SUNSHINE CANYON Landfill
14747 San Fernando Road
Sylmar, CA 91342

January 14, 2022

Ms. Lisa Webber
SCL TAC Co-Chair
City of Los Angeles
Department of City Planning
200 N. Spring Street
Los Angeles, CA 90012

Mr. Jon Sanabria
SCL TAC Co-Chair
Los Angeles County
Department of Regional Planning
320 W. Temple St, 13th Floor
Los Angeles, CA 90012

Subject: Report to the Joint Sunshine Canyon Landfill Technical Advisory Committee
SCL TAC Meeting Date - January 31, 2022

Dear Ms. Webber and Mr. Sanabria:

This report provides an update of items requested to be included in the report to the Joint Sunshine Canyon Landfill Technical Advisory Committee (TAC) for the meeting to be held on January 20, 2022. Sunshine Canyon Landfill Team provided a draft copy of the report to the City of Los Angeles Department of City Planning on January 14, 2022 for review.

1.0 Cell Development

1.1 Cell CC-4, Part 4A

CC-4 Part 4A cell construction was completed in 2020 with a cell footprint of 4 acres of floor area and 2.9 acres of side slopes. Approval for disposal operations in Cell CC-4 Part 4A was received from the LARWQCB on November 6, 2020 (Attachment A).

1.2 Future Cell CC-4, Part 4B & 4C

CC-4 Part 4B & 4C cell construction is in progress, and is expected to be complete January, 2022. The cell is anticipated to be 17 acres of overliner.

2.0 Fill Sequence, Soil Usage, Stockpile/Borrow Areas and Disposal on County Top Deck

2.1 Fill Sequence

Disposal operations were conducted in CC-4 Parts 3 and 4A from June of 2021 (the date of the last TAC Report) to the end of December 2021. Disposal operations in CC-4 Part 3 began in mid October 2019 after the cell floor was certified substantially complete by LARWQCB. Disposal operations in CC-4 Part 4A began in November, 2020 after the cell was certified by LARWQCB.

2.2 Soil Usage

Based on soil usage logs, approximately 9.0% of airspace volume consumed year to date (2021) is daily cover.

2.3 Stockpile/Borrow Areas

Placement and subsequent removal of stockpile material is an operational activity that occurs over the life of the landfill. There are four stockpile areas on site that have been designated for such purpose. These stockpile areas are shown on the figure included in Attachment B. However, the most recent soil balance analysis, prepared in December 2021 indicates the site has depleted all previous stockpile quantities and the site is now relying entirely on imported material. A copy of the soil balance analysis is provided in Attachment B. A letter from the Los Angeles County Department of Public Works (LADPW) approved the additional soil importation and stockpiling from outside sources dated on June 15, 2021, and is also included in Attachment B.

3.0 Landfill Gas Collection and Control System

Improvements to the site's landfill gas collection and control system (GCCS) are conducted on an annual basis. This year's improvements to date include the installation of vertical and horizontal gas collection wells and the continuation of improvements as a component of our robust monitoring, maintenance, and operations program. Summaries of these activities have been provided in prior TAC reports.

The following is a summary of the GCCS activities that have been completed thus far in 2021:

- Installation and activation of 56 new and replacement vertical collection points, including three gabion cube gas wells and three oversized, 10-inch diameter, deep vertical wells
- Installation and activation of approximately 10,000 feet of (as of June 2021) horizontal collectors in new waste placement areas
- Installation of dewatering pumps in gas wells impacted by liquids;
    - Installation of 40 dewatering pumps in vertical gas extraction wells
    - Installation of approximately 4,500 feet of air and force main lines for the operation of pumps and transport of liquids removed from the wells

- Installation of descaling chemical dosage pumps on the force main lines to prevent the build-up of solids that can create blockage in the force main lines.
- Installation of upgraded 18" header to increase vacuum to active areaInstallation of approx. 1,800 feet of 18 inch header pipe around the perimeter, and 1,500 feet of 18 inch header through the active area.
- Installation of approximately 1,000 feet of 18-in header along east side of active area to increase vacuum to existing wells
- Extended 36-inch perimeter by approximately 500 feet header for future tie-in to CC4 Part 4A, 4B and 4C

A robust operations and maintenance program continues to ensure all components of the GCCS are working effectively and efficiently. A force main line maintenance program has been implemented. Gauges installed on wells with pumps to monitor the force main back pressure. This information is plotted and reviewed on a weekly basis to identify the location of blockages or restrictions in the force main piping. Once identified the blockages can then be remediated. A blockage prevention program includes the installed electronic de-scalers, dosing of de-scaling chemical strategically into specific force main lines, and jetting of the force main lines as needed to prevent the accumulation of scaling.

Republic Services continues to conduct gas well monitoring and tuning of the wellfield on a semi-monthly basis.

3.1 Surface Emissions Monitoring

The number of initial surface monitoring exceedances continues to decrease as the wellfield improvements described above and in prior TAC reports are impacting the GCCS performance

Second Quarter 2021 SEM Results

- Instantaneous SEM monthly monitoring: During the three initial monitoring events, the City side of the landfill had 39 locations over 233 grids monitored indicating surface emissions over 500 ppm Total Organic Carbon, measured as methane (TOC); the County side of the landfill had 81 locations over 163 grids that indicated surface emissions over 500 ppm TOC. These locations were repaired and re-monitored in accordance with SCAQMD Rule 1150.1. Each of the locations originally identified as being in excess of the 500 ppm threshold passed on either the first or second 10-day re-check as allowed by Rule 1150.1.

- Integrated SEM monitoring: During the initial monthly monitoring events, the City side of the landfill had 20 grids out of a total of 233 grids monitored that showed results over 25 ppm TOC. The County side of the landfill had 30

grids out of a total of 163 grids that showed results over 25 ppm TOC. The exceedances were addressed and re-monitored in accordance with Rule 1150.1. Each of the locations originally identified as being in excess of the 25 ppm threshold passed on either the first or second 10-day re-check as allowed by Rule 1150.1.

Third Quarter 2021 SEM Results

- Instantaneous SEM monthly monitoring: During the three initial monitoring events, the City side of the landfill had 38 locations over 234 grids monitored indicating surface emissions over 500 ppm Total Organic Carbon, measured as methane (TOC); the County side of the landfill had 33 locations over 168 grids that indicated surface emissions over 500 ppm TOC. These locations were repaired and re-monitored in accordance with SCAQMD Rule 1150.1. Each of the locations originally identified as being in excess of the 500 ppm threshold passed on either the first or second 10-day re-check as allowed by Rule 1150.1.

- Integrated SEM monitoring: During the initial monthly monitoring events, the City side of the landfill had 14 grids out of a total of 229 grids monitored that showed results over 25 ppm TOC. The County side of the landfill had 14 grids out of a total of 168 grids that showed results over 25 ppm TOC. The exceedances were addressed and re-monitored in accordance with Rule 1150.1. Each of the locations originally identified as being in excess of the 25 ppm threshold passed on either the first or second 10-day re-check as allowed by Rule 1150.1.

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3.2 Perimeter Probe Monitoring

Rule 1150.1 monitoring requires monthly monitoring of the site's perimeter probes. There were no readings higher than 3.0% during the probe monitoring in the second and third quarters of 2021. A letter dated October 24, 2018 was prepared by SCS Engineers on behalf of SCL for P-205R which has shown methane levels slightly exceeding the AOC value of 2.5% by volume, but has not exceeded the regulatory threshold of 5% by volume. Conclusions to the study indicated the low-level methane detected in P-205R did not originate from landfill but rather are observed to be from petrogenic VOC sources such as an abandon oil well. The recommendations are to request removal of the AOC threshold of 2.5% by volume for P-205R and should P-205R ever exceed the regulatory threshold SCL have a chance to evaluate the origin of methane prior to an issuance of any regulatory violation (Attachment C). The SCL LEA's response to the origin request can also be found in Attachment C.

4.0 Gas-to-Energy Facility (City/County**)**

Sunshine Gas Producers, L.L.C. (SGP) is the owner and operator of the turbine power plant. The power plant began commercial power generation on September 1, 2014 and currently places approximately 18.5 MW per hour or 445 MW per day of renewable energy onto the grid. The plant consists of five (5) Solar Mercury turbines rated at 4.6 MW per hour each.

5.0 Groundwater Monitoring (City/County)

The groundwater monitoring program approved by the LA-RWQCB for Sunshine Canyon Landfill is based on quarterly and semi-annual monitoring of 18 groundwater monitoring wells. Samples are analyzed by an EPA-approved analytical laboratory for more than 100 individual potential contaminants as specified by the approved monitoring program. Statistical analyses are used to identify any trends or changes in concentrations of constituents that could indicate a potential release from the site. In addition to the groundwater wells, samples are collected from sub-drains and lysimeters. Reports of sampling and monitoring activities, including all analytical results, are submitted to the LA-RWQCB on a semiannual and annual basis.

5.1 Summary of Results of First Semi-Annual and Annual Groundwater Monitoring Period of 2021

During the first semiannual 2021 monitoring period, environmental monitoring was conducted on a quarterly basis during March (first quarter) and May (second quarter). The results were generally similar to past monitoring event results, as most analyte/well pairs were previously in tracking mode.

During the first semiannual 2021 monitoring period, a few volatile organics compounds (VOCs) were detected in the first and second quarter samples collected from Subdrain N and Combined Subdrains. These findings are consistent with historical results, and as a result, the liquids collected at the subdrains are conveyed to the nearby sewer system under a City of Los Angeles Bureau of Sanitation permit. Currently, none of the collected liquid is being reused onsite and all of the subdrain liquids are discharged to the sewer. With the exception of 1,4-dichlorobenzene results in combined subdrain samples, all VOC concentrations in subdrain samples were measured below State and federal drinking water standards. As is typical for SCLF subdrain samples, concentrations of sulfate, fluoride, TDS, iron and manganese exceeded state secondary drinking water standards.

Lysimeters LY-6 and LY-7 are sampled on a quarterly basis if there is a presence of liquids. During the monitoring period, they were monitored in March (first quarter) and May (second quarter). LY-6 was dry during both quarerty monitoring events. Results from the sample collected from LY-7 during the reporting period indicated six VOCs were

detected in samples from LY-7. The majority of VOCs in the sample from LY-7 are in the form of t-butanol, and to a lesser degree, 1,4-dioxane. No VOC concentrations exceeded a State or federal primary drinking water standard. As is typical for SCLF lysimeter samples, concentrations of chloride, TDS, iron, and manganese exceeded the State of California secondary (e.g., aesthetic) drinking water standard in at least one of the quarterly samples from LY-7.

6.0 Leachate Collection and Treatment System (City/County)

A revised sewer discharge permit (Permit W-535428) was issued on September 1, 2020 and is currently in effect with an expiration of August 31, 2023 approximately 3 years (as shown as Attachment D)

A Revised Fact Sheet was prepared and submitted to the City to support the industrial wastewater application; this Fact Sheet is also included in Attachment D. The fact sheet provides a description of the liquids generated at the facility as well as the site liquids management plan (provided as Figure 2 in the Fact Sheet) and other supporting documentation. As shown on Figure 2, liquids generated at the facility include, leachate, gas well liquids, condensate, seep water, subdrain and cut-off wall water. The major components of the site's liquid management plan include:

- Direct discharge of all site liquids including leachate, gas well liquids and condensate to the sewer with hydrogen peroxide as needed;
- Optional on-site treatment of seep, subdrain and cut-off wall water after which the effluent can be used on-site for dust control

Figure 3 in the Fact Sheet provides the process flow schematic for the optional on-site water reuse treatment system. This treatment system (formerly call the LTF treatment system in prior TAC reports) has not changed operationally. As shown on Figure 3, the treatment system consists of filters and granular activated carbon (GAC) vessels configured in series. The second and third GAC vessels serve as polishing units, ensuring effective removal of low level VOCs. The effluent routinely meets the WDR limits for VOCs.

7.0 Surface Water Management System, Including Drainage and Erosion Control (City/County)

Management of surface water from the site and the substantial upland non-landfill area that drains to it is a major part of the site's environmental compliance and operational programs.

Functions of the surface water management system include the following:

- Prevent or minimize erosion from the landfill surface;

- Prevent discharge of sediments from the site in excess of regulatory standards;
- Maintain peak stormwater discharges at levels no greater than the pre-landfill condition of the site; and,
- Manage the 100-year, 24 hour storm as required by Title 27 of the California Code of Regulations (CCR).

The surface water management system at Sunshine Canyon has been designed according to requirements of CCR Title 27 and the County of Los Angeles. Its major components were evaluated in the Joint Technical Document for the City/County Landfill, and determined to be in conformance with all requirements.

7.1 Existing Stormwater Management System

The existing surface water management system at Sunshine Canyon consists of three subsystems of drainage controls:

- Permanent Perimeter Drainage System;
- Interim Interior Drainage System; and
- Temporary Erosion and Sediment Control Measures

Elements of each system are described below. Elements of permanent drainage facilities at the site as well as some interim facilities such as concrete drainage channels, are shown on the figure included in Attachment E.

7.1.1 Permanent Perimeter Drainage System

The perimeter drainage systems are the major permanent control systems for the landfill. It intercepts all run-on of surface water from non-landfill areas and diverts it away from the landfill area, and manages runoff from landfill areas where refuse elevations are above the site perimeter drainage elevations. Existing elements of the perimeter system include the following, all of which have been designed to handle the peak discharge from a 100-year, 24-hour storm:

- Sedimentation Basin D, located at the far north end of the County area, which receives run-on from the native canyons north of the landfill area;

- Sedimentation Basin B, located on the east side of the County area, which receives runoff from the native East Canyon area and from portions of the landfill area. Basin B is concrete-lined and has a discharge structure designed to level out peak discharges of stormwater;

- Sedimentation Basin A, located on the west side of the County area, which receives run-on from slope and canyon areas west of the landfill

area, and runoff from portions of the landfill area on the County side. Basin A is lined with concrete;

- East Perimeter Drainage Channel is currently completed from Basin D to the Terminal Basin. The final phase of this channel improvement was completed in September 2012;

- Terminal Sedimentation Basin, located near the site entrance at San Fernando Road. All surface water discharge from the site passes through this concrete-lined basin, which is designed to manage the peak flow from the 100-year storm and discharge no greater flow than the pre-landfill condition of the site. Upgrades in the form of water discharge skimmers and new outfall structures have been installed in early 2018 to extend the retention time and optimize the capacity of this basin.

- The West Perimeter Drainage Channel is currently completed from Basin D to Basin A. It presently discharges to the interim interior drainage system, as described in the following section. When completed, the West Perimeter Drainage Channel will collect all drainage from the west side of the Closed City Landfill and discharge directly to the Terminal Basin. Approval of the Revised West Drainage Channel Master Plan was received from the LARWQB by letter dated October 24, 2016 (Attachment F). Comments on the West Drainage Channel Master Plan were received from DPW on June 15, 2016 (Attachment F). Since the construction of the West Perimeter Drainage Channel cannot be implemented until the CC4 Stability Buttress is in place, no action has been taken to date to address the comments from DPW.

- The Front Entrance Project when completed will provide a new access roadway for traffic and improved surface water drainage to the Terminal Basin and a significant portion of the West Drainage Channel. At this time, the project is undergoing construction and temporary BMPs will be utilized as needed until final construction activities have been completed in 2022.

7.1.2 Interim Interior Drainage System

Until all areas of the City/County Landfill have been developed and filled to elevations above the site perimeter, run-off from areas of the site interior must be managed in a system of basins and channels discharging through the center of the site to the Terminal Basin. At present, this includes the entire west side of the Closed City Landfill, currently areas of Cells CC-1, CC-2, CC-3,CC-4 Parts 1, 2, 3, and 4 parts A and B and most of Cell A. The interim interior system is modified to accommodate ongoing construction activity. Construction includes

drainage elements to ensure stormwater is directed to existing stormwater conveyance systems which ultimately discharge to the Terminal Basin.

The interim interior drainage system consists of an asphalt and concrete-lined trapezoidal channel which runs along the western side of the main haul road. This channel discharges to a box culvert which directs discharge from the trapezoidal channel along the temporary Phase 1 By-Pass Road that discharges to the Terminal Basin.

The drainage system for the Closed City Landfill features one large shallow sedimentation basin and a series of semi-permanent and temporary channels that collect runoff and convey it to the primary interior drainage channel described above. In the future, this system will discharge to the West Perimeter Drainage Channel.

7.1.3 Temporary Erosion and Sediment Control Measures

Temporary erosion control systems are installed on an annual basis in advance of the rainy season. A drainage plan is prepared annually which includes a variety of measures that not only reduce soil erosion but also reduce peak flows by slowing down and leveling discharges from the site. These measures include the following:

- Removal of deposited silt in site basins and drainage channels;
- Removal of deposited silt in Terminal Basin;
- Removal of rock filter around risers in Terminal Basin and replacement with new rock filter;
- Removal of old filter material around risers in Terminal Basin and replacement with new filter material;
- Grading benches to promote positive drainage;
- Removal of vegetation from pipes and inlets;
- Installation of temporary geosynthetic downdrain channels and chutes where required on the active fill area slopes;
- Installation of a geosynthetic-lined stormwater retention basin;
- Installation of a grated road crossing on paved entry road to separate runoff flows from vehicle traffic;
- Removal of sediment that accumulated around the gabion check dam in the Terminal Basin;
- Installation of Filtrexx compost rolls along the toe of the slopes of City South and toe of the slope of Cell CC-3B adjacent to the haul road and throughout other critical areas of site;
- Installation of approximately 12 acres of erosion matting;
- Installation of approximately 26 acres of Closure Turf; and
- Regrading and reseeding of vegetative cover areas.

Temporary erosion and sediment control measures are documented and reported to the LEA, the Los Angeles Regional Water Quality Control Board and the County of Los Angeles, Department of Public Works. The most recent Wet Weather Preparedness Plan (2021) submitted to these agencies is included in Attachment G. After each rain event, erosion and sediment control measures are inspected and evaluated, and repairs made as needed prior to the next rain event.

8.0 Current Odor Control Mitigation Measures (City/County)

This section provides an overview of the odor control mitigation measures that have been on-going as well as providing the current status of odor control systems in place.

8.1 On-Going Odor Control Measures

The site implements several aggressive odor control measures as part of the routine daily operations, including but not limited to odor neutralizing agents on misting lines and stationary equipment strategically placed throughout the site, modification of fill operations to limit odors during unfavorable wind conditions, and an aggressive landfill gas monitoring, operations and maintenance program. These measures are constantly evaluated for their effectiveness and modified as necessary in real time. Additionally, new technologies are piloted on-site to further enhance our efforts and plan for future odor control strategies. The site has also recently expanded the on-site team by opening four new full time positions dedicated to odor control-related activities.

The combined benefit of all of the odor mitigation measures previously completed at SCL, as well as the on-going processes and procedures to address and mitigate odors and potential odor sources has resulted in the following quantifiable benefits: The site has shown a significant decrease in overall odor complaints and NOVs over the past several years. In fact, 2021 had the second fewest number of odor complaints in the past nine years. These ebnefits are a reassurance that SCL has implemented a robust odor control program. Refer to Attachment H for the AQMD monthly summary of odor complaints and NOVs.

9.0 Revegetation Plans and Recent Hydroseeding Efforts on Temporary Slopes and Stockpiles (City/County)

A quarterly vegetation report is submitted which provides discussions on the vegetation efforts and any hydroseeding activities conducted during the quarter. The vegetation reports for the second quarter of 2021 and third quarter of 2021 were submitted on July 31, 2021 and October 31, 2021, respectively.

10.0 Venturan Coastal Sage Mitigation Plan (City's M.4.4.1 (60) &(61))

As reported in previous TAC reports, a landscape architecture and planning contractor, Architerra Design Group (Architerra), was hired to design and develop a habitat restoration and landscape improvement plan for the City South C Trial Plot. This project is intended to be a pilot or demonstration project to determine the most effective course of action for re-vegetation of the closed deck and slopes area on the City South area of the site. Work on this project began in the first quarter of 2013 with construction/planting activities completed in May of 2013. Weekly activities have been conducted in the pilot project area since that time consisting of maintenance, selective pruning and repairs to the irrigation system when needed.

An assessment of the site's sage mitigation areas, including the pilot project area, is conducted by a qualified biologist on a quarterly basis and is included in the quarterly vegetation reports. The quarterly monitoring consists of an overall assessment of the site's sage mitigation areas (City and County mitigation areas) as well as a sampling and assessment of the pilot project area in accordance with the procedure presented in the First Quarter Vegetation Report entitled *"Methodology for Monitoring Percent Cover and Species Richness within Each Seeded Application Method on the Coastal Sage Scrub Pilot Project at the Sunshine Canyon Landfill"*.

The most recent observations of the Deck C sage mitigation area noted that overall the area looks healthy, and is recovering well from the impacts of the 2019 Saddleridge Fire. The area will continue to be monitored on a quarterly basis and those observations will be included in the quarterly vegetation reports.

10.1 Phase 2 Coastal Sage Scrub Pilot Mitigation Project

On August 15, 2016, a proposal for a second phase of the Venturan Coastal Sage Scrub (CSS) mitigation was submitted to the TAC. This proposal presented two options to be considered for the Phase 2 CSS mitigation; the option to implement the second phase on Deck B was selected. This includes approximately 9.5 acres with the majority of the area being relatively flat although there are some shallow slopes along the edges. The area contains established CSS which would be protected during the construction of the area.

The construction of the Phase 2 CSS mitigation area on Deck B was initiated in October 2017. Grading of the area was completed in early November 2017 and the project has been completed in December 2018. Ongoing maintenance for the first year's

establishment was underway for 2019 and monitoring and reporting for Deck B has been implemented during the CSS quarterly vegetation program.

11.0 Chatsworth Mitigation (City Q.C.9)

The following presents a summary of the work conducted in 2017 related to the Chatsworth Mitigation project.

