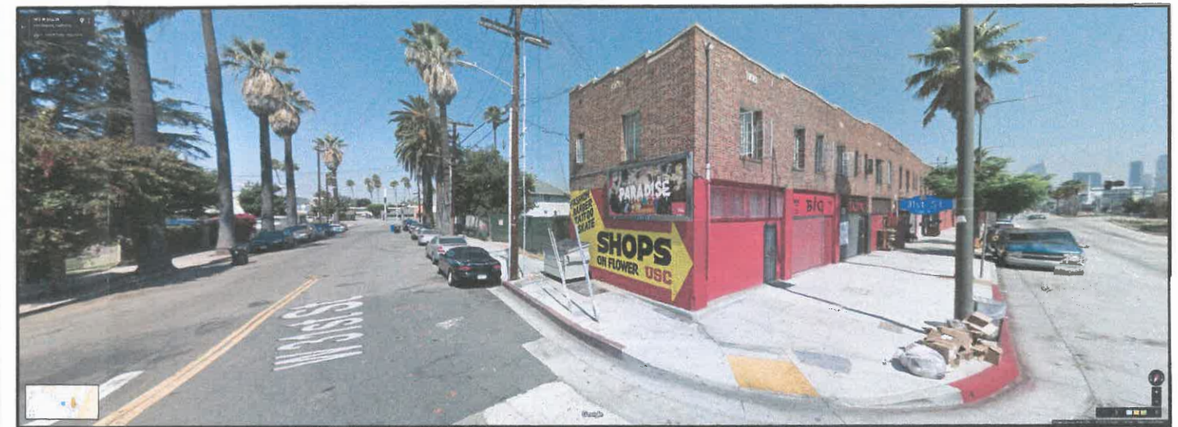


Figure 3 – View looking westerly along 31st street from Flower Street.

Figure 2 – View looking easterly of subject property (and abutting alley).

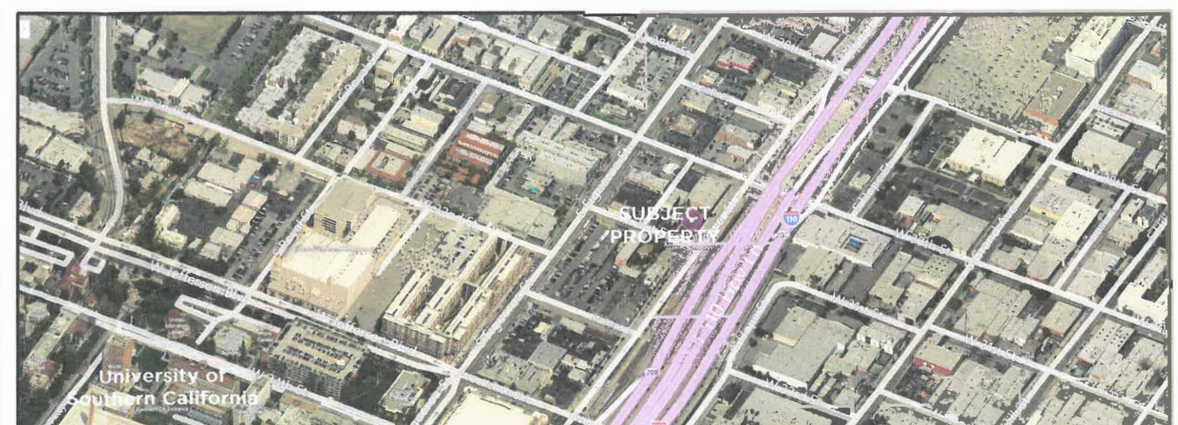


Figure 4 – Large aerial view with University of Southern California's blocks southerly.

DEVELOPMENT PROPOSAL SITE PHOTO EXHIBIT

511 W. 31st Street, Los Angeles, CA 90007
January, 10, 2017

CPC2017-0111

**CPC-2017-111-DB-SPR**
**Exhibit D - Site Photos**

NANDC
North Area Neighborhood Development Council
www.NANDC.org

**Adrienne Kuhre**
President

**Theresa Cunningham**
Vice President

**Samantha Burg**
Secretary

**Julie Burg**
Treasurer

**Carolina Perez**
Aera 1
Representative

**Lizzy Hare**
Area 1
Representative

**Steve Pepdjonovic**
Area 2
Representative

**Dennis Braggs**
Area 2
Representative

**Jean Frost**
Area 3
Representative

**Joanne Russell**
Area 3
Representative

**Julianne Burg**
At Large
Representative

**Thryeris Mason**
At Large
Representative

**Jon Tieuel**
At Large
Representative

**Amy Carnes, Ph.D.**
USC Interest
Representative

**Aaron Flournoy**
Business Interest
Representative

September 12, 2017

To Whom It May Concern,

Re: 505-517 W. 31st Street, Stewart Farmhouse site Project

By E mail

The Empowerment Congress North Area and Development Council (NANDC) supports the project at 505-517 W. 31st Street pursuant to the Board motion September 7, 2017, based on the recommendations of the NANDC Policy Committee, and motion of the full Board at its duly noticed meeting by a vote of 9 ayes, 0 nays, 0 abstentions.

NANDC met with the developer at its Policy Committee and through consultation and discussion several design and aesthetic changes evolved. NANDC supports the development based on its design presentation at its Board meeting on September 7, 2017. The modifications satisfactorily addressed concerns previously expressed and the NANDC Board supports the project moving forward.

Sincerely,

Adrienne Kuhre, President
Empowerment Congress North Area Neighborhood Development Council

Cc: Johnny Andrade, Councilmember Curren Price, Nora Gutierrez, CD9

PO Box 18769
Los Angeles, CA 90018
board@nandc.org | www.NANDC.org

**JADE ENTERPRISES, LLC**

888 S. Figueroa Street, Suite 1900
Los Angeles, California 90017
T: 213-745-5191

October 3, 2017

City of Los Angeles Department of City Planning
Attn: Jenna Monterrosa
200 N. Spring Street, Room 763
Los Angeles, CA 90012

RE: **CPC-2017-111-DB-SPR**
505-517 W. 31st Street

Dear Jenna:

I am writing in support of the proposed project at 505-517 W. 31st Street. This housing development will significantly enhance the neighborhood by providing much-needed market rate and affordable housing. Projects such as this are key to sustainable housing in the city of Los Angeles and help solve the city's housing crisis.

Los Angeles needs to become an efficient and transit oriented city. This project replaces a mostly vacant lot that is a short distance to the Figueroa Corridor and less than 1,000 feet from the Jefferson/USC Metro stop; this is the exact kind of place where we need more housing.

Through our affiliates Trojan Fig Partners LLC and Trojan Flower Partners LLC, our firms owns the properties nearby at 2902-2930 S. Figueroa Street and 2913-2923 S. Flower Street.

This is an outstanding project that will benefit the city, community, and the building's future residents. I highly urge you to approve it.

Sincerely,

Daniel Taban