11.1 Ordinance Amending Section 12.04 of the Los Angeles Municipal Code

The ordinance amending Section 12.04 of the Los Angeles Municipal Code has not been finalized as of the date of this report. Comments on the draft Ordinance were received from the Army Corps of Engineers (ACOE) on April 17, 2015 and forwarded to the City the same day. A conference call was held on July 7, 2016 to discuss the status of the draft Ordinance. Based on that call, Republic Services proceeded with work to develop an Addendum to the Mitigated Negative Declaration (MND) as a supporting document to the Ordinance (Section 11.2).

A conference call was held with representatives from the California Department of Fish and Wildlife (CDFW) in June 2017 to discuss their comments on the draft Ordinance. Fish and Wildlife personnel stated they could not agree with the Ordinance since the site permit required a Conservation Agreement. In addition, Republic Services was informed that the original Streambed Alteration Agreement (SAA) R5-2002-0163 had expired and could not be amended to include a reference to the City Ordinance. In response to this, Republic Services submitted a Notification of Lake or Streambed Alteration Notification to the CDFW on October 26, 2017. By letter dated November 27, 2017, the CDFW notified Republic Services the submitted Notification was deemed complete (Attachment L). CDFW also stated that if it is determined an Agreement is required for the project, a draft Agreement will be issued no later than January 26, 2018.

By letter dated January 26, 2018, CDFW notified Republic Services that because the CDFW did not submit a draft Lake or Streambed Alteration Agreement by January 26, 2018, Republic Services does not need an agreement to proceed with the proposed work given that all federal, state and local laws are observed. Currently, Republic Services is awaiting the approval of the City Ordinance (Attachment J).

12.0 Status of Alternative Fuels Vehicles (City/County)

The filling station located at 12881 Encinitas Avenue, Sylmar intermittently has E-85 fuel available. When available, pickup trucks used onsite fuel with E-85. When E-85 is not available, unleaded fuel is used. There is no other E-85 filling station viable for this purpose.

13.0 Backup Generator (City/County)

As reported in previous TAC reports, SCL is in compliance with CUP Condition 83. Generators needed to provide power to the landfill gas flaring system have been identified and secured by a contractual arrangement with Quinn Power Systems.

The transfer switches for Flares 1, 3, 9, 10 and 11 have been installed. One generator has been purchased and is staged on-site. The permit to operate this generator was received from SCAQMD in April 2017 (Permit No. G46227).

14.0 Soil Importation

On July 28, 2015, Republic Services submitted a request to LA County DPW for approval to import clean soil that will be made available from the Los Angeles County's Devil's Gate Reservoir Sediment Removal and Management Project located in Pasadena, California. By letter dated May 4, 2016, DPW approved the importation of this material to Sunshine Canyon Landfill (Attachment K).

By email dated September 12, 2016, Mr. Ken Zimmer (Senior Civil Engineer, Water Conservation Planning, LA County Department of Public Works) informed Republic Services personnel there would be a delay in the Devil's Gate Reservoir Sediment Removal Project and stated the LA County Flood Control District would plan on sending a portion or all of the material from the Pacoima Spreading Grounds to Sunshine Canyon Landfill.

Sunshine Canyon Landfill met with representatives from Sunshine Canyon Landfill Local Enforcement Agency and the LA County Flood Control District on June 14, 2018. ThePacoima Spreading Grounds project subsequently has commenced in the Fall of 2021.

A letter from the Los Angeles County Department of Public Works (LADPW) approved the additional soil importation and stockpiling (up to 2,500 tpd) from outside sources dated June 15, 2021 and is also provided an update in this report in section 2.3 and Attachment B.

15.0 Current and Planned Projects Outside the Disposal Area

The site plans to relocate the existing maintenance shop to outside the disposal area, but within the site's existing approved grading boundary. An application is currently under review for a grading plan check with the LA County DPW. Once approved, the shop will be relocated, which is anticipated to occur in Q2 of 2022. The grading application was submitted to LA County DPW in July 2021.

15.2 Front Entrance Toe Berm

The ultimate access way into Sunshine Canyon Landfill from San Fernando Road and the Cascade Oilfield Road shall be designed to accommodate a geotechnical stability toe berm to complete the future cell construction of CC-5. The new roads will house the main road access on to the site for access to the Administration offices & breakroom, SCL-LEA building, Scalehouse, Maintenance Shop, and access to the Cascade Oilfield office. The geotechnical and structural engineering consulatant, Geo-Logic Associates designed the ultimate entryway. As part of the design the east and west stormwater drainage channels and dampener structures were also modified as part of the project redesign. Ongoing construction activities for this project commenced in early March 2021, and are anticipated to continue through 2022. The approval letter from the Los Angeles Department of Building and Safety Grading Division is provided (Attachment M).

16.0 Current Monitoring Activities

The following monitoring activities have been conducted during the reporting period:

- Construction Monitoring - Grading for Cell Construction Subgrade Excavation:

  Scope: Archaeological and paleontological monitoring
  Consultant: John Minch and Associates (JMA)

- Third Party Mitigation Monitoring

  Scope: Third-party Mitigation Monitoring
  Consultant: UltraSystems

- Surface Emission Monitoring

  Scope: Monitoring required by SCAQMD Rule 1150.1 (Surface Emission Monitoring, etc.)
  Consultant: RES Environmental

- Biological Monitoring

  Scope: Coastal Sage, Oak Tree and Big Cone Fir Mitigation Monitoring
  Consultant: Rincon Consultants (Formerly JMA)

- Ambient Air Monitoring

  Scope: Third-party Ambient Air Monitoring
  Consultant: Sonoma Technology, Inc. (STI)

- Gas Well & Perimeter Probe Monitoring

  Scope: NSPS Monitoring
  Consultant: SCS Engineers

Please note that off-site odor monitoring conducted in nearby neighborhoods is conducted by Republic Services' employees.

17.0 Response to Third Party Mitigation Monitor Observations

UltraSystems provides the third party mitigation monitoring as required by Q Condition C.12.c. UltraSystems personnel perform monitoring visits in order to observe operational site activities and determine compliance status with conditions and/or mitigation measures. After each site visit, UltraSystems and Republic personnel meet to discuss the findings and observations.

This section provides an update on the status of the block retaining wall on San Fernando Road. The following activities have been conducted related to this item:

- A geotechnical investigation of the slope above the retaining wall has been conducted;
- A structural investigation of the current condition of the block retaining has been conducted;

These two investigations were finalized the last week of May 2017. Based on the results of these investigations, a scope of work including the following items was developed:

- Removal of the loose material on the slope behind the block retaining wall;
- Grading of the slope as needed under the direction of a geologist;
- Removal of loose material behind the block wall to expose the v-ditch and promote drainage;
- General clean-up of the sidewalk area to re-establish the walkway.

These tasks have been adopted as a part of the routine winterization process for the site and is also conducted on an as-needed basis. A picture of the project area is provided in Attachment N.

19.0 Recent Landfill Activities and Planned Activities for Next Six Months

Recent activities conducted at the landfill are discussed in previous sections and include the following:

- Continued maintenance of City South Coastal Sage Mitigation Area;
- Future design and construction of 5.4 acres of VCSS on Deck B City South;

Planned activities for the fourth quarter of 2021, and first quarter of 2022 include:

- Upgrades to GCCS system including expanded headers, and installation of vertical and horizontal gas wells;
- Cell Construction CC-4 Part 4B;
- Grading activites of the Front Entrance Toe Berm;
- Grading the pad for the new maintenance shop, pending LA County DPW approval of the permit application.
- Additional upgrades to the liquids management system;
- Phase 2 Coastal Sage Scrub Pilot Mitigation Project;
- Continued maintenance of City South Coastal Sage Mitigation Project area;

Please do not hesitate to contact me at (818) 362-2141 if you have any questions.

Sincerely,

Chris Coyle
General Manager Manager
Sunshine Canyon Landfill

Cc: Devon Zatorski, City Planning
Tiffany Butler, City Planning
Lisa La Rocca, City Planning
Nick Hendricks, City Planning
Maria Masis, LA County Regional Planning
Martins Aiyetiwa, County of Los Angeles, Department of Public Works
David Thompson, SCL-LEA
Dorcas Hanson-Lugo, SCL-LEA

ATTACHMENT A

November 6, 2020

Ms. Valorie Moore, Environmental Manager
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342
VMoore3@republicservices.com

APPROVAL OF CONSTRUCTION QUALITY ASSURANCE REPORT, CELL CC-4, PART 4A, LINER INSTALLATION - SUNSHINE CANYON LANDFILL, SYLMAR, CALIFORNIA (FILE NO. 58-076, ORDER NO. R4-2008-0088, GEOTRACKER GLOBAL NO. L10006014618)

Dear Ms. Moore:

The Los Angeles Regional Water Quality Control Board (Regional Water Board) has received the *Final Report of Construction Quality Assurance, CC-4 Part 4A, Sunshine Canyon Landfill* (Report), dated October 2020, prepared by Geo-Logic Associates for Republic Service (Discharger) who owns and operates the Sunshine Canyon Landfill (Landfill) in Sylmar, California. The Report has been submitted to comply with waste discharge requirements (WDRs) in Order No. R4-2008-0088, which was adopted on October 2, 2008, by the Regional Water Board for the Landfill, and applicable requirements in title 27 of the California Code of Regulations (27 CCR).

The Report documents the construction quality assurance (CQA) services performed during the construction of CC-4, Part 4A, liner system in an approximately 4-acre (1.1 acres of floor area and 2.9 acres of side slopes) area at the Landfill. CQA activities included monitoring earthworks construction, geosynthetics installation, and leachate and gas collection piping installation. The Report includes descriptions of construction and CQA activities, field logs prepared by the CQA personnel, results of field and laboratory conformance tests conducted on earthworks and geosynthetic materials, and as-built drawings.

Regional Water Board staff has completed review of the Report. Based on the information provided and our observations during site inspections at the Landfill on August 14, 2020, and September 30, 2020, we have determined that the CC-4, Part 4A, liner system at the Landfill meets the requirements in Section D of the WDRs (Requirements for Containment Structures) and Section 20310 et seq. of 27 CCR

(Waste Management Construction Standards). Discharge of municipal solid wastes, as defined in Section A of the WDRs (Acceptable Materials), in this area of the Landfill is hereby approved.

If you have any questions regarding this matter, please contact Dr. Wen Yang, Chief of the Land Disposal Unit of the Regional Water Board, at (213) 620-2253 or wen.yang@waterboards.ca.gov.

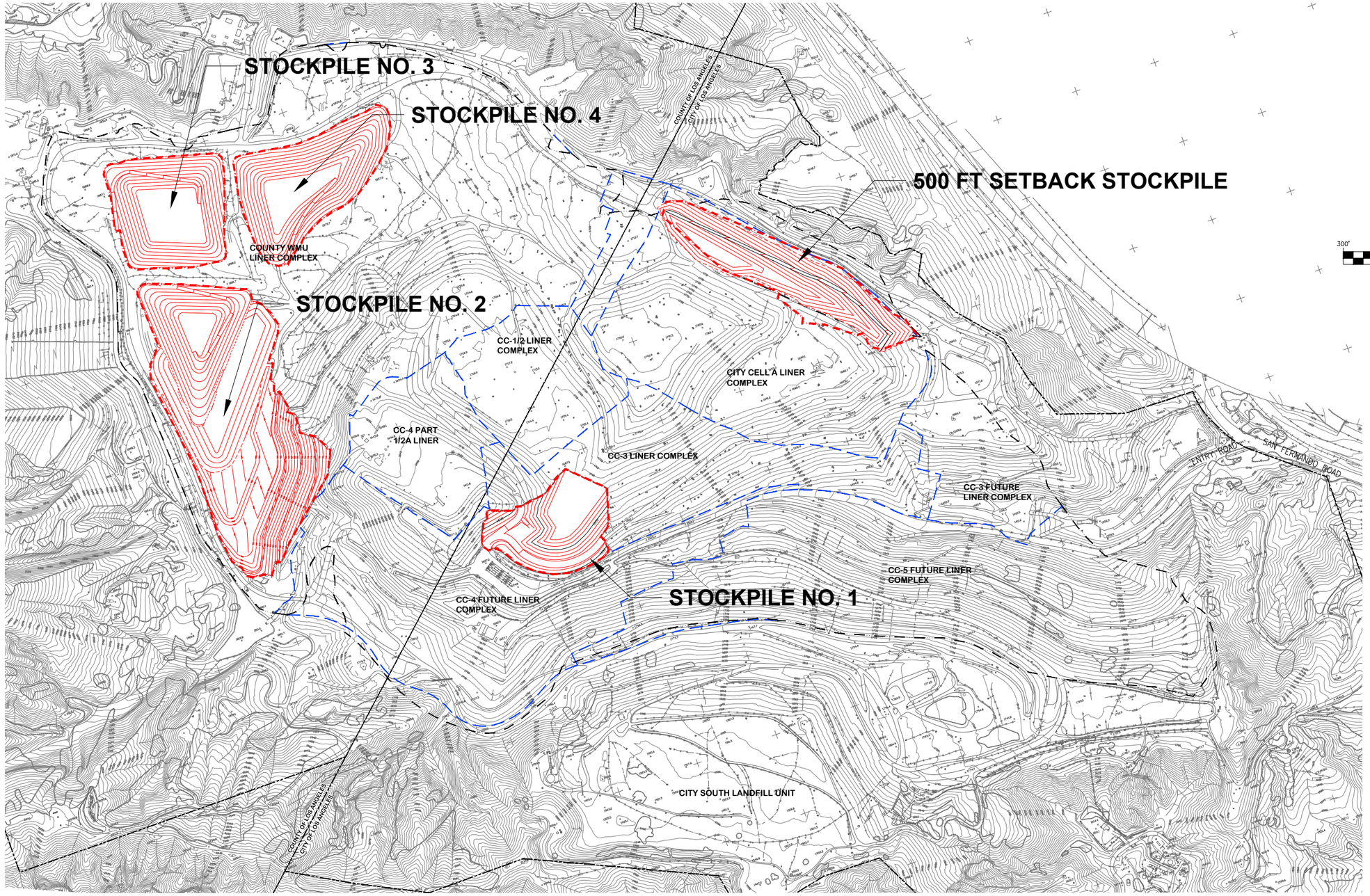
Sincerely,

Renee Purdy
Executive Officer

CC:

Dorcus Hanson-Lugo, Sunshine Canyon Landfill LEA (dlugo@ph.lacounty.gov)
David Thompson, Sunshine Canyon Landfill LEA (david.thompson@lacity.org)

ATTACHMENT B



NOTE:
BACKGROUND TOPOGRAPHIC MAPPING BY COOPER AERIAL SURVEYS DATED FEBRUARY 5, 2018.

LEGEND

- WASTE MANAGEMENT UNIT BOUNDARY
- PERMITTED LIMITS OF REFUSE PER 2006 JTD
- LIMITS OF STOCKPILE

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FOR_REVIEW_ONLY

ORIGINAL DRAWING SIZE IS 22" X 34"

REV. NO.	DATE	DESCRIPTION	APPROVED BY
REV1	00	00	00
REV2	DATE2	DESCRIPTION2	DRAWN2
REV3	DATE3	DESCRIPTION3	DRAWN3
REV4	DATE4	DESCRIPTION4	DRAWN4
REV5	DATE5	DESCRIPTION5	DRAWN5
REV6	DATE6	DESCRIPTION6	DRAWN6

DATE OF ISSUE: JUN_2018
DESIGNED BY: R_JOHNSON
DRAWN BY: C_BARRETT
CHECKED BY: R_JOHNSON
APPROVED BY: R_JOHNSON

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REPUBLIC SERVICES

SUNSHINE CANYON LANDFILL
SYLMAR, CALIFORNIA
OPERATIONS PLANS

STOCKPILE LOCATIONS IN 2018

DWG NO. 1

PROJECT NO. S018.1000.00

C:\Users\cbarrett\Documents\Allied-Republic\Sunshine Canyon LF\Exhibits\TAC Exhibits\SCL - Stockpile Locations for 2018 062618.dwg Jun 26, 2018 - 11:6am By: cbarrett

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

MARK PESTRELLA, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

June 15, 2021

IN REPLY PLEASE
REFER TO FILE: EP-5

Mr. Chris Coyle
General Manager
Republic Services, Inc.
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342-1021

SUNSHINE CANYON CITY/COUNTY LANDFILL
CONDITIONAL USE PERMIT NO. 00-194-(5)
AUTHORIZATION TO IMPORT CLEAN SOIL

Dear Mr. Coyle:

Public Works has reviewed Republic Services' revised soil importation request, dated May 21, 2021, (Enclosure 1) and supporting information. Republic submitted the revised request in response to Public Works letter of November 11, 2020, and as further discussed with Public Works on February 23, 2021. The revised request seeks Public Works approval to import clean soil at a maximum rate of 2,500 tons per day to the Sunshine Canyon Landfill, six days per week (Monday – Saturday) for the next five years.

Your request for importation of clean soil for beneficial use at the Landfill is hereby approved pursuant to Conditional Use Permit (CUP) 00-194-(5), Conditions 1.D and 23.E, which requires Republic Services to obtain prior authorization from Public Works prior to importation and acceptance of clean soil material for beneficial use.

This authorization is being granted in order to allow the Landfill to import soil to the site for beneficial uses. Based on your submittal, the volume of on-site soil stockpile will be exhausted in 2021 and importation of soil is necessary for effective landfilling operations at the site. This approval is subject to the following conditions:

1. The quantity of soil to be imported shall not exceed the following:

    - 2,500 tons per day or 15,000 tons per week
    - 3.9 million tons total for the 5-year duration of the project.

- The quantity of soil imported (tonnage) shall be included as part of the total permitted daily and weekly tonnage capacity of materials (Solid Waste, Inert Debris, and Beneficial Use Materials). Pursuant to the CUP, in no event shall the daily tonnage of all materials received by the Landfill exceed 12,100 tons on any given day, six working days per week, nor the total permitted weekly tonnage limit of 72,600 tons per week.

2. The soil importation shall occur during the normal operating hours of the site from Monday to Saturday.

3. All incoming and departing truck routes associated with this soil importation project shall be limited to the same route from the Interstate 5 Freeway to the Landfill as do loads of refuse, by taking the Roxford Exit and San Fernando Road to the Landfill entrance.

4. The imported soil shall be placed adjacent to the working area for immediate usage in a designated location, or if soil is not needed at the working area, it shall be taken to a designated stockpile location as defined in the Landfill's Joint Technical Document. Additionally, all stockpile areas shall be vegetated if left unused longer than 180 days and will require soil stockpile grading and drainage plans to be provided within 30 days from the date of this letter for further review and approval (pursuant to CUP Condition 37).

5. The operator shall comply with the currently approved Fugitive Dust Control Program to minimize dust resulting from the importation project.

6. The operator shall follow all applicable local, State, and Federal standards and requirements for the importation of clean soil from off-site sources, including but not limited to, the approved Waste Load Checking Program and the Waste Discharge Requirements issued by the California Regional Water Quality Control Board to ensure the imported soil's quality is acceptable under this program and permit.

7. Republic shall keep records of all soil materials received, including but not limited to, source of imported soil, quantities accepted/imported and use of onsite soil and purpose, delivery schedules, usage schedules, stockpiled, beneficially used, and disposed of.

8. The operator shall submit monthly summaries of these records on a semi-annual basis, including a stockpile location map, to Public Works Environmental Programs

Division for the duration of this project. The first semi-annual report shall be submitted six months from the date of this letter.

9. The Director of Public Works, at his/her sole discretion, may rescind or terminate this approval if Public Works determines that any of the conditions of approval has been violated and/or that such termination is necessary to protect public health, safety, welfare, and/or the environment.

If you have any questions, please contact me or your staff may contact Mr. Gabriel Esparza at (626) 458-4946 or gesparza@dpw.lacounty.gov, Monday through Thursday, 7:00 a.m. to 5:30 p.m.

Very truly yours,

MARK PESTRELLA, PE
Director of Public Works



MARTINS AIYETIWA
Senior Civil Engineer
Environmental Programs Division

MA:rw
P:\SEC\RW\EP5\SCL IMPORT SOIL APPROVAL LETTER.DOCX

Enc.

cc: Department of Regional Planning (Edgar De La Torre, Alex Garcia, Maria Masis)
City of Los Angeles Department of City Planning (Tiffany Butler, Nicholas Hendricks, Lisa Webber)
Sunshine Canyon Landfill Community Advisory Committee (Wayde Hunter)
Sunshine Canyon Landfill Technical Advisory Committee (Lisa Webber, Jon Sanabria)
Sunshine Canyon Landfill Local Enforcement Agency (Dorcas Hanson-Lugo, Shikari Nakagawa-Ota, David Thompson)
Each Member of the Los Angeles County Solid Waste Management Committee Integrated Waste Management Task Force

SUNSHINE CANYON
Landfill

14747 San Fernando Road
Sylmar, CA 91342

May 21, 2021

Mr. Martin Aiyetiwa
Senior Civil Engineer - Environmental Programs Division
900 South Fremont Avenue
Alhambra, CA 91803-1331

Subject: Clean Soil Material Importation and Stockpile – Sunshine Canyon City/County Landfill
Conditional Use Permit No. 00-194-(5)

Dear Mr. Aiyetiwa:

In response to the last soil importation meeting with the County of Los Angeles Department of Public Works (DPW) on February 23, 2021, Sunshine Canyon Landfill (SCL) would like to provide the following responses and request the department's approval to import 2,500 tons per day of clean soil; 6 days per week (Monday – Saturday) for the next 5 years (2026).

Please see Republic's response to your Specific Comments:

1. The submittal references, "the soil analysis data from different projects." Are these different projects referred to "Enclosure 3 Melrose Triangle - Analytical Report" and "Enclosure 3 Purple Line?" are they the only source of imported soil? Or will there be other sources? What is the intention for Enclosure 2? Please clarify.

   Response: Enclosure 3, Melrose Triangle and Purple Line Analytical Report, are two different projects obtained by the site but soils have not been received due to the delay in DPW's approval. We are constantly searching for soil sources as they become available so these two projects will not be the only source of soil for the site and may no longer be available to the site. The intent of Enclosure 2 was labelled to show the proposed year 2020 on-site haul route for the importation of clean dirt and the stockpile area. It also shows the fill area for the build-out of CC4-P3. The haul routes will change from year to year based on the areas that need soil. It is not feasible to show haul routes for future years as there are too many variables (waste diversion programs; SB 1383; jurisdictional disposal generation rates; the obtaining or loss of disposal agreements with various customers) dictating how fast the landfill will build out. However, we can provide information on projected annual onsite haul routes in SCL's semi-annual reports to DPW.

2. The September 21, 2020, submittal is still incomplete and inadequate in providing information necessary to evaluate the landfill's request to import Clean Dirt, as discussed in Public Works' letters dated June 24, 2020, and August 20, 2020. Listed below are some of the deficiencies:

    a. There is no comprehensive information on the soil balance analysis to support the need for soil importation.
        i. The soil balance analysis shall include, but not be limited to, the amount of soil needed for daily cover operations and other activities as detailed in the proposal. Additionally, the analysis should include technical justifications for the usage and need, taking into consideration the implementation of the Alternative Daily Cover Program since October 2015. The soil balance analysis shall also be similar and/or consistent with your previous soil evaluation report dated October 9, 2015 (Enclosure 3).

    b. There is no delivery schedule and frequency or information on potential offsite hauling route for the imported soil,
    c. There is no in-depth description of proposed dust control measures,
    d. There is no information on source and quality of soil, soil importation vs depletion or usage schedule, etc. There is no comprehensive tracking and reporting program of the imported soil vs. usage with information on potential shortage or surplus in soil importation where semi-annual reports would be submitted to Public Works for information and review.
    e. There is no Soil Stockpile plans to show how it complies with requirements including grading and drainage.
    f. There is no vegetation plan for stockpiling area (if it will be there for more than 180 days)

Response:

a. Please see Enclosure 1 "Sunshine Canyon Landfill Soil Balance Analysis" prepared for SCL by Geo-Logic Associates (GLA).
b. The sources of imported soils come from off-site construction projects that are under the control of third parties. Therefore, the future sources, quantities and delivery schedules for imported soils are not possible to predict. We can provide information when it becomes available and also in the semi-annual reports in the imported soils activities section for the prior 6-months. Incoming soil loads will follow the same route from the freeway to SCL as do loads of refuse, by taking the Roxford Exit and San Fernando Road to the landfill entrance.
c. The dust impacts of onsite-soil needs have already been analyzed in the site's FEIR. These impacts should be the same whether the soil is mined

onsite or imported from off-site. The site has provided a dust control plan to DPW which is consistent with the site's past dust control practices which have not been shown to create any off-site impacts. In addition, the FEIR analyzed truck traffic volumes and, as previously stated, the site will be well within the truck volumes analyzed in the FEIR with all trucks importing waste included in the total truck count. Similarly, the FEIR has already analyzed the noise from site operations involving clean soil import because the noise associated with importation would be from truck traffic which have not been shown to have any off-site impacts. We are re-attaching SCL's dust control plan (Enclosure 2) and South Coast Air Quality Management District's (SCAQMD) Rule 403 (Enclosure 3). The site complies with SCAQMD's Rule 403 by paving and placing rock base along the main haul roads in addition to implementing other control measures. In addition, the site Supervisors are Rule 403 certified.

d. Information on source and quality of soil, soil importation vs depletion or usage schedule, etc. can be provided in the semi-annual report which can include the following: Source of job/location, Analytical information on imported soil, quantity of soil imported and use of onsite soil (broken down by daily cover, berms, etc). We provided you with SCL's screening protocols for the importation of off-site soil as Enclosure 1 to our letter to you dated September 21, 2020. Please note that our screening protocols require advance analyticals from each off-site source. The soil balance analysis from GLA, attached as enclosure 2, also responds to your request for soil balance importation and depletion.
e. Please see Enclosure 4 (County Deck Stockpile)
f. Please see Enclosure 4 (County Deck Stockpile)

3. It appears that the 1998 and 2004 Traffic Study and Final EIR does not support a daily tonnage of 17,100 tons per day at the site. Therefore, provide analysis and justification that will show the additional 5,000 tons per day of imported soil traffic impacts on the existing 12,100 tons per day coming into the landfill based on existing traffic analysis.

Response: We do not understand this comment. Truck traffic to the landfill is well below the traffic volumes analyzed in both the most recent City and County environmental documents used to permit the Joint City/County landfill. These documents considered that the landfill may receive as many as 1,380 trucks per day for the County side of the landfill and 1,150 trucks per day for the City side. (See, 2004 FEIR Addendum, pp. 3-58 and 3-64.) The landfill currently only averages 560 trucks per day. Please also see Enclosure 1, section 5.

SUNSHINE CANYON
Landfill

14747 San Fernando Road
Sylmar, CA 91342

If you have any questions or require any additional information, please contact Chris Coyle at 818-362-2141 or Valorie Moore at 818-362-2145.

Sincerely,
Sunshine Canyon Landfill

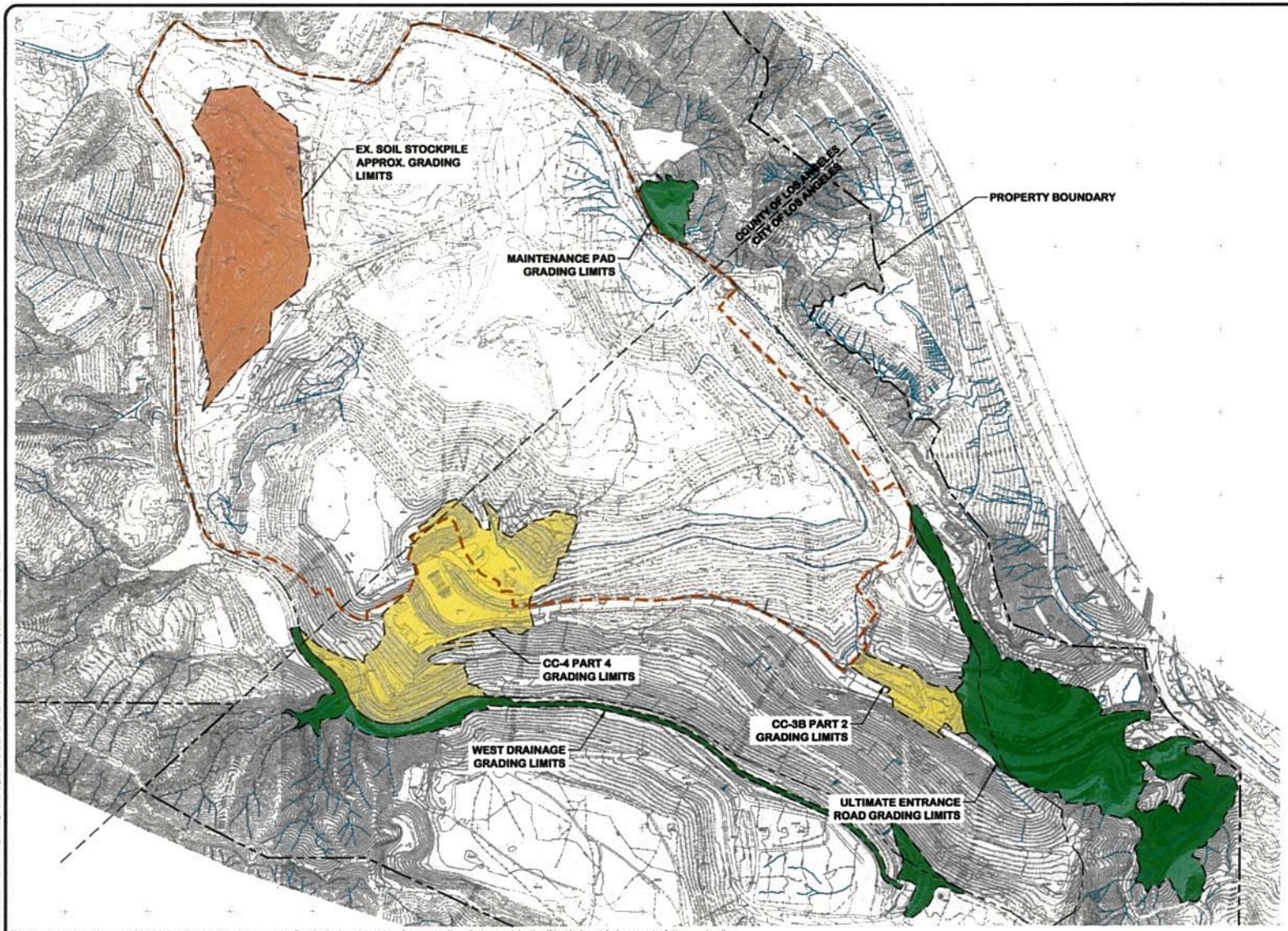
Chris Coyle
General Manager

5/21/2021
Date Signed

Enclosures:

1. SCL Soil Balance Analysis
2. SCL Fugitive Dust Control Form (SCAQMD Rule 403 Table 2 and 3 Control Measures)
3. SCAQMD Rule 403
4. SCL County Deck Drainage Plan

Enclosure 1



LEGEND

- EXISTING TOPOGRAPHY, 10 FT ELEVATION CONTOUR
- EXISTING TOPOGRAPHY, 2 FT ELEVATION CONTOUR
- LIMITS OF STOCKPILE
- LIMITS OF PROPOSED GRADING PROJECTS
- LIMITS OF LINER EXPANSION GRADING PROJECTS
- APPROXIMATE LIMITS OF USED LANDFILL FOOTPRINT
- PERMITTED LANDFILL FOOTPRINT

NOTES:

1. EXISTING TOPOGRAPHY BASED ON AERIAL SURVEY BY COOPER AERIAL SURVEY CO. ON FEBRUARY 13, 2020.
2. BASE OF COUNTY DECK SOIL STOCKPILE DETERMINED THROUGH POTHOLING.
3. EXISTING AND PROPOSED GRADING FEATURES BASED ON EXISTING CONDITIONS AT THE TIME OF THE AERIAL SURVEY.

N

300' 0' 150' 300' 600'

SCALE: 1" = 300'

ISSUED FOR REVIEW

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REV NO.	DATE	DESCRIPTION	APPROVED BY

DATE OF ISSUE: DEC 18, 2020
DESIGNED BY: C BARRETT
DRAWN BY: J AMAYA
CHECKED BY: C BARRETT
APPROVED BY: C BARRETT

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Geo-Logic ASSOCIATES
2777 EAST GUASTI ROAD
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(909) 626-2282
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REPUBLIC SERVICES

SUNSHINE CANYON LANDFILL
14747 SAN FERNANDO ROAD
SYLMAR, CA. 91342

SUNSHINE CANYON LANDFILL
SOIL BALANCE ANALYSIS
SYLMAR, CALIFORNIA

LIMITS OF SOIL PROJECTS & STOCKPILE

DWG NO. 01

PROJECT NO. S020.1076

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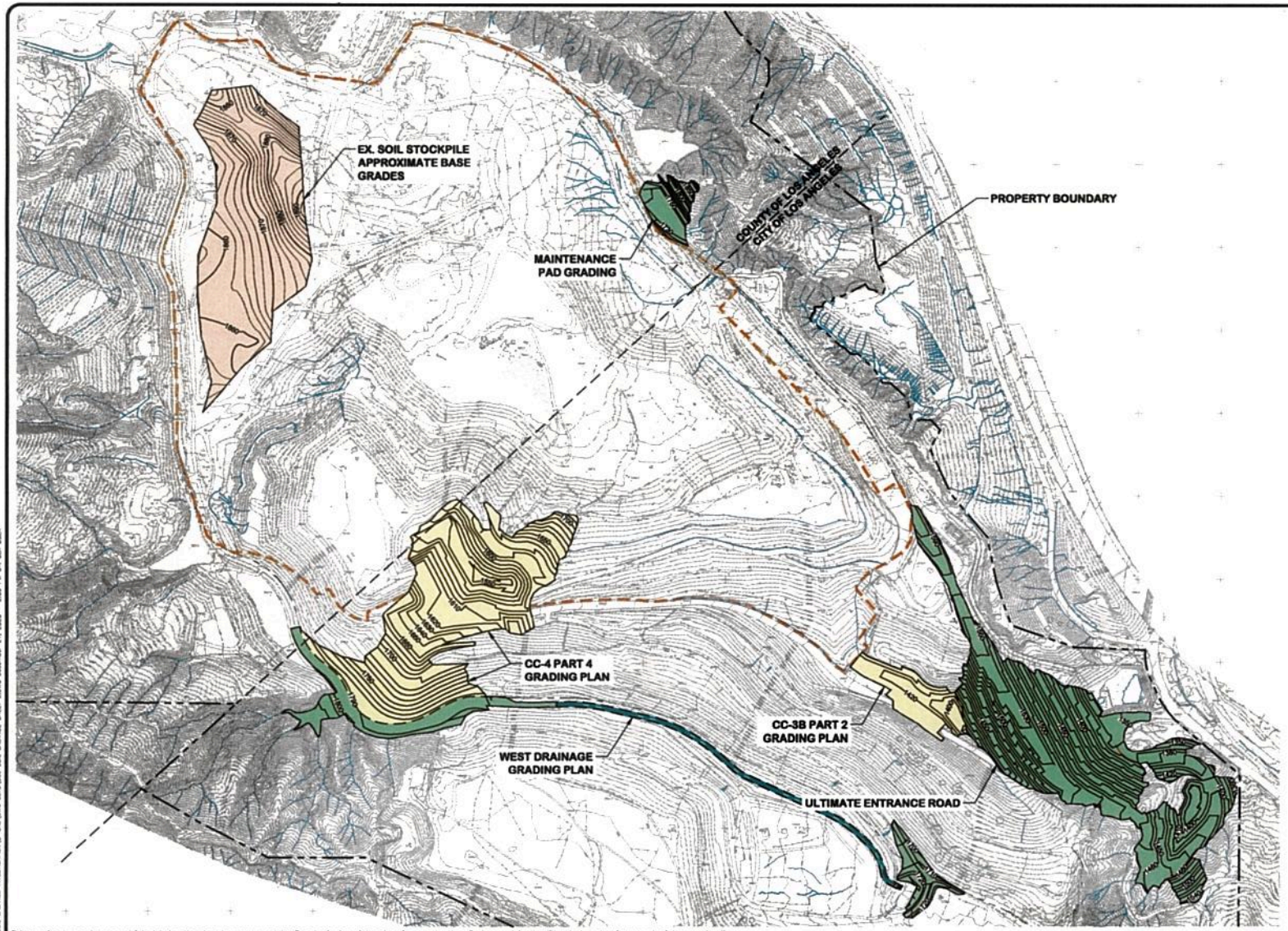

LEGEND

- EXISTING TOPOGRAPHY, 10 FT ELEVATION CONTOUR
- EXISTING TOPOGRAPHY, 2 FT ELEVATION CONTOUR
- SOIL STOCKPILE TOPOGRAPHY, 10 FT ELEVATION CONTOUR
- SOIL STOCKPILE TOPOGRAPHY, 2 FT ELEVATION CONTOUR
- FUTURE GRADING, 10 FT ELEVATION CONTOUR
- FUTURE GRADING, 2 FT ELEVATION CONTOUR
- ZERO CUT OR FILL ISOPACH CONTOUR
- 10 FT ISOPACH FILL CONTOUR
- 2 FT ISOPACH FILL CONTOUR
- 10 FT ISOPACH CUT CONTOUR
- 2 FT ISOPACH CUT CONTOUR
- APPROXIMATE LIMITS OF USED LANDFILL FOOTPRINT
- PERMITTED LANDFILL FOOTPRINT

NOTES:

1. EXISTING TOPOGRAPHY BASED ON AERIAL SURVEY BY COOPER AERIAL SURVEY CO. ON FEBRUARY 13, 2020.
2. BASE OF COUNTY DECK SOIL STOCKPILE DETERMINED THROUGH POTHOLING.
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SUNSHINE CANYON LANDFILL
SOIL BALANCE ANALYSIS
SYLMAR, CALIFORNIA

GRADING OF SOIL PROJECTS & STOCKPILE

DWG NO. 02

PROJECT NO. 5020.1076

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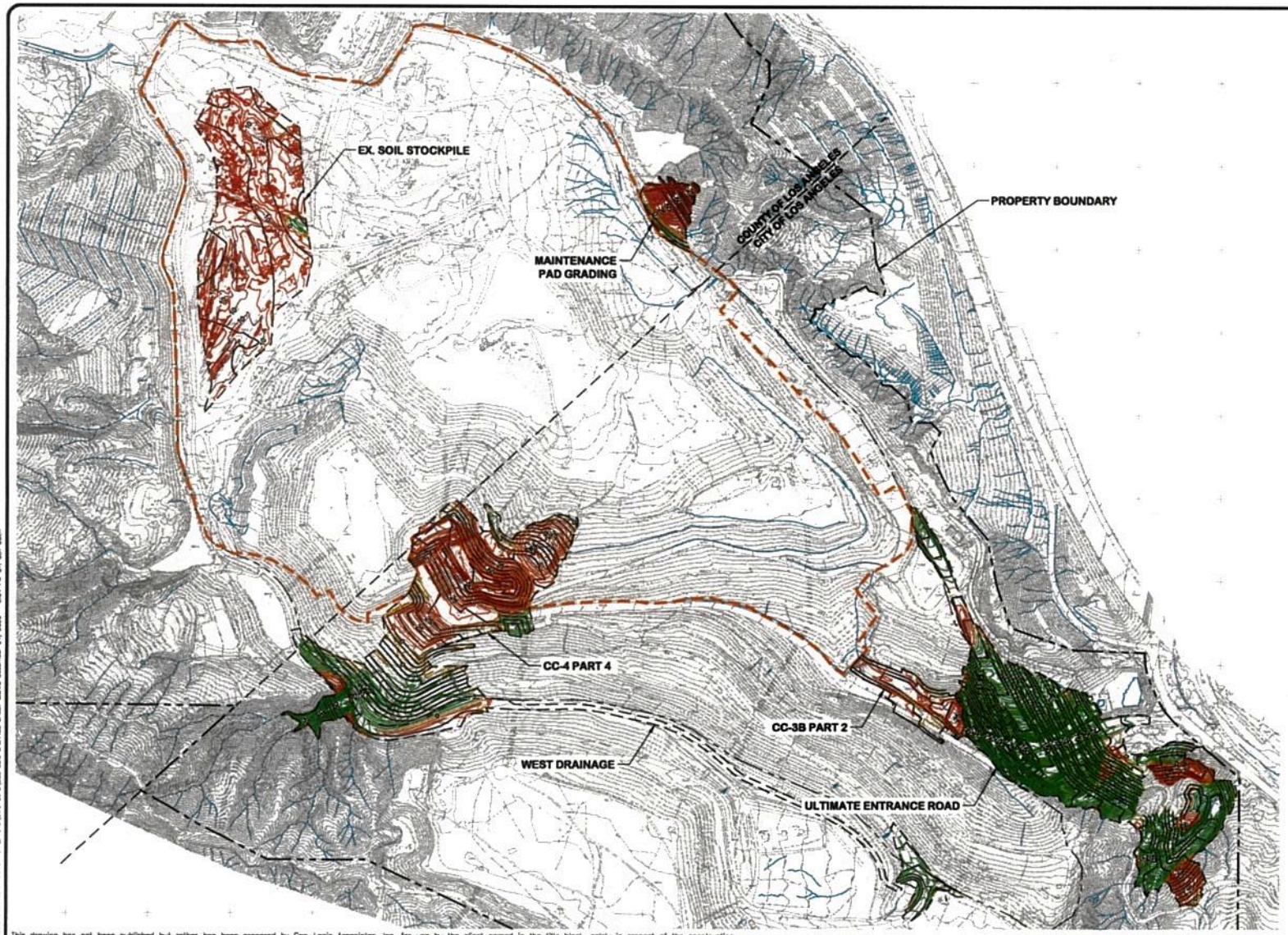

LEGEND

- EXISTING TOPOGRAPHY, 10 FT ELEVATION CONTOUR
- EXISTING TOPOGRAPHY, 2 FT ELEVATION CONTOUR
- PROPOSED GRADING, 10 FT ELEVATION CONTOUR
- 0 — ZERO CUT OR FILL ISOPACH CONTOUR
- 25 — 25 FT ISOPACH FILL CONTOUR
- 5 FT ISOPACH FILL CONTOUR
- 25 — 25 FT ISOPACH CUT CONTOUR
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3. EXISTING AND PROPOSED GRADING FEATURES BASED ON EXISTING CONDITIONS AT THE TIME OF THE AERIAL SURVEY.
4. ISOPACH FOR STOCKPILE CREATED BY COMPARING THE BASE GRADES OF THE SOIL STOCKPILE WITH THE 02/13/20 SURVEY.
5. ISOPACH FOR THE CELL EXPANSION PROJECTS CREATED BY COMPARING THE 02/13/20 SURVEY WITH THE PERMITTED BASE GRADES.
6. ISOPACH FOR GRADING PROJECTS CREATED BY COMPARING THE 02/13/20 SURVEY WITH THE PROPOSED GRADING PLANS.

N

300' 0' 150' 300' 600'

SCALE: 1" = 300'

ISSUED FOR REVIEW

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SUNSHINE CANYON LANDFILL
SOIL BALANCE ANALYSIS
SYLMAR, CALIFORNIA

ISOPACH OF SOIL PROJECTS & STOCKPILE

DWG NO. 03

PROJECT NO. 5020.1076

N:\SUNSHINE CANYON\2020 SOIL BALANCE INVESTIGATION\3-CAD\DWG SITE\SOIL SOIL BALANCE SHEET 2.DWG December 21, 2020 - 2:04 PM BY: ELA USER

SOIL USAGE - INTERMEDIATE ENHANCED COVER

9-INCH COMPACTED DAILY COVER USAGE

9-INCH COVER AVERAGE MONTHLY VOL (2009-2015) = 66,570 CY

YEAR	PROJECT	FILL	
2009	9 INCH COMPACTED DAILY COVER (OCT - DEC)	200,010	CY
2010	9 INCH COMPACTED DAILY COVER	800,040	CY
2011	9 INCH COMPACTED DAILY COVER	800,040	CY
2012	9 INCH COMPACTED DAILY COVER	800,040	CY
2013	9 INCH COMPACTED DAILY COVER	800,040	CY
2014	9 INCH COMPACTED DAILY COVER	800,040	CY
2015	9 INCH COMPACTED DAILY COVER (JAN - OCT)	600,030	CY
	SUBTOTAL =	*4,800,240*	*CY*

INTERMEDIATE COVER PROJECTS

YEAR	PROJECT	FILL	
2017	CLOSURE TURF (21 AC)	20,060	CY
2017	POSI-SHELL (3.6 AC)	5,810	CY
2017	VEGETATIVE COVER OVER POSI-SHELL (28.2 AC)	45,500	CY
2017	VEGETATIVE COVER W/ HYDROSEED (19 AC)	30,650	CY
	SUBTOTAL =	*101,960*	*CY*
2018	CLOSURE TURF (4 AC)	430	CY
	SUBTOTAL =	*430*	*CY*
	TOTAL SOIL USED =	*4,902,630*	*CY*

SOIL BALANCE REQUIREMENTS AS OF JANUARY 1, 2020

AVERAGE DAILY TONS = 8,000
OPERATIONAL DENSITY = 1,050
PERCENT SOIL TO WASTE = 15%

YEAR	PROJECT	CUT	FILL	NET CUT	NET FILL	OPERATIONS	IMPORTED SOIL	TO STOCKPILE	FROM STOCKPILE	NET TO/FROM STOCKPILE	STOCKPILE BALANCE		
											252,440	CY	*AS OF 1/21/2020 TOPO SURVEY*
2020	CC4P4A	(414,174)	18,965	(395,209)	-			395,209	-				
2020	PCS FOR CC4P3	-	33,000	-	33,000			-	(33,000)				
2020	PCS FOR CC4P4A (4 AC)	-	26,400	-	26,400			-	(26,400)				
2020	OPERATIONS DAILY/INTERMEDIATE COVER					442,800		-	(442,800)				
2020	IMPORTED SOIL						30,000	30,000	-				
			SUBTOTAL =	*(395,209)*	*59,400*	*442,800*	*30,000*	*425,209*	*(502,200)*	*(76,991)*	*175,449*	*CY*	*DECEMBER 31, 2020*
2021	CC4P4B/WEST DRAINAGE CHANNEL PH 2	(55,866)	175,254	-	109,266			-	(109,266)				
2021	PCS FOR CC4P4B (13 AC)	-	48,240	-	48,240			-	(48,240)				
2021	ENTRY ROAD PHASE 1 AND 2	(187,680)	443,525	-	255,870			-	(255,870)				
2021	MAINTENANCE PAD	(54,250)	2,170	(52,080)	-			52,080	-				
2021	OPERATIONS DAILY/INTERMEDIATE COVER					442,800		-	(442,800)				
2021	IMPORTED SOIL						-	-	-				
			SUBTOTAL =	*(52,080)*	*423,376*	*442,800*	*-*	*52,080*	*(266,176)*	*(804,896)*	*(629,647)*	*CY*	*DECEMBER 31, 2021*
2022	CC4P4C	-	-	-	-			-	-				
2022	PCS FOR CC4P4C (3.9 AC)	-	14,479	-	14,479			-	(14,479)				
2022	ENTRY ROAD PHASE 3-5	(94,530)	1,270,986	-	1,176,456			-	(1,176,456)				
2022	WEST DRAINAGE CHANNEL PH 3	(3,000)	25,200	-	20,200			-	(20,200)				
2022	OPERATIONS DAILY/INTERMEDIATE COVER					442,800		-	(442,800)				
2022	IMPORTED SOIL						-	-	-				
			SUBTOTAL =	*-*	*1,210,135*	*442,800*	*-*		*(1,652,935)*	*(1,652,935)*	*(2,281,582)*	*CY*	*DECEMBER 31, 2022*
2023	CC3P3A/CC5 PART 1A	-	10,000	-	10,000			-	(10,000)				
2023	PCS FOR CC3P2A (5.8 AC)	-	25,230	-	25,230			-	(25,230)				
2023	PCS for CC5P1A (9 AC)	-	33,400	-	33,400			-	(33,400)				
2023	OPERATIONS DAILY/INTERMEDIATE COVER					442,800		-	(442,800)				
2023	IMPORTED SOIL						-	-	-				
			SUBTOTAL =	*-*	*68,630*	*442,800*	*-*	*-*	*(511,430)*	*(511,430)*	*(2,793,012)*	*CY*	*DECEMBER 31, 2023*
2024	CC5P1B	-	10,000	-	10,000			-	(10,000)				
2024	PCS FOR CC5P1B (8 AC)	-	29,690	-	29,690			-	(29,690)				
2024	OPERATIONS DAILY/INTERMEDIATE COVER					442,800		-	(442,800)				
2024	IMPORTED SOIL						-	-					
			SUBTOTAL =			*442,800*	*-*	*-*	*(742,800)*	*(742,800)*	*(3,535,812)*	*CY*	*DECEMBER 31, 2024*
2025	CC5P1C	-	10,000	-	10,000			-	(10,000)				
2025	PCS for CC5P1C (8.1 AC)	-	33,770	-	33,770			-	(33,770)				
2025	OPERATIONS DAILY/INTERMEDIATE COVER					442,800		-	(442,800)				
2025	IMPORTED SOIL						-	-					
			SUBTOTAL =			*442,800*	*-*	*-*	*(486,570)*	*(486,570)*	*(4,022,382)*	*CY*	*DECEMBER 31, 2025*
2026-2037	REMAINING LINER PROJECTS	-	50,000	-	50,000			-	(50,000)				
2026-2037	PCS FOR REMAINING LINER (45.2 AC)	-	167,720	-	167,720			-	(167,720)				
2026-2037	OPERATIONS DAILY/INTERMEDIATE COVER					442,800		-	(442,800)				
2026-2037	FINAL COVER					8,227,700		-	(8,227,700)				
2026-2037	IMPORTED SOIL						-	-	-				
			SUBTOTAL =		*217,720*	*8,538,560*	*-*	*-*			*(12,778,762)*	*CY*	*EXPIRATION OF PERMIT 2037*

This drawing has not been published but rather has been prepared by Geo-Logic Associates, Inc. for use by the client named in the title block, solely in respect of the construction operation, and maintenance of the facility named in the title block. Geo-Logic Associates, Inc. shall not be liable for the use of this drawing on any other facility or for any other purpose.

ISSUED FOR REVIEW

REFERENCE AERIAL TOPO BASED ON FEBRUARY 13, 2020 AERIAL SURVEY BY COOPER AERIAL SURVEYS CO.

REV. NO.	DATE	DESCRIPTION	APPROVED BY

DATE OF ISSUE: DEC 18, 2020
DESIGNED BY: C BARRETT
DRAWN BY: J ALAYA
CHECKED BY: C BARRETT
APPROVED BY: C BARRETT

DIGALERT 811

Geo-Logic ASSOCIATES
2777 EAST GUASTI ROAD
SUITE 1
ONTARIO, CA 91761
(909) 626-2282
www.geo-logic.com

REPUBLIC SERVICES

SUNSHINE CANYON LANDFILL
14747 SAN FERNANDO ROAD
SYLMAR, CA. 91342

SUNSHINE CANYON LANDFILL
SOIL BALANCE ANALYSIS
SYLMAR, CALIFORNIA

SOIL BALANCE CALCULATIONS

DWG NO. ---

PROJECT NO. 5020.1076

N:\SUNSHINE CANYON\2020 SOIL BALANCE INVESTIGATION\3-CAD\DWG SITE\SOIL BALANCE SHEET 4.DWG December 21, 2020 - 2:04 PM BY GLA USER

Enclosure 2

FUGITIVE DUST CONTROL
(SCAQMD Rule 403 Table 2 and 3 Control Measures)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Earth Moving - Control Measures																															
Conduct watering as necessary to prevent visible emissions from extending more than 100' beyond the active cut unless the area is inaccessible to watering due to slope conditions or other safety factors																															
Earth Moving Activities - Contingency Control Measures																															
Cease all active operations OR																															
Apply water to soil not more than 15 minutes prior to moving the soil																															
Disturbed Surface Area - Control Measure																															
Applied dust suppression to maintain stablized surfaces																															
Applied soil sealant on benches																															
Apply soil sealant on stockpiles and closed landfill																															
Inactive Disturbed Surface - Control Measure																															
Apply water on an as-needed basis																															
Inactive Disturbed Surface - Contingency Control Measure																															
Utilize wood chips/mulch for long term dust control as consistent with federal, state, and local regulations																															
Unpaved roads - Control Measures																															
Water all roads used for any vehicular traffic on an as-needed basis.																															
Reduce road travel as much as possible																															
Unpaved roads - Contingency Control Measures																															
Stop all vehicular traffic																															
Open Storage Piles - Control Measure																															
Apply water on an as-needed basis																															
Minimize disturbance to the surface crust																															

FUGITIVE DUST CONTROL
(SCAQMD Rule 403 Table 2 and 3 Control Measures)

Month:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Paved Road Track-out - Control Measure																															
Operate water truck on an as-needed basis																															
Operate sweeper on an as-needed basis																															
No track-out to extend 25' or more in cumulative length from the piont of origin from an active operation. All track-out from an active opation shall be removed at the conclusion of each work day.																															

Inspected by (name): Fred Jones

Notes:

Enclosure 3

(Adopted May 7, 1976) (Amended November 6, 1992)
(Amended July 9, 1993) (Amended February 14, 1997)
(Amended December 11, 1998)(Amended April 2, 2004)
(Amended June 3, 2005)

RULE 403. FUGITIVE DUST

(a) Purpose

The purpose of this Rule is to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (man-made) fugitive dust sources by requiring actions to prevent, reduce or mitigate fugitive dust emissions.

(b) Applicability

The provisions of this Rule shall apply to any activity or man-made condition capable of generating fugitive dust.

(c) Definitions

(1) ACTIVE OPERATIONS means any source capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface area, or heavy- and light-duty vehicular movement.

(2) AGGREGATE-RELATED PLANTS are defined as facilities that produce and / or mix sand and gravel and crushed stone.

(3) AGRICULTURAL HANDBOOK means the region-specific guidance document that has been approved by the Governing Board or hereafter approved by the Executive Officer and the U.S. EPA. For the South Coast Air Basin, the Board-approved region-specific guidance document is the Rule 403 Agricultural Handbook dated December 1998. For the Coachella Valley, the Board-approved region-specific guidance document is the Rule 403 Coachella Valley Agricultural Handbook dated April 2, 2004.

(4) ANEMOMETERS are devices used to measure wind speed and direction in accordance with the performance standards, and maintenance and calibration criteria as contained in the most recent Rule 403 Implementation Handbook.

(5) BEST AVAILABLE CONTROL MEASURES means fugitive dust control actions that are set forth in Table 1 of this Rule.

(6) BULK MATERIAL is sand, gravel, soil, aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.

(7) CEMENT MANUFACTURING FACILITY is any facility that has a cement kiln at the facility.

(8) CHEMICAL STABILIZERS are any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation. The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.

(9) COMMERCIAL POULTRY RANCH means any building, structure, enclosure, or premises where more than 100 fowl are kept or maintained for the primary purpose of producing eggs or meat for sale or other distribution.

(10) CONFINED ANIMAL FACILITY means a source or group of sources of air pollution at an agricultural source for the raising of 3,360 or more fowl or 50 or more animals, including but not limited to, any structure, building, installation, farm, corral, coop, feed storage area, milking parlor, or system for the collection, storage, or distribution of solid and liquid manure; if domesticated animals, including horses, sheep, goats, swine, beef cattle, rabbits, chickens, turkeys, or ducks are corralled, penned, or otherwise caused to remain in restricted areas for commercial agricultural purposes and feeding is by means other than grazing.

(11) CONSTRUCTION/DEMOLITION ACTIVITIES means any on-site mechanical activities conducted in preparation of, or related to, the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities: grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.

(12) CONTRACTOR means any person who has a contractual arrangement to conduct an active operation for another person.

(13) DAIRY FARM is an operation on a property, or set of properties that are contiguous or separated only by a public right-of-way, that raises cows or

produces milk from cows for the purpose of making a profit or for a livelihood. Heifer and calf farms are dairy farms.

(14) DISTURBED SURFACE AREA means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:

(A) been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;

(B) been paved or otherwise covered by a permanent structure; or

(C) sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.

(15) DUST SUPPRESSANTS are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.

(16) EARTH-MOVING ACTIVITIES means the use of any equipment for any activity where soil is being moved or uncovered, and shall include, but not be limited to the following: grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, weed abatement through disking, and soil mulching.

(17) DUST CONTROL SUPERVISOR means a person with the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 requirements at an active operation.

(18) FUGITIVE DUST means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of any person.

(19) HIGH WIND CONDITIONS means that instantaneous wind speeds exceed 25 miles per hour.

(20) INACTIVE DISTURBED SURFACE AREA means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of 20 consecutive days.

(21) LARGE OPERATIONS means any active operations on property which contains 50 or more acres of disturbed surface area; or any earth-moving operation with a daily earth-moving or throughput volume of 3,850 cubic

meters (5,000 cubic yards) or more three times during the most recent 365-day period.

(22) OPEN STORAGE PILE is any accumulation of bulk material, which is not fully enclosed, covered or chemically stabilized, and which attains a height of three feet or more and a total surface area of 150 or more square feet.

(23) PARTICULATE MATTER means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.

(24) PAVED ROAD means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excluding access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal or any other governmental or quasi-governmental agencies. Private paved roads are any paved roads not defined as public.

(25) PM_{10} means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable State and Federal reference test methods.

(26) PROPERTY LINE means the boundaries of an area in which either a person causing the emission or a person allowing the emission has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.

(27) RULE 403 IMPLEMENTATION HANDBOOK means a guidance document that has been approved by the Governing Board on April 2, 2004 or hereafter approved by the Executive Officer and the U.S. EPA.

(28) SERVICE ROADS are paved or unpaved roads that are used by one or more public agencies for inspection or maintenance of infrastructure and which are not typically used for construction-related activity.

(29) SIMULTANEOUS SAMPLING means the operation of two PM_{10} samplers in such a manner that one sampler is started within five minutes of the other, and each sampler is operated for a consecutive period which must be not less than 290 minutes and not more than 310 minutes.

(30) SOUTH COAST AIR BASIN means the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange

County as defined in California Code of Regulations, Title 17, Section 60104. The area is bounded on the west by the Pacific Ocean, on the north and east by the San Gabriel, San Bernardino, and San Jacinto Mountains, and on the south by the San Diego county line.

(31) STABILIZED SURFACE means any previously disturbed surface area or open storage pile which, through the application of dust suppressants, shows visual or other evidence of surface crusting and is resistant to wind-driven fugitive dust and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the Rule 403 Implementation Handbook.

(32) TRACK-OUT means any bulk material that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that have been released onto a paved road and can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.

(33) TYPICAL ROADWAY MATERIALS means concrete, asphaltic concrete, recycled asphalt, asphalt, or any other material of equivalent performance as determined by the Executive Officer, and the U.S. EPA.

(34) UNPAVED ROADS means any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by typical roadway materials. Public unpaved roads are any unpaved roadway owned by federal, state, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public.

(35) VISIBLE ROADWAY DUST means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.

(36) WIND-DRIVEN FUGITIVE DUST means visible emissions from any disturbed surface area which is generated by wind action alone.

(37) WIND GUST is the maximum instantaneous wind speed as measured by an anemometer.

(d) Requirements

(1) No person shall cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area such that:

(A) the dust remains visible in the atmosphere beyond the property line of the emission source; or

(B) the dust emission exceeds 20 percent opacity (as determined by the appropriate test method included in the Rule 403 Implementation Handbook), if the dust emission is the result of movement of a motorized vehicle.

(2) No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation.

(3) No person shall cause or allow PM_{10} levels to exceed 50 micrograms per cubic meter when determined, by simultaneous sampling, as the difference between upwind and downwind samples collected on high-volume particulate matter samplers or other U.S. EPA-approved equivalent method for PM_{10} monitoring. If sampling is conducted, samplers shall be:

(A) Operated, maintained, and calibrated in accordance with 40 Code of Federal Regulations (CFR), Part 50, Appendix J, or appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent method(s) for PM_{10}.

(B) Reasonably placed upwind and downwind of key activity areas and as close to the property line as feasible, such that other sources of fugitive dust between the sampler and the property line are minimized.

(4) No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. Notwithstanding the preceding, all track-out from an active operation shall be removed at the conclusion of each workday or evening shift.

(5) No person shall conduct an active operation with a disturbed surface area of five or more acres, or with a daily import or export of 100 cubic yards or more of bulk material without utilizing at least one of the measures listed in subparagraphs (d)(5)(A) through (d)(5)(E) at each vehicle egress from the site to a paved public road.

(A) Install a pad consisting of washed gravel (minimum-size: one inch) maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long.

(B) Pave the surface extending at least 100 feet and at least 20 feet wide.

(C) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least 24 feet long and 10 feet wide to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.

(D) Install and utilize a wheel washing system to remove bulk material from tires and vehicle undercarriages before vehicles exit the site.

(E) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the actions specified in subparagraphs (d)(5)(A) through (d)(5)(D).

(6) Beginning January 1, 2006, any person who operates or authorizes the operation of a confined animal facility subject to this Rule shall implement the applicable conservation management practices specified in Table 4 of this Rule.

(e) Additional Requirements for Large Operations

(1) Any person who conducts or authorizes the conducting of a large operation subject to this Rule shall implement the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards can not be met through use of Table 2 actions; and shall:

(A) submit a fully executed Large Operation Notification (Form 403 N) to the Executive Officer within 7 days of qualifying as a large operation;

(B) include, as part of the notification, the name(s), address(es), and phone number(s) of the person(s) responsible for the submittal, and a description of the operation(s), including a map depicting the location of the site;

(C) maintain daily records to document the specific dust control actions taken, maintain such records for a period of not less than three years; and make such records available to the Executive Officer upon request;

(D) install and maintain project signage with project contact signage that meets the minimum standards of the Rule 403 Implementation Handbook, prior to initiating any earthmoving activities;

(E) identify a dust control supervisor that:

(i) is employed by or contracted with the property owner or developer;

(ii) is on the site or available on-site within 30 minutes during working hours;

(iii) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule requirements;

(iv) has completed the AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and

(F) notify the Executive Officer in writing within 30 days after the site no longer qualifies as a large operation as defined by paragraph (c)(18).

(2) Any Large Operation Notification submitted to the Executive Officer or AQMD-approved dust control plan shall be valid for a period of one year from the date of written acceptance by the Executive Officer. Any Large Operation Notification accepted pursuant to paragraph (e)(1), excluding those submitted by aggregate-related plants and cement manufacturing facilities must be resubmitted annually by the person who conducts or authorizes the conducting of a large operation, at least 30 days prior to the expiration date, or the submittal shall no longer be valid as of the expiration date. If all fugitive dust sources and corresponding control measures or special circumstances remain identical to those identified in the previously accepted submittal or in an AQMD-approved dust control plan, the resubmittal may be a simple statement of no-change (Form 403NC).

(f) Compliance Schedule

The newly amended provisions of this Rule shall become effective upon adoption. Pursuant to subdivision (e), any existing site that qualifies as a large operation will have 60 days from the date of Rule adoption to comply with the notification and recordkeeping requirements for large operations. Any Large Operation

Notification or AQMD-approved dust control plan which has been accepted prior to the date of adoption of these amendments shall remain in effect and the Large Operation Notification or AQMD-approved dust control plan annual resubmittal date shall be one year from adoption of this Rule amendment.

(g) Exemptions

(1) The provisions of this Rule shall not apply to:

(A) Dairy farms.

(B) Confined animal facilities provided that the combined disturbed surface area within one continuous property line is one acre or less.

(C) Agricultural vegetative crop operations provided that the combined disturbed surface area within one continuous property line and not separated by a paved public road is 10 acres or less.

(D) Agricultural vegetative crop operations within the South Coast Air Basin, whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:

(i) voluntarily implements the conservation management practices contained in the Rule 403 Agricultural Handbook;

(ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Agricultural Handbook; and

(iii) makes the completed self-monitoring form available to the Executive Officer upon request.

(E) Agricultural vegetative crop operations outside the South Coast Air Basin whose combined disturbed surface area includes more than 10 acres provided that the person responsible for such operations:

(i) voluntarily implements the conservation management practices contained in the Rule 403 Coachella Valley Agricultural Handbook; and

(ii) completes and maintains the self-monitoring form documenting sufficient conservation management practices, as described in the Rule 403 Coachella Valley Agricultural Handbook; and

(iii) makes the completed self-monitoring form available to the Executive Officer upon request.

(F) Active operations conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency.

(G) Active operations conducted by essential service utilities to provide electricity, natural gas, telephone, water and sewer during periods of service outages and emergency disruptions.

(H) Any contractor subsequent to the time the contract ends, provided that such contractor implemented the required control measures during the contractual period.

(I) Any grading contractor, for a phase of active operations, subsequent to the contractual completion of that phase of earth-moving activities, provided that the required control measures have been implemented during the entire phase of earth-moving activities, through and including five days after the final grading inspection.

(J) Weed abatement operations ordered by a county agricultural commissioner or any state, county, or municipal fire department, provided that:

(i) mowing, cutting or other similar process is used which maintains weed stubble at least three inches above the soil; and

(ii) any discing or similar operation which cuts into and disturbs the soil, where watering is used prior to initiation of these activities, and a determination is made by the agency issuing the weed abatement order that, due to fire hazard conditions, rocks, or other physical obstructions, it is not practical to meet the conditions specified in clause (g)(1)(H)(i). The provisions this clause shall not exempt the owner of any property from stabilizing, in accordance with paragraph (d)(2), disturbed surface areas which have been created as a result of the weed abatement actions.

(K) sandblasting operations.

(2) The provisions of paragraphs (d)(1) and (d)(3) shall not apply:

(A) When wind gusts exceed 25 miles per hour, provided that:

(i) The required Table 3 contingency measures in this Rule are implemented for each applicable fugitive dust source type, and;

(ii) records are maintained in accordance with subparagraph (e)(1)(C).

(B) To unpaved roads, provided such roads:

(i) are used solely for the maintenance of wind-generating equipment; or

(ii) are unpaved public alleys as defined in Rule 1186; or

(iii) are service roads that meet all of the following criteria:

(a) are less than 50 feet in width at all points along the road;

(b) are within 25 feet of the property line; and

(c) have a traffic volume less than 20 vehicle-trips per day.

(C) To any active operation, open storage pile, or disturbed surface area for which necessary fugitive dust preventive or mitigative actions are in conflict with the federal Endangered Species Act, as determined in writing by the State or federal agency responsible for making such determinations.

(3) The provisions of (d)(2) shall not apply to any aggregate-related plant or cement manufacturing facility that implements the applicable actions specified in Table 2 of this Rule at all times and shall implement the applicable actions specified in Table 3 of this Rule when the applicable performance standards of paragraphs (d)(1) and (d)(3) can not be met through use of Table 2 actions.

(4) The provisions of paragraphs (d)(1), (d)(2), and (d)(3) shall not apply to:

(A) Blasting operations which have been permitted by the California Division of Industrial Safety; and

(B) Motion picture, television, and video production activities when dust emissions are required for visual effects. In order to obtain this exemption, the Executive Officer must receive notification in writing at least 72 hours in advance of any such activity and no nuisance results from such activity.

(5) The provisions of paragraph (d)(3) shall not apply if the dust control actions, as specified in Table 2, are implemented on a routine basis for

each applicable fugitive dust source type. To qualify for this exemption, a person must maintain records in accordance with subparagraph (e)(1)(C).

(6) The provisions of paragraph (d)(4) shall not apply to earth coverings of public paved roadways where such coverings are approved by a local government agency for the protection of the roadway, and where such coverings are used as roadway crossings for haul vehicles provided that such roadway is closed to through traffic and visible roadway dust is removed within one day following the cessation of activities.

(7) The provisions of subdivision (e) shall not apply to:

(A) officially-designated public parks and recreational areas, including national parks, national monuments, national forests, state parks, state recreational areas, and county regional parks.

(B) any large operation which is required to submit a dust control plan to any city or county government which has adopted a District-approved dust control ordinance.

(C) any large operation subject to Rule 1158, which has an approved dust control plan pursuant to Rule 1158, provided that all sources of fugitive dust are included in the Rule 1158 plan.

(8) The provisions of subparagraph (e)(1)(A) through (e)(1)(C) shall not apply to any large operation with an AQMD-approved fugitive dust control plan provided that there is no change to the sources and controls as identified in the AQMD-approved fugitive dust control plan.

(h) Fees

Any person conducting active operations for which the Executive Officer conducts upwind/downwind monitoring for PM_{10} pursuant to paragraph (d)(3) shall be assessed applicable Ambient Air Analysis Fees pursuant to Rule 304.1. Applicable fees shall be waived for any facility which is exempted from paragraph (d)(3) or meets the requirements of paragraph (d)(3).

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Backfilling	01-1 Stabilize backfill material when not actively handling; and 01-2 Stabilize backfill material during handling; and 01-3 Stabilize soil at completion of activity.	✓ Mix backfill soil with water prior to moving ✓ Dedicate water truck or high capacity hose to backfilling equipment ✓ Empty loader bucket slowly so that no dust plumes are generated ✓ Minimize drop height from loader bucket
Clearing and grubbing	02-1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and 02-2 Stabilize soil during clearing and grubbing activities; and 02-3 Stabilize soil immediately after clearing and grubbing activities.	✓ Maintain live perennial vegetation where possible ✓ Apply water in sufficient quantity to prevent generation of dust plumes
Clearing forms	03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms.	✓ Use of high pressure air to clear forms may cause exceedance of Rule requirements
Crushing	04-1 Stabilize surface soils prior to operation of support equipment; and 04-2 Stabilize material after crushing.	✓ Follow permit conditions for crushing equipment ✓ Pre-water material prior to loading into crusher ✓ Monitor crusher emissions opacity ✓ Apply water to crushed material to prevent dust plumes

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Cut and fill	05-1 Pre-water soils prior to cut and fill activities; and 05-2 Stabilize soil during and after cut and fill activities.	✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration ✓ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts
Demolition – mechanical/manual	06-1 Stabilize wind erodible surfaces to reduce dust; and 06-2 Stabilize surface soil where support equipment and vehicles will operate; and 06-3 Stabilize loose soil and demolition debris; and 06-4 Comply with AQMD Rule 1403.	✓ Apply water in sufficient quantities to prevent the generation of visible dust plumes
Disturbed soil	07-1 Stabilize disturbed soil throughout the construction site; and 07-2 Stabilize disturbed soil between structures	✓ Limit vehicular traffic and disturbances on soils where possible ✓ If interior block walls are planned, install as early as possible ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes
Earth-moving activities	08-1 Pre-apply water to depth of proposed cuts; and 08-2 Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and 08-3 Stabilize soils once earth-moving activities are complete.	✓ Grade each project phase separately, timed to coincide with construction phase ✓ Upwind fencing can prevent material movement on site ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Importing/exporting of bulk materials	09-1 Stabilize material while loading to reduce fugitive dust emissions; and 09-2 Maintain at least six inches of freeboard on haul vehicles; and 09-3 Stabilize material while transporting to reduce fugitive dust emissions; and 09-4 Stabilize material while unloading to reduce fugitive dust emissions; and 09-5 Comply with Vehicle Code Section 23114.	✓ Use tarps or other suitable enclosures on haul trucks ✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage ✓ Comply with track-out prevention/mitigation requirements ✓ Provide water while loading and unloading to reduce visible dust plumes
Landscaping	10-1 Stabilize soils, materials, slopes	✓ Apply water to materials to stabilize ✓ Maintain materials in a crusted condition ✓ Maintain effective cover over materials ✓ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes ✓ Hydroseed prior to rain season
Road shoulder maintenance	11-1 Apply water to unpaved shoulders prior to clearing; and 11-2 Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.	✓ Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs ✓ Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Screening	12-1 Pre-water material prior to screening; and 12-2 Limit fugitive dust emissions to opacity and plume length standards; and 12-3 Stabilize material immediately after screening.	✓ Dedicate water truck or high capacity hose to screening operation ✓ Drop material through the screen slowly and minimize drop height ✓ Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point
Staging areas	13-1 Stabilize staging areas during use; and 13-2 Stabilize staging area soils at project completion.	✓ Limit size of staging area ✓ Limit vehicle speeds to 15 miles per hour ✓ Limit number and size of staging area entrances/exists
Stockpiles/ Bulk Material Handling	14-1 Stabilize stockpiled materials. 14-2 Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	✓ Add or remove material from the downwind portion of the storage pile ✓ Maintain storage piles to avoid steep sides or faces

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Traffic areas for construction activities	15-1 Stabilize all off-road traffic and parking areas; and 15-2 Stabilize all haul routes; and 15-3 Direct construction traffic over established haul routes.	✓ Apply gravel/paving to all haul routes as soon as possible to all future roadway areas ✓ Barriers can be used to ensure vehicles are only used on established parking areas/haul routes
Trenching	16-1 Stabilize surface soils where trencher or excavator and support equipment will operate; and 16-2 Stabilize soils at the completion of trenching activities.	✓ Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching ✓ Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment
Truck loading	17-1 Pre-water material prior to loading; and 17-2 Ensure that freeboard exceeds six inches (CVC 23114)	✓ Empty loader bucket such that no visible dust plumes are created ✓ Ensure that the loader bucket is close to the truck to minimize drop height while loading
Turf Overseeding	18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site.	✓ Haul waste material immediately off-site

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Unpaved roads/parking lots	19-1 Stabilize soils to meet the applicable performance standards; and 19-2 Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	✓ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements
Vacant land	20-1 In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures.	

Table 2
DUST CONTROL MEASURES FOR LARGE OPERATIONS

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS	
Earth-moving (except construction cutting and filling areas, and mining operations)	(1a)	Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR
	(1a-1)	For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.
Earth-moving: Construction fill areas:	(1b)	Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Executive Officer, the California Air Resources Board, and the U.S. EPA. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Executive Officer and the California Air Resources Board and the U.S. EPA, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.

Table 2 (Continued)

FUGITIVE DUST SOURCE CATEGORY		CONTROL ACTIONS
Earth-moving: Construction cut areas and mining operations:	(1c)	Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
Disturbed surface areas (except completed grading areas)	(2a/b)	Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area.
Disturbed surface areas: Completed grading areas	(2c)	Apply chemical stabilizers within five working days of grading completion; OR
	(2d)	Take actions (3a) or (3c) specified for inactive disturbed surface areas.
Inactive disturbed surface areas	(3a)	Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR
	(3b)	Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR
	(3c)	Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR
	(3d)	Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.

Table 2 (Continued)

FUGITIVE DUST SOURCE CATEGORY		CONTROL ACTIONS
Unpaved Roads	(4a)	Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR
	(4b)	Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR
	(4c)	Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.
Open storage piles	(5a)	Apply chemical stabilizers; OR
	(5b)	Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR
	(5c)	Install temporary coverings; OR
	(5d)	Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile. This option may only be used at aggregate-related plants or at cement manufacturing facilities.
All Categories	(6a)	Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.

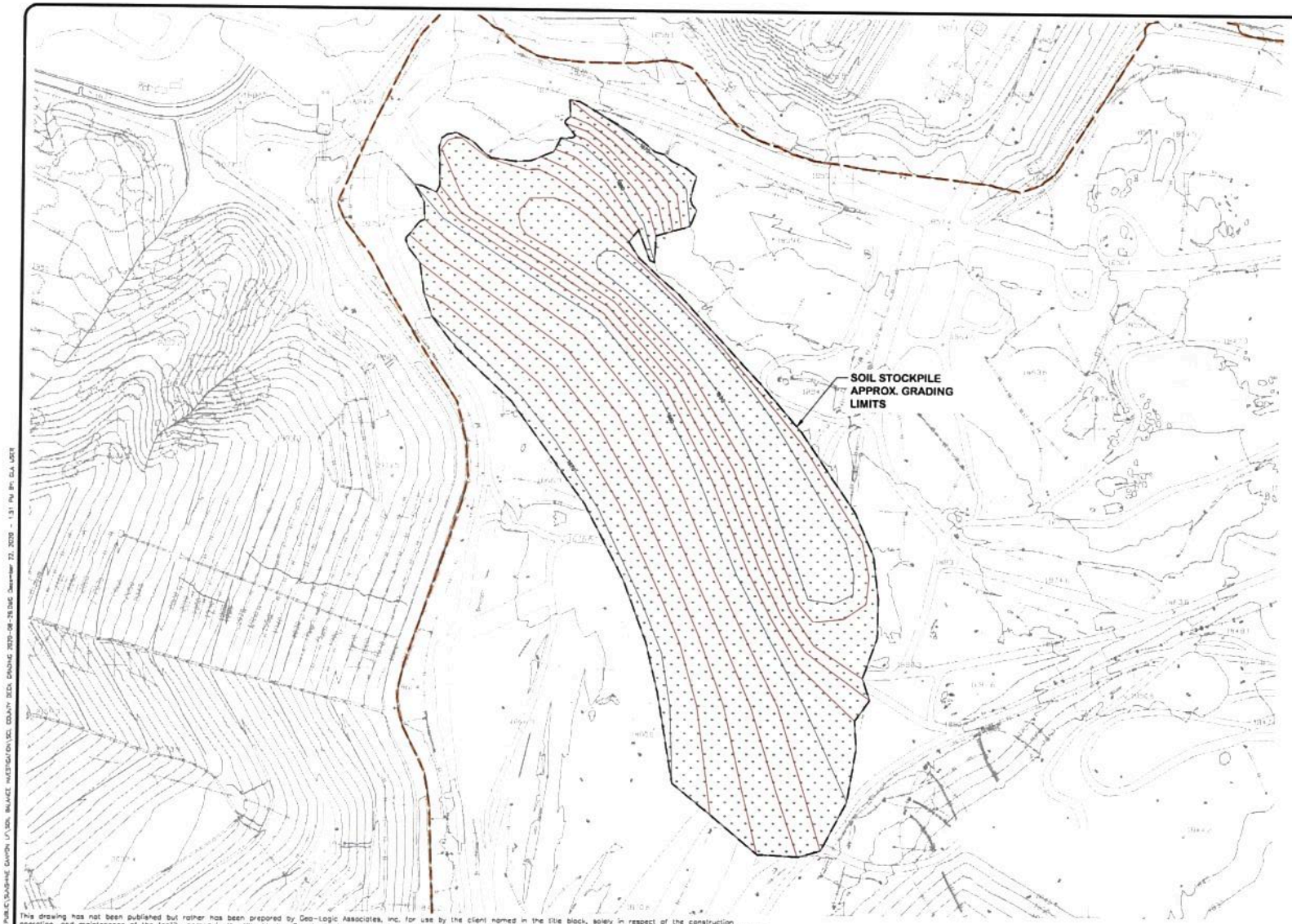
TABLE 3
CONTINGENCY CONTROL MEASURES FOR LARGE OPERATIONS

FUGITIVE DUST SOURCE CATEGORY	CONTROL MEASURES
Earth-moving	(1A) Cease all active operations; OR (2A) Apply water to soil not more than 15 minutes prior to moving such soil.
Disturbed surface areas	(0B) On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR (1B) Apply chemical stabilizers prior to wind event; OR (2B) Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR (3B) Take the actions specified in Table 2, Item (3c); OR (4B) Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all disturbed surface areas.
Unpaved roads	(1C) Apply chemical stabilizers prior to wind event; OR (2C) Apply water twice per hour during active operation; OR (3C) Stop all vehicular traffic.
Open storage piles	(1D) Apply water twice per hour; OR (2D) Install temporary coverings.
Paved road track-out	(1E) Cover all haul vehicles; OR (2E) Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
All Categories	(1F) Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.

Table 4
(Conservation Management Practices for Confined Animal Facilities)

SOURCE CATEGORY	CONSERVATION MANAGEMENT PRACTICES
Manure Handling **(Only applicable to Commercial Poultry Ranches)**	(1a) Cover manure prior to removing material off-site; AND (1b) Spread the manure before 11:00 AM and when wind conditions are less than 25 miles per hour; AND (1c) Utilize coning and drying manure management by removing manure at laying hen houses at least twice per year and maintain a base of no less than 6 inches of dry manure after clean out; or in lieu of complying with conservation management practice (1c), comply with conservation management practice (1d). (1d) Utilize frequent manure removal by removing the manure from laying hen houses at least every seven days and immediately thin bed dry the material.
Feedstock Handling	(2a) Utilize a sock or boot on the feed truck auger when filling feed storage bins.
Disturbed Surfaces	(3a) Maintain at least 70 percent vegetative cover on vacant portions of the facility; OR (3b) Utilize conservation tillage practices to manage the amount, orientation and distribution of crop and other plant residues on the soil surface year-round, while growing crops (if applicable) in narrow slots or tilled strips; OR (3c) Apply dust suppressants in sufficient concentrations and frequencies to maintain a stabilized surface.
Unpaved Roads	(4a) Restrict access to private unpaved roads either through signage or physical access restrictions and control vehicular speeds to no more than 15 miles per hour through worker notifications, signage, or any other necessary means; OR (4b) Cover frequently traveled unpaved roads with low silt content material (i.e., asphalt, concrete, recycled road base, or gravel to a minimum depth of four inches); OR (4c) Treat unpaved roads with water, mulch, chemical dust suppressants or other cover to maintain a stabilized surface.
Equipment Parking Areas	(5a) Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR (5b) Apply material with low silt content (i.e., asphalt, concrete, recycled road base, or gravel to a depth of four inches).

Enclosure 4



LEGEND

- (600) EXISTING CONTOURS, 10 FT ELEVATION CONTOUR
- EXISTING EXISTING, 2 FT ELEVATION CONTOUR
- 600 PROPOSED CONTOURS, 10 FT ELEVATION CONTOUR
- PROPOSED CONTOURS, 2 FT ELEVATION CONTOUR
- APPROXIMATE LIMITS OF USED LANDFILL FOOTPRINT
- PERMITTED LANDFILL FOOTPRINT
- HYDROSEED

100' 0' 50' 100' 200'

SCALE: 1" = 100'

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ISSUED FOR REVIEW

REFERENCE AERIAL TOPO BASED ON FEBRUARY 13, 2020 AERIAL SURVEY BY COOPER AERIAL SURVEYS CO.

REV. NO.	DATE	DESCRIPTION	APPROVED BY

DATE OF ISSUE: DEC 18, 2020
DESIGNED BY: C BARRETT
DRAWN BY: J AMAYA
CHECKED BY: C BARRETT
APPROVED BY: C BARRETT

DIGALERT 811

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SYLMAR, CA. 91342

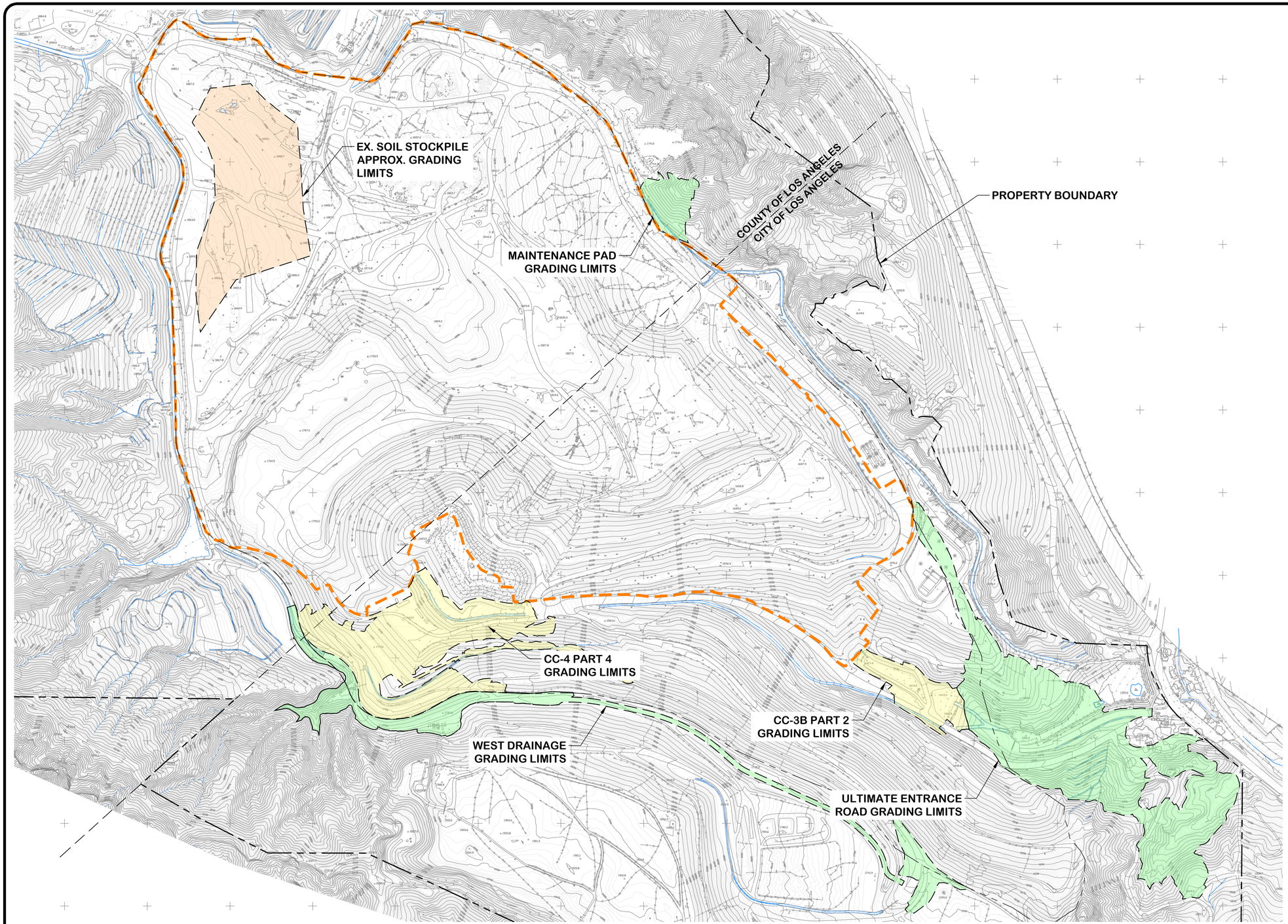
SUNSHINE CANYON LANDFILL
COUNTY DECK STOCKPILE
SYLMAR, CALIFORNIA

WINTERIZATION PLAN

DWG NO. 01

PROJECT NO. S020.1076

C:\DOCUMENTS\ALLIED-REPUBLIC\SUNSHINE CANYON LF\SOIL BALANCE INVESTIGATION\SCL COUNTY DECK GRADING 2020-08-26.DWG December 22, 2020 - 1:31 PM BY: GLA USER



LEGEND

- (600) EXISTING TOPOGRAPHY, 10 FT ELEVATION CONTOUR
- EXISTING TOPOGRAPHY, 2 FT ELEVATION CONTOUR
- LIMITS OF STOCKPILE
- LIMITS OF PROPOSED GRADING PROJECTS
- LIMITS OF LINER EXPANSION GRADING PROJECTS
- APPROXIMATE LIMITS OF USED LANDFILL FOOTPRINT
- PERMITTED LANDFILL FOOTPRINT

NOTES:

1. EXISTING TOPOGRAPHY BASED ON AERIAL SURVEY BY COOPER AERIAL SURVEY CO. ON FEBRUARY 18, 2021.
2. BASE OF COUNTY DECK SOIL STOCKPILE DETERMINED THROUGH POTHOLING.
3. EXISTING AND PROPOSED GRADING FEATURES BASED ON EXISTING CONDITIONS AT THE TIME OF THE AERIAL SURVEY.

N

300' 0' 150' 300' 600'

SCALE: 1" = 300'

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REGISTERED PROFESSIONAL ENGINEER
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C78076
Exp. 9/30/2023
STATE OF CALIFORNIA
12/17/2021

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SUNSHINE CANYON LANDFILL
SOIL BALANCE ANALYSIS
SYLMAR, CALIFORNIA

LIMITS OF SOIL PROJECTS & STOCKPILE

DWG NO. 01

PROJECT NO. SO20.1076

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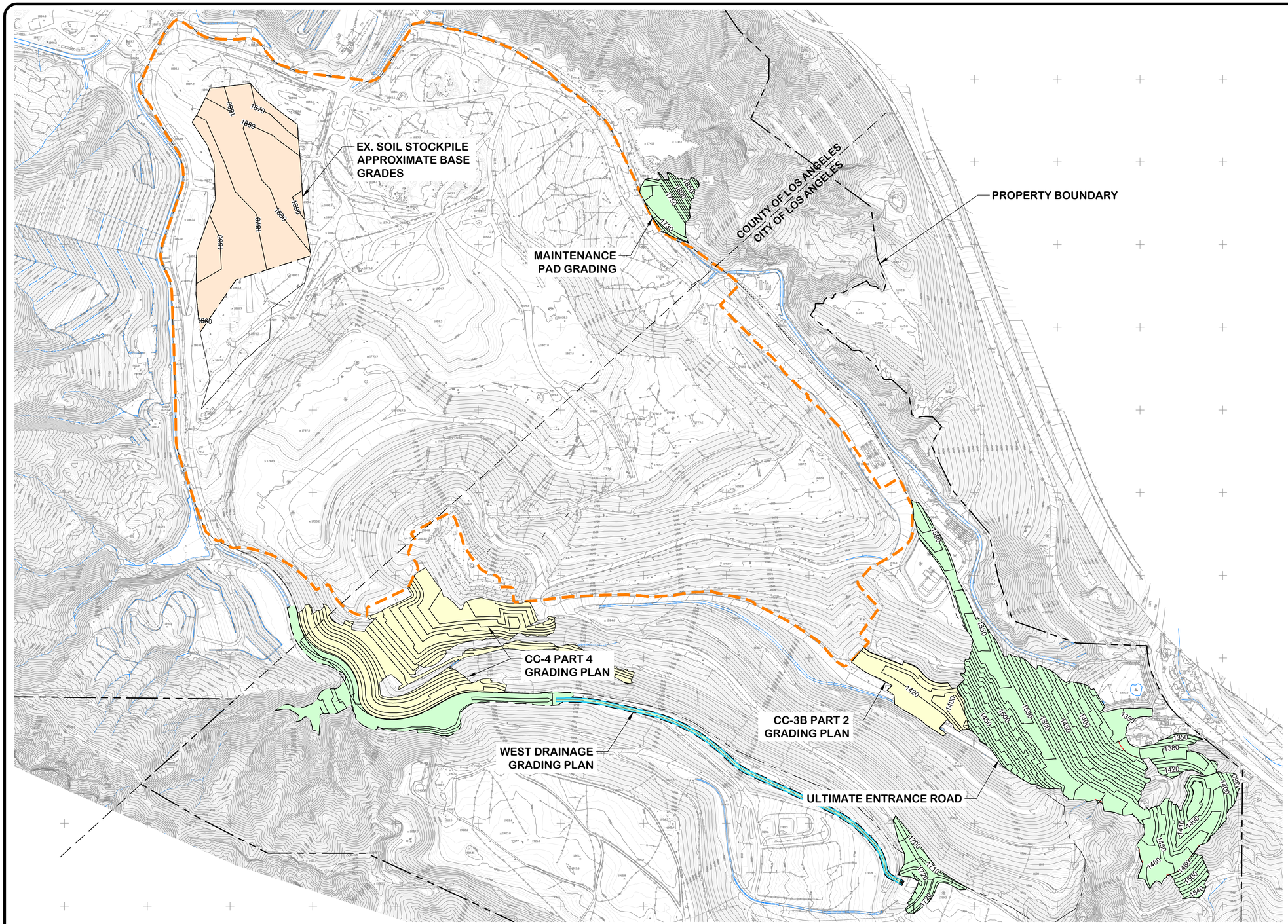

LEGEND

- (600) EXISTING TOPOGRAPHY, 10 FT ELEVATION CONTOUR
- EXISTING TOPOGRAPHY, 2 FT ELEVATION CONTOUR
- 10 SOIL STOCKPILE TOPOGRAPHY, 10 FT ELEVATION CONTOUR
- SOIL STOCKPILE TOPOGRAPHY, 2 FT ELEVATION CONTOUR
- 10 FUTURE GRADING, 10 FT ELEVATION CONTOUR
- FUTURE GRADING, 2 FT ELEVATION CONTOUR
- 0 ZERO CUT OR FILL ISOPACH CONTOUR
- 10 10 FT ISOPACH FILL CONTOUR
- 2 FT ISOPACH FILL CONTOUR
- 10 10 FT ISOPACH CUT CONTOUR
- 2 FT ISOPACH CUT CONTOUR
- APPROXIMATE LIMITS OF USED LANDFILL FOOTPRINT
- PERMITTED LANDFILL FOOTPRINT

NOTES:

1. EXISTING TOPOGRAPHY BASED ON AERIAL SURVEY BY COOPER AERIAL SURVEY CO. ON FEBRUARY 18, 2021.
2. BASE OF COUNTY DECK SOIL STOCKPILE DETERMINED THROUGH POTHOLING.
3. EXISTING AND PROPOSED GRADING FEATURES BASED ON EXISTING CONDITIONS AT THE TIME OF THE AERIAL SURVEY.

N

300' 0' 150' 300' 600'

SCALE: 1" = 300'

ISSUED FOR REVIEW

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12/17/2021

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SUNSHINE CANYON LANDFILL
SOIL BALANCE ANALYSIS
SYLMAR, CALIFORNIA

GRADING OF SOIL PROJECTS & STOCKPILE

DWG NO. 02

PROJECT NO. SO20.1076

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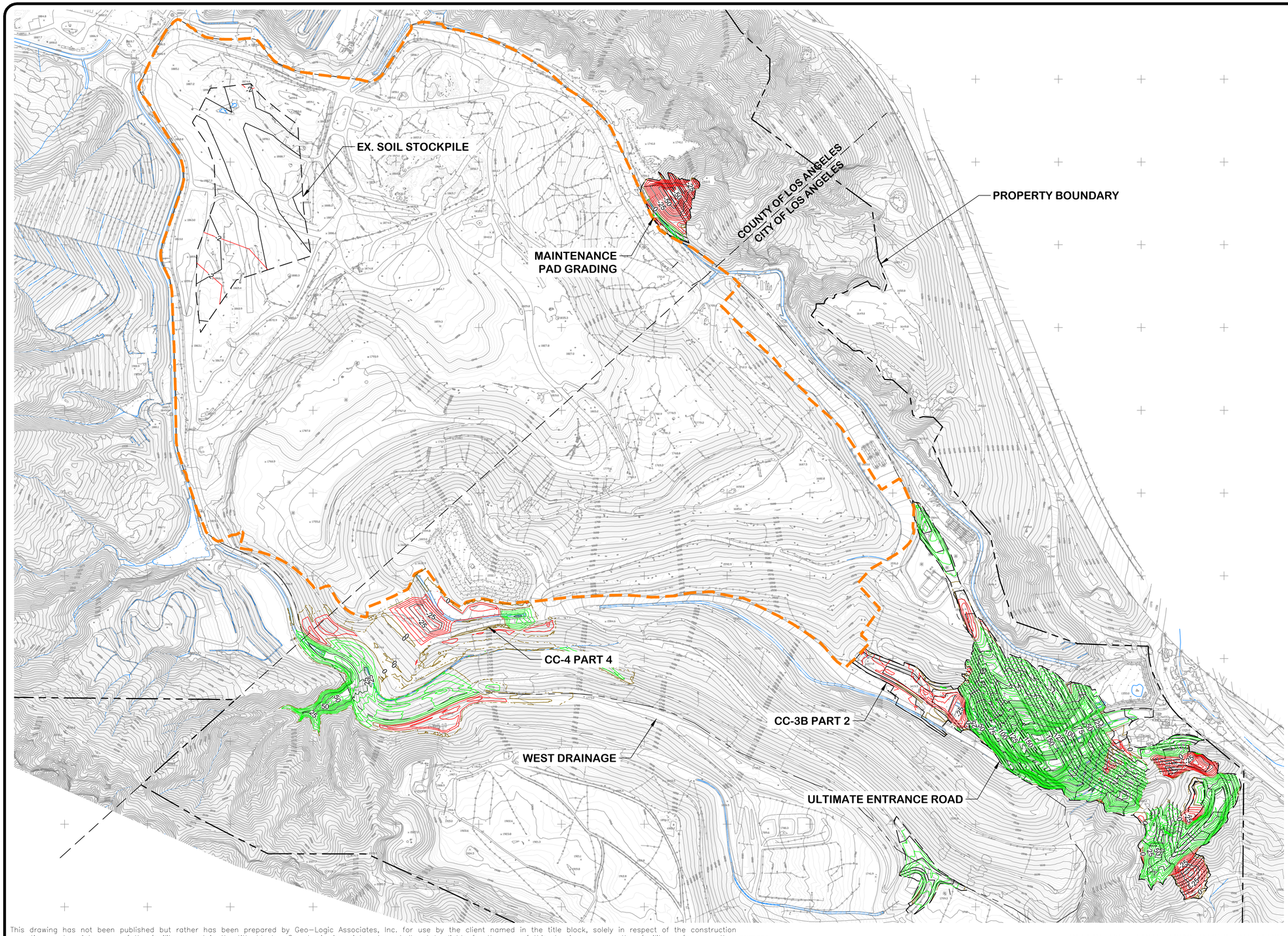

LEGEND

- (600) EXISTING TOPOGRAPHY, 10 FT ELEVATION CONTOUR
- EXISTING TOPOGRAPHY, 2 FT ELEVATION CONTOUR
- PROPOSED GRADING, 10 FT ELEVATION CONTOUR
- 0 ZERO CUT OR FILL ISOPACH CONTOUR
- 25 25 FT ISOPACH FILL CONTOUR
- 5 FT ISOPACH FILL CONTOUR
- 25 25 FT ISOPACH CUT CONTOUR
- 5 FT ISOPACH CUT CONTOUR
- APPROXIMATE LIMITS OF USED LANDFILL FOOTPRINT
- PERMITTED LANDFILL FOOTPRINT

NOTES:

1. EXISTING TOPOGRAPHY BASED ON AERIAL SURVEY BY COOPER AERIAL SURVEY CO. ON FEBRUARY 18, 2021.
2. BASE OF COUNTY DECK SOIL STOCKPILE DETERMINED THROUGH POTHOLING.
3. EXISTING AND PROPOSED GRADING FEATURES BASED ON EXISTING CONDITIONS AT THE TIME OF THE AERIAL SURVEY.
4. ISOPACH FOR STOCKPILE CREATED BY COMPARING THE BASE GRADES OF THE SOIL STOCKPILE WITH TOP OF SOIL ELEVATIONS SURVEYED ON 12/10/2021.
5. ISOPACH FOR THE CELL EXPANSION PROJECTS CREATED BY COMPARING THE 02/18/21 SURVEY WITH THE PERMITTED BASE GRADES.
6. ISOPACH FOR GRADING PROJECTS CREATED BY COMPARING THE 02/18/21 SURVEY WITH THE PROPOSED GRADING PLANS.

N

300' 0' 150' 300' 600'

SCALE: 1" = 300'

ISSUED FOR REVIEW

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SUNSHINE CANYON LANDFILL
SOIL BALANCE ANALYSIS
SYLMAR, CALIFORNIA

ISOPACH OF SOIL PROJECTS & STOCKPILE

DWG NO. 03
PROJECT NO. SO20.1076

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SOIL USAGE - INTERMEDIATE ENHANCED COVER

9-INCH COMPACTED DAILY COVER USAGE

9-INCH COVER AVERAGE MONTHLY VOL (2009-2015) = 66,670 CY

YEAR	PROJECT	FILL	
2009	9 INCH COMPACTED DAILY COVER (OCT - DEC)	200,010	CY
2010	9 INCH COMPACTED DAILY COVER	800,040	CY
2011	9 INCH COMPACTED DAILY COVER	800,040	CY
2012	9 INCH COMPACTED DAILY COVER	800,040	CY
2013	9 INCH COMPACTED DAILY COVER	800,040	CY
2014	9 INCH COMPACTED DAILY COVER	800,040	CY
2015	9 INCH COMPACTED DAILY COVER (JAN - OCT)	600,030	CY
	SUBTOTAL =	***4,800,240***	***CY***

INTERMEDIATE COVER PROJECTS

YEAR	PROJECT	FILL	
2017	CLOSURE TURF (21 AC)	20,000	CY
2017	POSI-SHELL (3.6 AC)	5,810	CY
2017	VEGETATIVE COVER OVER POSI-SHELL (28.2 AC)	45,500	CY
2017	VEGETATIVE COVER W/ HYDROSEED (19 AC)	30,650	CY
	SUBTOTAL =	***101,960***	***CY***
2018	CLOSURE TURF (4 AC)	430	CY
	SUBTOTAL =	***430***	***CY***
	TOTAL SOIL USED =	***4,902,630***	***CY***

SOIL BALANCE REQUIREMENTS AS OF JANUARY 1, 2021

AVERAGE DAILY TONS = 8,800
OPERATIONAL DENSITY = 1,600
PERCENT SOIL TO WASTE = 15%

YEAR	PROJECT	CUT	FILL	NET CUT	NET FILL	OPERATIONS	IMPORTED SOIL	TO STOCKPILE	FROM STOCKPILE	NET TO/FROM STOCKPILE	STOCKPILE BALANCE		
											175,449	***CY***	***AS OF 2/18/2021 TOPO SURVEY***
2021	CC4P4B/C & WEST DRAINAGE CHANNEL PH 2	(67,370)	170,600	-	103,230		3,750	-	(99,480)				
2021	PCS FOR CC4P4B/C (16.9 AC)	-	62,710	-	62,710			-	(62,710)				
2021	ENTRY ROAD PHASE 1	(114,960)	210,070	-	95,110			-	(95,110)				
2021	OPERATIONS DAILY/INTERMEDIATE COVER					471,900		-	(471,900)				
2021	IMPORTED SOIL						86,480	86,480	-				
			SUBTOTAL =	***-***	***261,050***	***471,900***	-	***86,480***	***(729,200)***	***(642,720)***	***(517,720)***	***CY***	***DECEMBER 31, 2021***
2022	ENTRY ROAD PHASE 2-5	(187,225)	1,513,450	-	1,326,225			-	(1,326,225)				
2022	MAINTENANCE PAD	(64,250)	2,170	(62,080)	-			62,080	-				
2022	WEST DRAINAGE CHANNEL PH 3	(5,000)	25,200	-	20,200			-	(20,200)				
2022	OPERATIONS DAILY/INTERMEDIATE COVER					471,900		-	(471,900)				
2022	IMPORTED SOIL						-	-	-				
			SUBTOTAL =	***(62,080)***	***1,346,425***	***471,900***	-	***(62,080)***	***(1,818,325)***	***(1,756,245)***	***(2,273,965)***	***CY***	***DECEMBER 31, 2022***
2023	CC3BP3A/CC5 PART 1A	-	10,000	-	10,000			-	(10,000)				
2023	PCS FOR CC3BP2A (6.8 AC)	-	25,230	-	25,230			-	(25,230)				
2023	PCS for CC5P1A (9 AC)	-	33,400	-	33,400			-	(33,400)				
2023	OPERATIONS DAILY/INTERMEDIATE COVER					471,900		-	(471,900)				
2023	IMPORTED SOIL						-	-	-				
			SUBTOTAL =	***-***	***68,630***	***471,900***	-	***-***	***(540,450)***	***(540,450)***	***(2,814,495)***	***CY***	***DECEMBER 31, 2023***
2024	CC5P1B	-	10,000	-	10,000			-	(10,000)				
2024	PCS FOR CC5P1B (8 AC)	-	29,690	-	29,690			-	(29,690)				
2024	OPERATIONS DAILY/INTERMEDIATE COVER					471,900		-	(471,900)				
2024	IMPORTED SOIL						-	-					
			SUBTOTAL =			***471,900***	-	-	***(771,900)***	***(771,900)***	***(3,556,395)***	***CY***	***DECEMBER 31, 2024***
2025	CC5P1C	-	10,000	-	10,000			-	(10,000)				
2025	PCS for CC5P1C (9.1 AC)	-	33,770	-	33,770			-	(33,770)				
2025	OPERATIONS DAILY/INTERMEDIATE COVER					471,900		-	(471,900)				
2025	IMPORTED SOIL						-	-					
			SUBTOTAL =			***471,900***	-	-	***(515,670)***	***(515,670)***	***(4,102,065)***	***CY***	***DECEMBER 31, 2025***
2026-2037	REMAINING LINER PROJECTS	-	50,000	-	50,000			-	(50,000)				
2026-2037	PCS FOR REMAINING LINER (45.2 AC)	-	167,720	-	167,720			-	(167,720)				
2026-2037	OPERATIONS DAILY/INTERMEDIATE COVER					442,800		-	(442,800)				
2026-2037	FINAL COVER					7,090,500		-	(7,090,500)				
2026-2037	IMPORTED SOIL						-	-	-				
			SUBTOTAL =		***217,720***	***7,401,460***	-	-	***(7,619,180)***	***(7,619,180)***	***(11,721,245)***	***CY***	***EXPIRATION OF PERMIT 2037***

This drawing has not been published but rather has been prepared by Geo-Logic Associates, Inc. for use by the client named in the title block, solely in respect of the construction operation, and maintenance of the facility named in the title block. Geo-Logic Associates, Inc. shall not be liable for the use of this drawing on any other facility or for any other purpose.

ISSUED FOR REVIEW

REFERENCE AERIAL TOPO BASED ON FEBRUARY 18, 2021 AERIAL SURVEY BY COOPER AERIAL SURVEYS CO.

REV. NO.	DATE	DESCRIPTION	APPROVED BY

DATE OF ISSUE: DEC 17, 2021
DESIGNED BY: C BARRETT
DRAWN BY: J AMAYA
CHECKED BY: C BARRETT
APPROVED BY: C BARRETT

DIGALERT 811

Geo-Logic ASSOCIATES
2777 EAST GUASTI ROAD
SUITE 1
ONTARIO, CA 91761
(909) 626-2282
www.geo-logic.com

REGISTERED PROFESSIONAL ENGINEER — COURTNEY A. BARRETT — C78076 — Exp. 9/30/2023 — STATE OF CALIFORNIA — 12/17/2021

REPUBLIC SERVICES

SUNSHINE CANYON LANDFILL
14747 SAN FERNANDO ROAD
SYLMAR, CA. 91342

SUNSHINE CANYON LANDFILL
SOIL BALANCE ANALYSIS
SYLMAR, CALIFORNIA

SOIL BALANCE CALCULATIONS

DWG NO. ----

PROJECT NO. SO20.1076

C:\DOCUMENTS\ALLIED-REPUBLIC\SUNSHINE CANYON LF\SOIL BALANCE INVESTIGATION\SOIL BALANCE SHEET 4.DWG December 17, 2021 - 2:17 PM BY: GLA USER

ATTACHMENT C

SUNSHINE CANYON LANDFILL

SCL-LEA

LOCAL ENFORCEMENT AGENCY

14747 San Fernando Road
Sylmar, California 91324

January 9, 2019

Raymond H. Huff, REPA, Vice President
SCS Engineers
3900 Kilroy Airport Way, Ste 100
Long Beach, CA 90806 via email

Subject: Response to Letter Submittal for Perimeter Migration Monitoring Well 205R, Sunshine Canyon Landfill, SWIS No. 19-AA-2000

Dear Mr. Huff,

On October 25, 2018, the Sunshine Canyon Landfill Local Enforcement Agency (SCL LEA) received a letter in response to increasing levels of methane identified in perimeter mitigation monitoring well 205R located at SCL. Based on the review by the SCL LEA and CalRecycle, it was determined that the justification and support for conclusions made in the report were not adequate and hence SCL LEA does not agree with the conclusions.

The SCL LEA's justification and concerns are as follows:

1. The data presented by SCS Engineers (SCS) from compliance well 205R (D) clearly indicates that the sample collected/monitored contains CH4, CO2, and trace VOC compounds - typical of landfill gas (LFG).
2. The letter did not specify whether or not SCS has performed any gas sampling and testing from the nearby oil fields to determine the nature and characteristics of the gas from it.
3. There was not an indication that SCS had taken samples from the landfill gas control system (GCCS) to determine the baseline characteristics of the LFG being generated from the landfill and compare it with gas detected from compliance well 205R(D).
4. SCS has stated (page 2), that the typical ratio of CH4 to CO2 in LFG ranges was from 1.0 to 1.2. However, gas concentrations of CH4 (19.8%) and CO2 (45.2%) detected on August 23, 2018 (Table 2) clearly indicate ratios close to what CH4/CO2 ratios are SCS has stated. There is no discussion about this specific event.
5. In addition, SCS should determine whether data from Probe 205R(D) (based on the field data presented by SCS for fixed gases and VOCs) is a variation of the concentrations due to spatial variability, (e.g. gas plume source, distance from source, gas extraction system zone of influences, etc.).
6. SCL LEA further suggests the operator (through their consultant) collect samples and perform testing from landfill gas control system as well as the oil field and then compare the results from Probe 205R(D) to these two sources. To adequately perform such a comparison, a one-year study of both sources should be conducted.

If you have questions, please feel free to contact me at (626) 430 -5540.

Sincerely,

Shikari Nakagawa-Ota, R.E.H.S
SCL LEA Program Manager

Enclosure

cc: Megan Emslander, CalRecycle (via LEA Portal)
David Thompson, SCL LEA (Electronic copy)
Jose Gutiérrez, SCL LEA (Electronic copy)
Dee Hanson-Lugo, SCL LEA (Electronic copy)
George Kashikarin, SCL LEA (Electronic copy)
Patricia Hundt, SCL LEA (Electronic copy)
Chris Coyle, SCL (Electronic copy)
Josh Mills, SCL (Electronic copy)

October 24, 2018
File No. 01208033.29

Ms. Shikari Nakagawa-Ota, REHS
Chief Environmental Health Specialist
Local Enforcement Agency (LEA) Program
Los Angeles County Department of Public Health
5050 Commerce Drive
Baldwin Park, California 91706

Subject: **Perimeter Migration Monitoring Well 205R, Sunshine Canyon Landfill, 14747 San Fernando Road, Sylmar, California 91342 (SWIS Facility 19-AA-2000)**

Dear Ms. Nakagawa-Ota:

This letter has been prepared by **SCS Engineers (SCS)** on behalf of Sunshine Canyon Landfill (SCL), in response to increasing levels of methane (CH_4) identified in perimeter migration monitoring well 205R located at SCL (Note: we refer to each monitoring location as a well, and each screened interval at a given location as a probe). While methane levels identified in the deeper probes within this well are still below the regulatory threshold of 5 percent by volume, they have been increasing in concentration over the past four years, and have slightly exceeded 3% by volume.

BACKGROUND

SCL is an open, active canyon landfill operation, with 363 permitted acres, and accepts approximately 8,000 tons of municipal solid waste (MSW) per day. SCL is situated at the eastern end of the Santa Susana Mountains and is bounded to the west and south by mountains and open space, to the north by mountains and Interstate 5, and to the east by San Fernando Road and Interstate 5. The location of SCL is provided on **Figure 1**, **Attachment A**.

Landfill gas (LFG) migration from SCL is currently controlled via an LFG collection and control system (GCCS) consisting of a network of approximately 1,008 LFG extraction points inter-connected to a total of six destruction devices, including 5 enclosed flares and a turbine power plant. The GCCS operates continuously, with August 2018 average flow rate of approximately 20,500 standard cubic feet per minute (scfm) and a methane concentration approximately 43% by volume.

LFG migration from SCL is monitored by a network of 30 migration monitoring wells located around the perimeter of SCL. Within each well, there are multiple probes located at multiple depths, based on surface elevation, depth to groundwater, and base of waste elevation; for a total of 132 probes, within 30 wells. The perimeter migration monitoring well network at SCL is provided on **Figure 2**, **Attachment A**.

DISCUSSION

Monitoring Activities

Since March 2013, concentrations of CH_4 in the deeper probes (B-E) in well P-205R have ranged from non-detect to 3.4 percent by volume (May 2018). Details on CH_4 detections within the five probes within well P-205R are presented in **Table 1**, below.

Table 1. Well P-205R Probe Methane Details

Probe Designation	Probe Depth (feet bgs)	Screened Interval (feet bgs)	Methane Detections (% by volume)		
			Min	Max	Most Recent[1]
A	11	6-11	ND	ND	ND
B	25	20-25	ND	1.5	0.7
C	39	33-39	0.2	2.0	1.8
D	53	48-53	0.8	3.4	2.8
E	67	63-67	ND	2.9	1.6

bgs = below ground surface
ND = Non-detect
[1]Most recent monitoring event is September 2018.

Graphs of gas composition and pressures detected in probes A-E within well P-205R from 2014 to present are presented in **Figures 3a through 3e, Attachment A**, respectively. **Attachment B** contains well P-205R probe data from 2014 to present.

As shown on **Figure 3d**, probe P-205R(D) has the highest concentration of CH_4 detected in this well, consistently over time. **Figure 3d** also shows significantly elevated carbon dioxide (CO_2) in relation to CH_4, which is not generally indicative of the composition of landfill gas (LFG). For example, the typical ratio of CH_4 to CO_2 in LFG ranges from 1.0 to 1.2. However, the data for probe P-205R(D) have demonstrated ratios ranging from 0.05 to 0.07 in data from 2018. **Figure 3d** also shows an inverse relationship between CO_2 and Balance Gas, which is assumed to be nitrogen. Nitrogen is typically found at concentrations 2 to 4 times lower than CO_2 in LFG, but in this case, nitrogen is present at concentrations higher than CO_2.

Gas Sample Analysis

In response to slightly elevated CH_4 concentrations identified in probe P-205R(D), gas samples were collected from select probes within well P-205R, as well as other perimeter wells at SCL in January, February, March, June, July, August, and September of 2018. A summary of the analytical data from Probe P-205(D) is presented in **Table 2**, below. Copies of all analytical data from samples collected in 2018 are provided in **Attachment C**.

Table 2. Probe P-205R(D) Analytical Results - 2018

Analyte	01/25	02/15	03/29	06/29[1]	07/26	08/23	09/27
Concentration in % by volume							
Methane	2.74	2.73	2.89	2.96	2.74	19.8	2.69
Carbon Dioxide	46.4	47.5	47.3	47.6	47.2	45.2	47.5
Concentration in parts per million by volume (ppmv)							
Ethane	<5	<5	<5	<5	<5	<5	<5
TGNMO[2]	19.5	<5	17.9	10.3	14.7	7.41	12.1
Hydrogen Sulfide	0.42	0.97	0.54	<0.2	<0.1	<0.1	<0.1
Volatile Organic Compounds (VOCs) Concentration in parts per billion by volume (ppbv)							
Benzene	7.52	6.64	5.95	3.95	5.14	5.26	4.20
Dichlorobenzenes[3]	<12	<3	<6	<0.6	3.39	3.33	3.69
Toluene	<8	2.23	<4	1.22	2.55	2.34	2.71
m+p Xylenes	<8	1.84	<4	1.01	2.53	1.89	1.57
o-Xylene	<8	<1.4	<4	0.78	<1.4	<1.4	<1.4
TO-15 Analysis (concentration in ppbv)[1]							
Acetone	NA	NA	NA	63.0	NA	NA	NA
Isopropyl Alcohol	NA	NA	NA	108	NA	NA	NA
n-Hexane	NA	NA	NA	0.85	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	0.69	NA	NA	NA

[1]TO-15 analysis requested on June sample. More analytes and lower detection limits provided.
[2]TGNMO – Total Gaseous non-Methane, non-Ethane organics reported as ppmvC.
[3]Total amount containing meta, para, and ortho isomers.
NA – Analyte not analyzed.

As shown in **Table 2**, the CH_4 and CO_2 results match what was identified from field monitoring of the probes. In addition, it should be noted that the only volatile organic compounds (VOCs) detected from probe samples are generally associated with petrogenic (e.g., hydrocarbon) sources, including benzene, toluene, xylenes, hexane, etc. Key LFG VOC indicators (e.g., vinyl chloride, freons, methylene chloride, and other halogenated compounds) were not detected in samples from P-205R, or any of the sample results provided in **Attachment C**. Ethane, which is a very common constituent in LFG, was also not found. These chemicals are commonly detected as the "leading edge" of any subsurface LFG plume, but were not found in the samples.

Nearby LFG Well Data

The closest LFG extraction wells to P-205R are CGW-915 and CGW-916, both approximately 215 feet northeast of well P-205R. These wells were installed in 2015 and have been under vacuum since installation. Gas composition and flow readings from these wells from late-July (selected to match the latest lab sample analysis date from probe P-205R[D]) and the most recent readings from these wells are presented in **Table 3**, below.

Table 3. Nearby LFG Well Measurements

Well Designation	Date of Reading	LFG Flow (scfm)	Gas Composition (% by volume)			
			CH_4	CO_2	O_2	Balance Gas
CGW-915	7/16/18	10	18.1	23.7	0.1	58.1
	10/10/18	4.2	26.1	29.5	0	44.4
CGW-916	7/24/18	1.6	27.1	30.9	0	42
	10/10/18	14.5	32.4	30.3	0	37.3

As shown in **Table 3**, both the July and October readings from the closest LFG wells to P-205 show CO_2 levels significantly lower than the levels detected in probe P-205R(D). The highest CO_2 reading from July (well CGW-916) is more than 20 percentage points lower than the CO_2 identified in the P-205R(D) sample from July (refer to **Table 2**).

Figure 4, Attachment A contains a graph of the CO_2 levels identified in the LFG extraction wells near P-205R (CGW-915 and CGW-916). As shown in **Figure 4**, With the exception of late-2017, CO2 levels from the LFG extraction wells have always been lower than the CO_2 levels identified in probe P-205R(D). This indicates that it is unlikely that the CO_2 identified in P-205R(D) originated from the landfill.

However, this point does not address the elevated CH_4 identified in probe P-205R(D), unless the CH_4 and CO_2 identified in probe P-205R(D) are interrelated. In order to verify that the CH_4 and CO_2 are interrelated, the CH_4 and CO_2 monitoring data from probe P-205R(D) were separated and re-graphed using a logarithmic scale. This graph is presented in **Figure 5, Attachment A**. As shown in **Figure 5**, variability in concentration is directly proportional for CH_4 and CO_2 within this probe, which indicates that the parameters are directly related. As such, if the CO_2 is not likely derived from LFG, then the CH_4 would not expected to be either.

Nearby Oil Wells

Due to the elevated CO_2; the lack of ethane, vinyl chloride, and other common LFG constituents in the samples analyzed from probe P-205R(D); and the presence of various petrogenic chemicals, additional research on possible petrogenic sources in the area of SCL was conducted. As shown in **Figure 2**, there are approximately 9 abandoned oil wells located either within, or in close proximity to SCL. Of these nine wells, the closest to well P-205R is Eadie #1. Records of this well obtained from the California Department of Oil, Gas and Geothermal Resources (DOGGR) are provided in **Attachment D**. A brief history this well is provided below.

Eadie #1

Exploratory oil well "Eadie 1" is located approximately 650 feet to the southwest of well P-205. Eadie 1 was drilled to a maximum depth of 8,011 feet below ground surface (bgs). Drilling was completed on November 11, 1953. Following electric logging of the hole, two concrete plugs were installed from 850 to 766 feet and 530 to 400 feet bgs. 10 feet of cement inside of an 11 and ¾ inch casing, with a welded steel plate were used to abandon the well on November 13, 1953. The capped well was at an elevation of approximately 2,132 feet above mean sea level (msl) at the time of abandonment.

In 1992, as part of the proposed expansion of SCL, eight oil wells were proposed for re-abandonment. The project was postponed until June 1997, when the upper 200 feet of Eadie #1 was overdrilled and 140 cubic feet of cement was added to the hole. Following abandonment activities, the well was cut off five feet below surface and covered with a steel plate. This would make the elevation of the top capped well approximately 2,127 feet msl and the elevation of the bottom of the cement plug approximately 1,932 feet msl, which is approximately 50 feet higher than the surface of well P-205R (surface elevation of well P-205R is 1,869 feet msl).

CONCLUSIONS

It appears that the low-level of CH_4 detected in well P-205R did not originate from the landfill. This conclusion is supported by the following observations:

1. Monitoring data for probes B-E in well P-205R show significantly elevated CO_2 (maximum value of 49.4 percent by volume in Probe P-205R[D]) associated with low-level CH_4 (maximum value of 3.4 percent by volume in Probe P-205R[D]). Laboratory data confirms both the low CH_4 and high CO_2 levels detected in probes B-E of well P-205R. These levels and ratios are not typical for LFG migration from a landfill.
2. CO_2 levels identified in probe P-205R(D) are higher than CO_2 levels identified in raw LFG from the closest LFG extraction wells (**Figure 4**).
3. The CH_4 identified in P-205R(D) is related to the elevated CO_2 identified in P-205R(D), as shown in **Figure 5** and are likely from the same source
4. With the exception of acetone and isopropyl alcohol, which are both typical lab contaminants, only petrogenic VOCs were identified in samples analyzed from P-205R(D). Other common "leading edge" contaminants in LFG were not detected.
5. There is an abandoned oil well located 650 feet to the southwest of P-205R that may be a potential source of methane and CO_2. The fact that the probes within P-205R are located at a depth that is below the concrete plug for this well, makes this point more significant.

RECOMMENDATIONS

Based on off-site impact from petrogenic sources, SCL is requesting removal of the AOC threshold of 3% by volume for probes within perimeter migration monitoring well P-205R as well as modification of sampling frequency for this probe to quarterly. Additionally, SCL is requesting the opportunity to evaluate the origin of methane should the level in the P-205R probes ever exceed the 5% by volume threshold prior to the issuance of any regulatory violations.

CLOSING

If you have any questions in regard to this submittal, please contact either of the undersigned at (562) 426-9544.

Sincerely,

Raymond H. Huff, REPA
Vice President
SCS Engineers

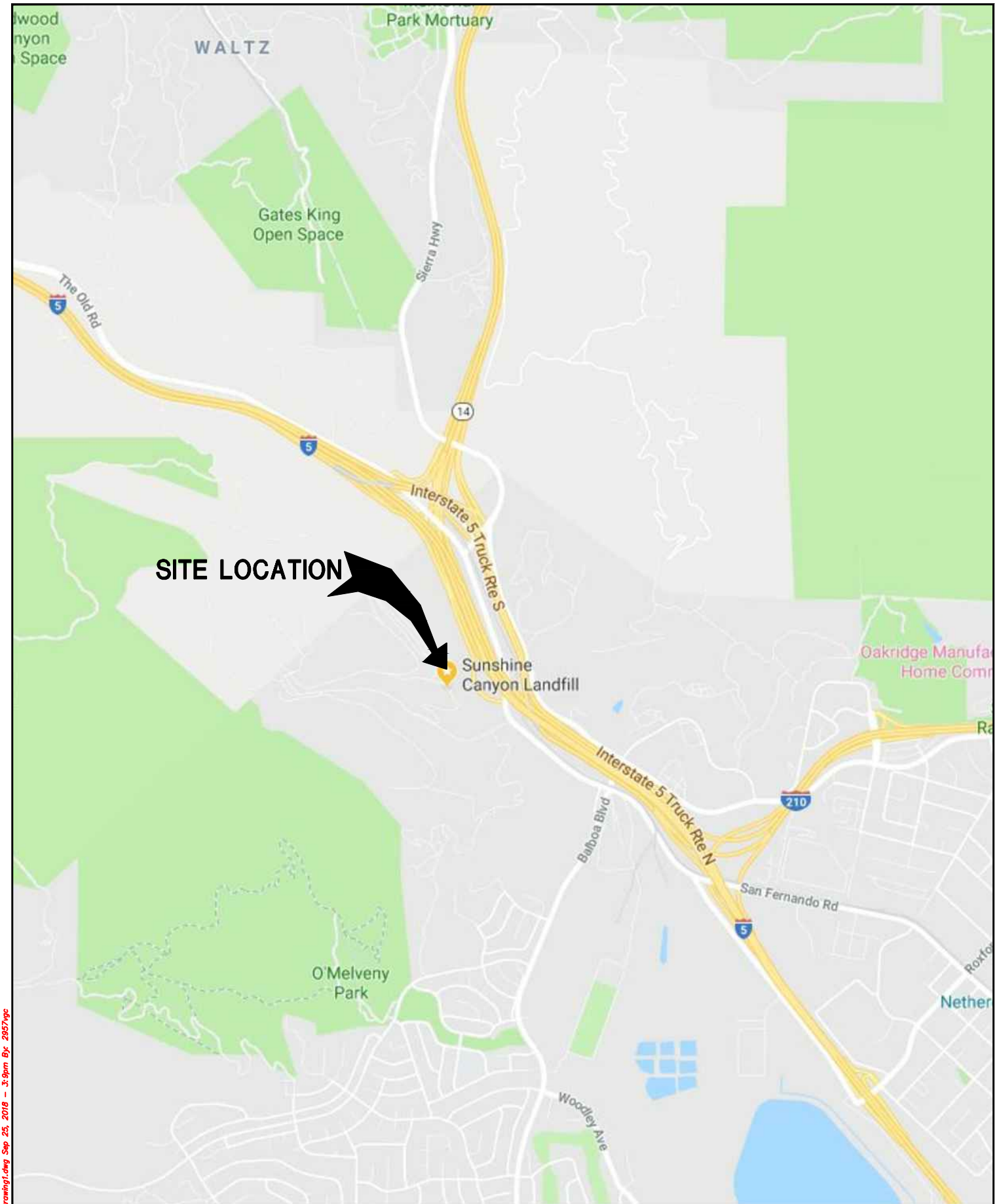
Patrick S. Sullivan, REPA, CPP, BCES
Senior Vice President
SCS Engineers

attachments

cc: Josh Mills, SCL
Chris Coyle, SCL

ATTACHMENT A

FIGURES



C:\Users\2957vgc\Documents\Drawing1.dwg Sep 25, 2018 - 3:9pm By: 2957vgc

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO.	DWN. BY:	ACAD FILE:
---	V. CHEW	---
DSN. BY:	CHK. BY:	APP. BY:
---	---	---

CLIENT:

SHEET TITLE: **SITE LOCATION**

PROJECT TITLE: **SUNSHINE CANYON LANDFILL SYLMAR, CA**

DATE: **09-25-2018**

SCALE: **N.T.S.**

DRAWING NO. **FIG 1**

Figure 2 - Perimeter Well Location Map Showing Abandoned Oil Wells

Sunshine Canyon Landfill, Sylmar, California



Figure 3a. Well P-205R(A) Readings from 2014 to Present.

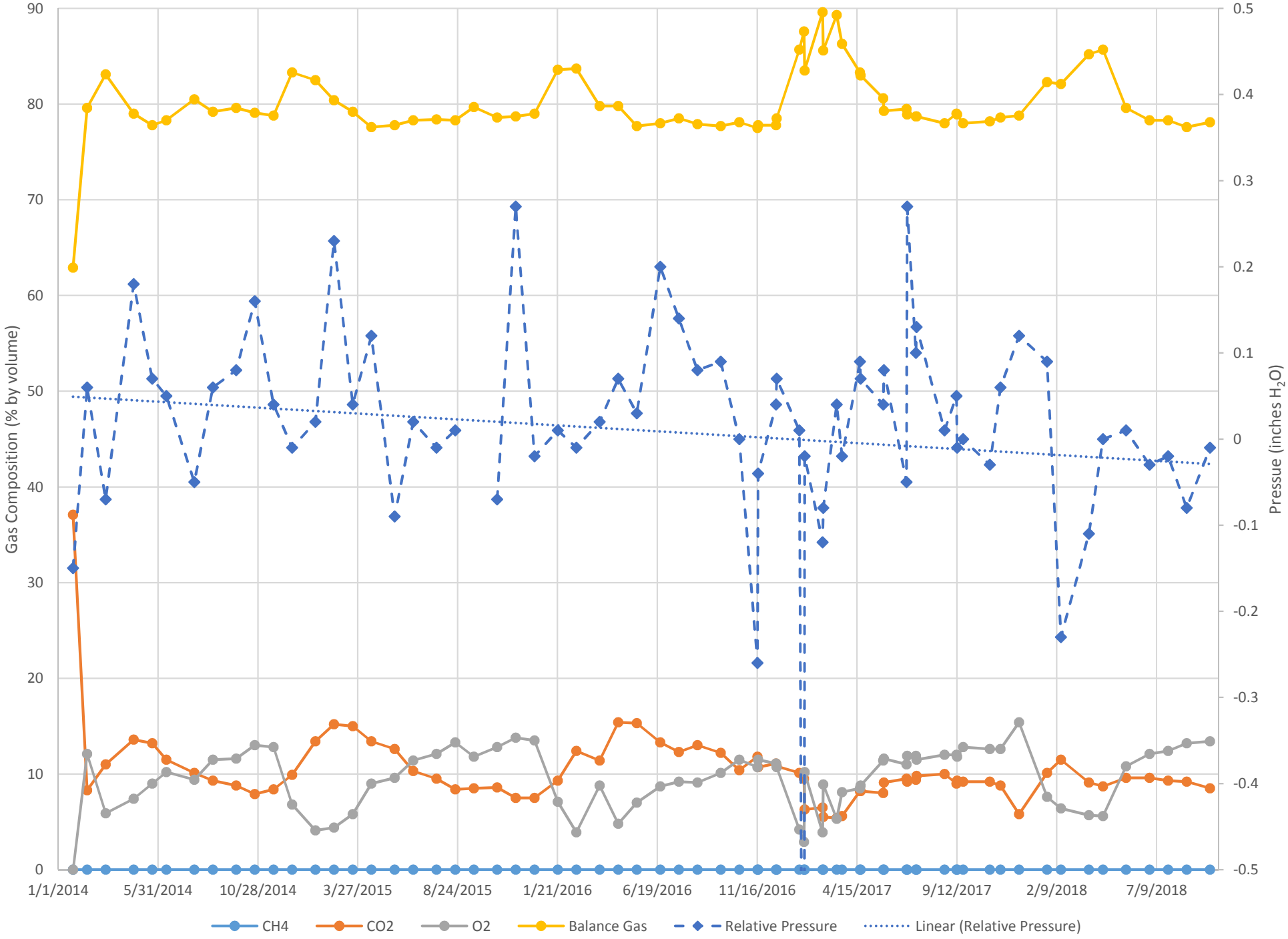


Figure 3b. Well P-205R(B) Readings from 2014 to Present.

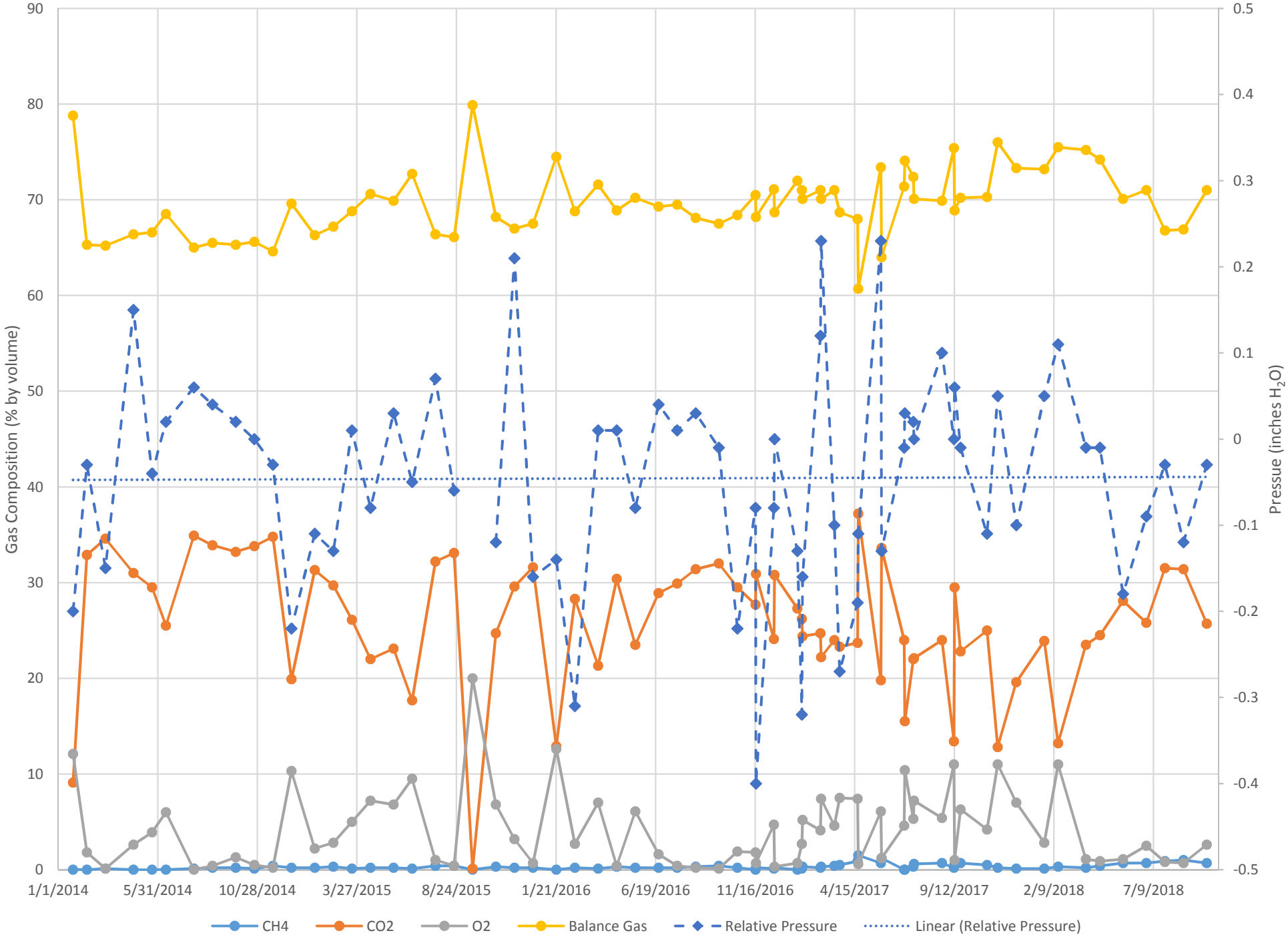


Figure 3c. Well P-205R(C) Readings from 2014 to Present.

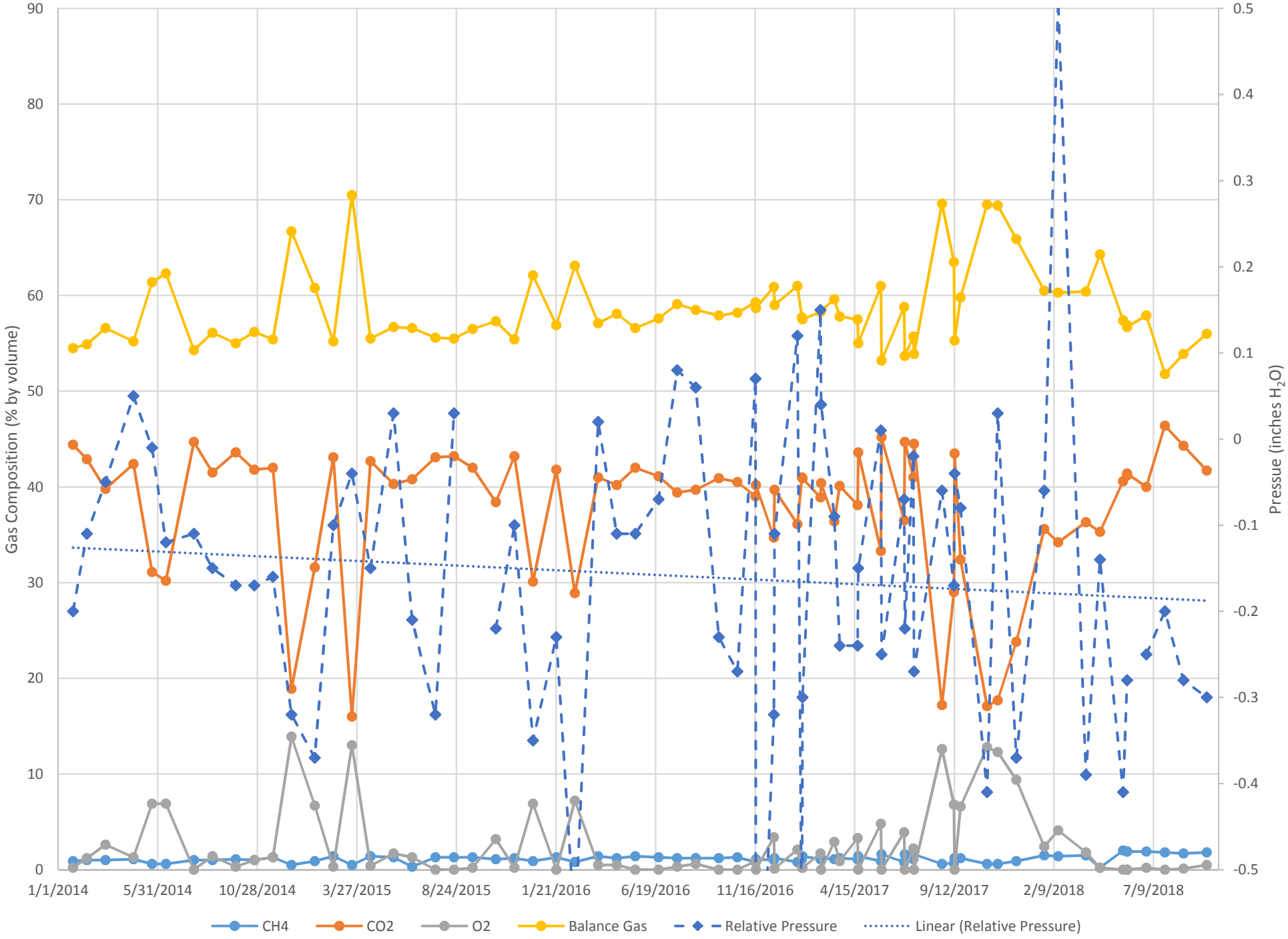


Figure 3d. Well P-205R(D) Readings from 2014 to Present.

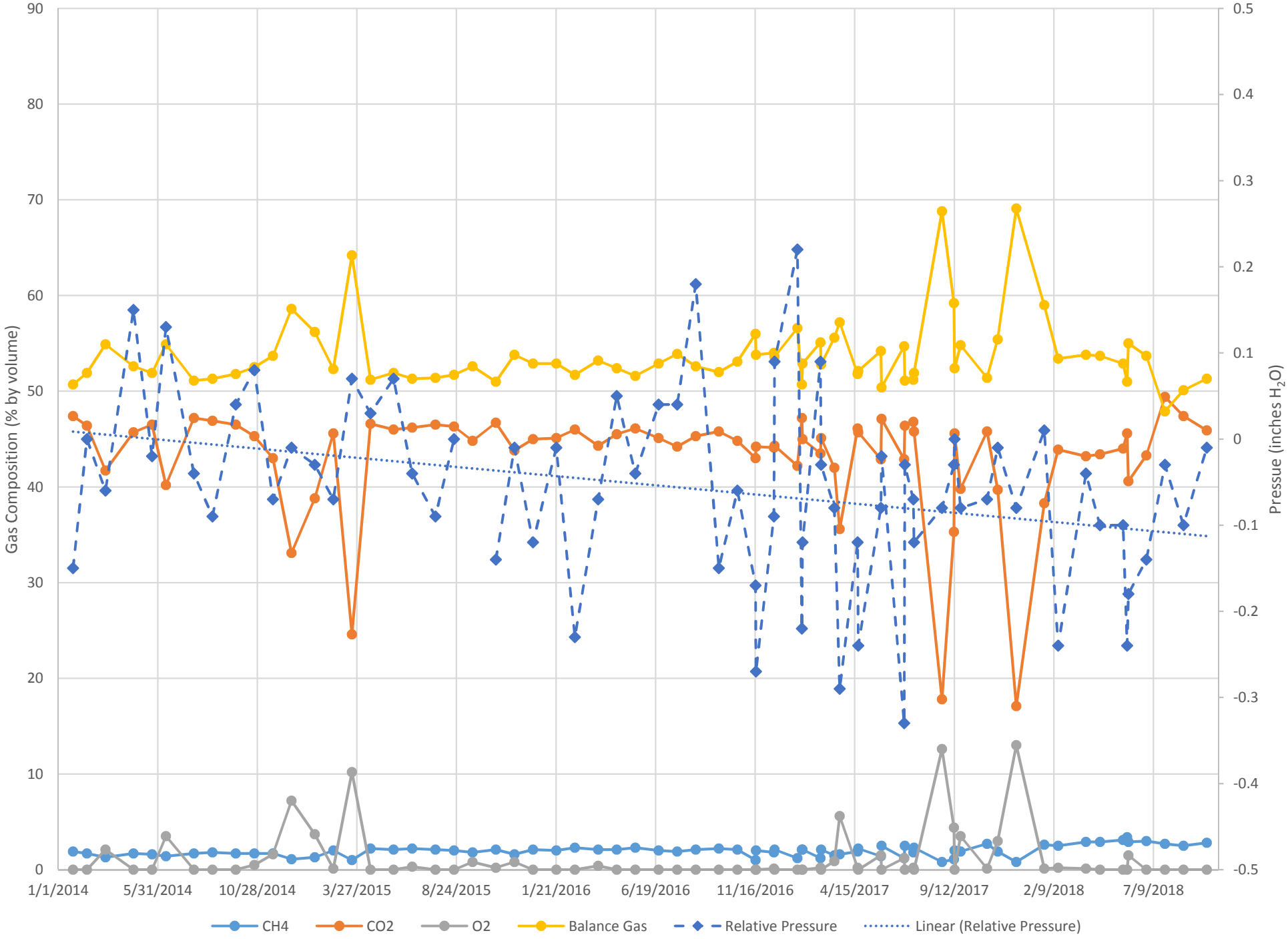


Figure 3e. Well P-205R(E) Readings from 2014 to Present.

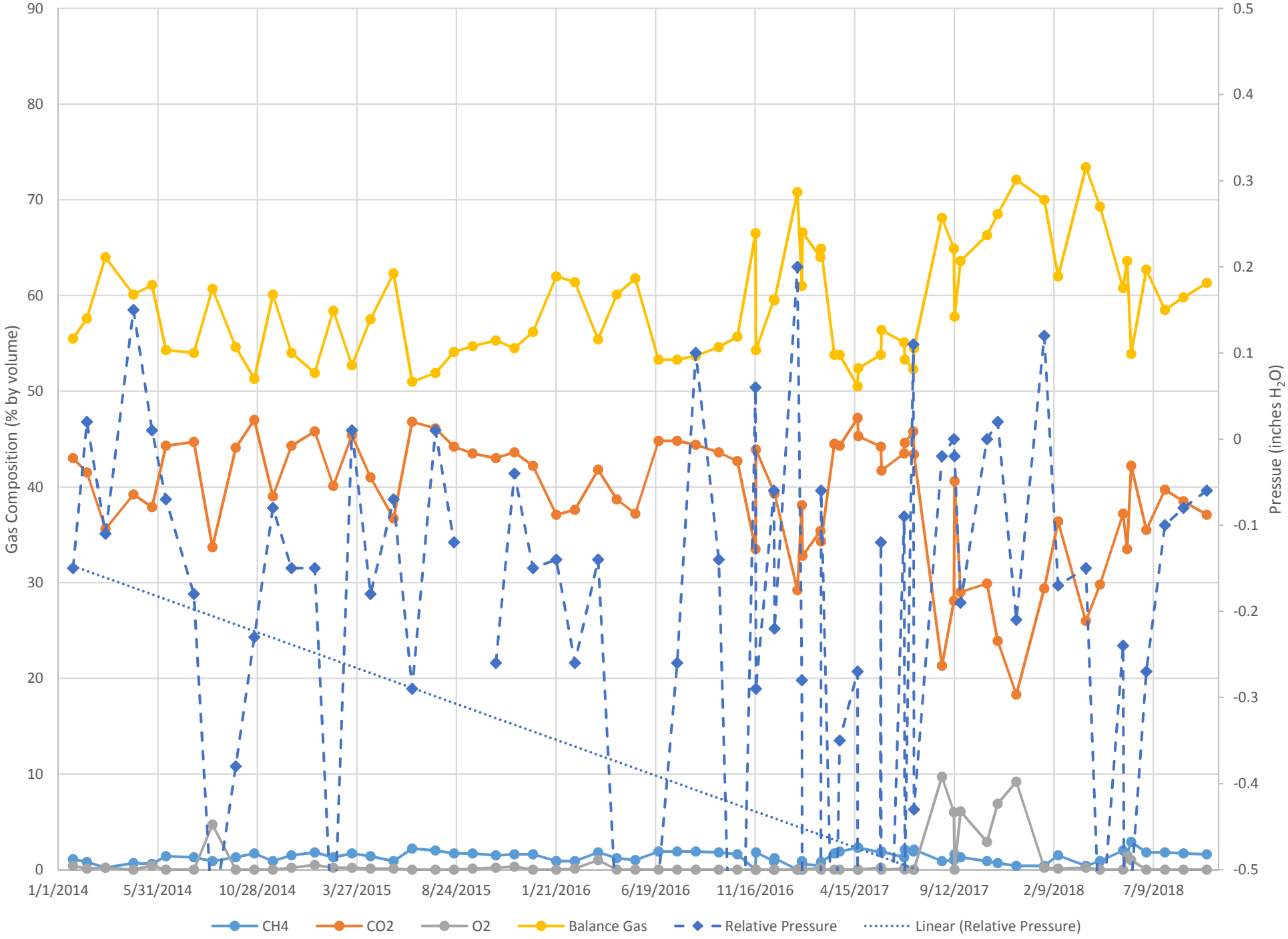


Figure 4. Carbon Dioxide Level Comparison.

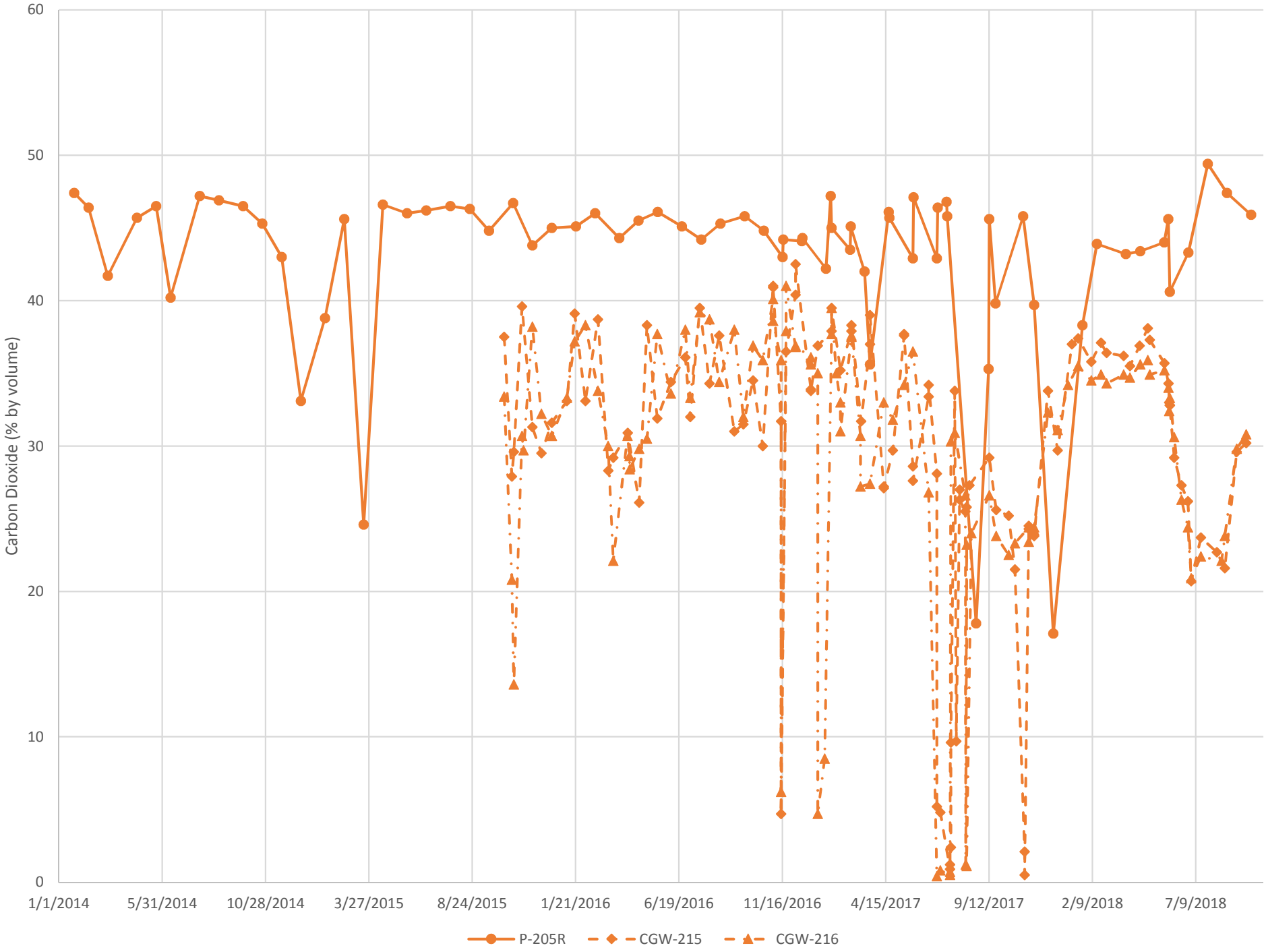
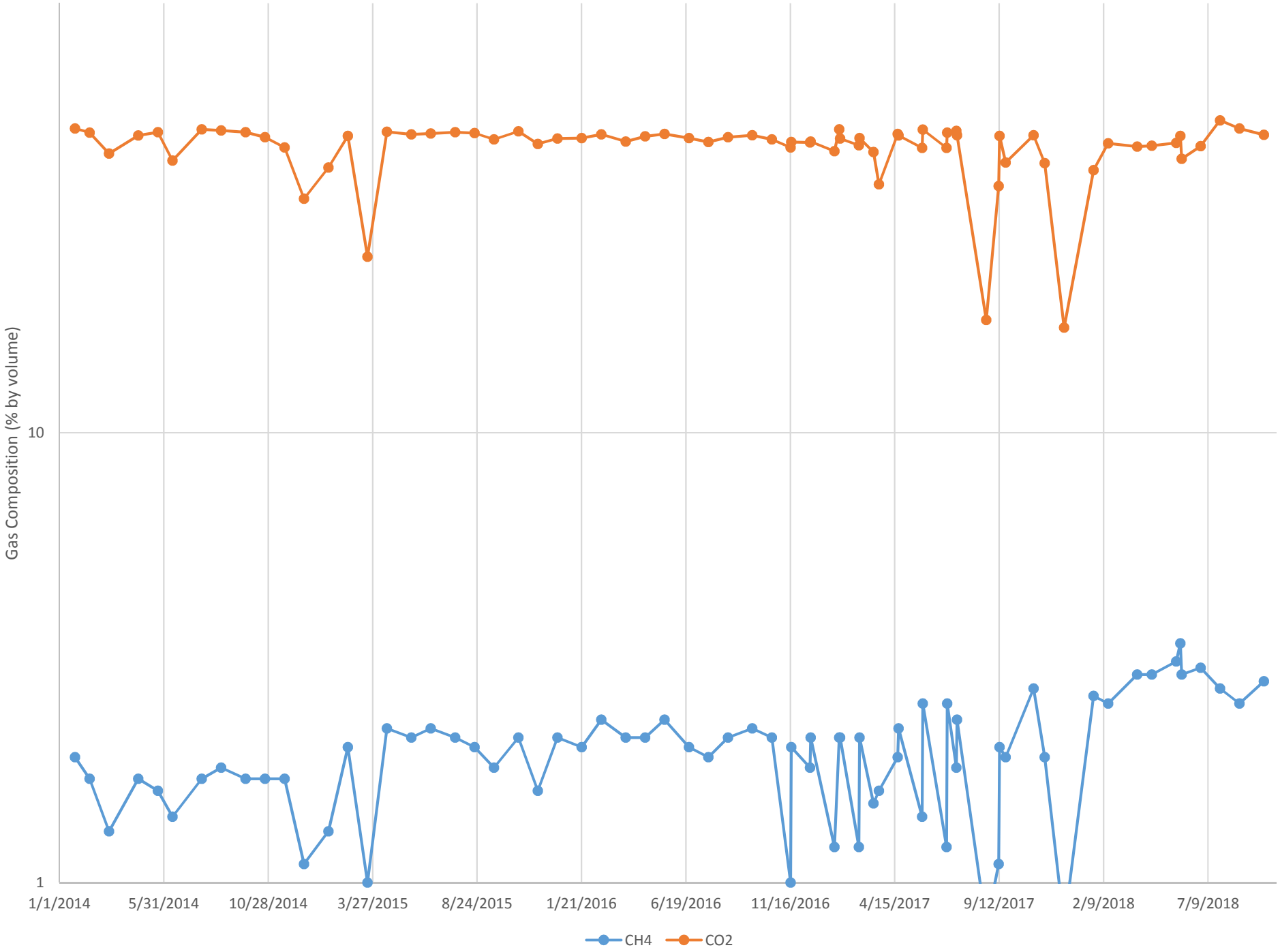


Figure 5. Well P-205R(D) Readings from 2014 to Present - Logarithmic Scale.



ATTACHMENT B

PROBE DATA

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/23/2014 9:20:00 AM	0	37.1	0	62.9	-0.15	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/13/2014 10:23:00 AM	0	8.3	12.1	79.6	0.06	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/13/2014 9:12:00 AM	0	11	5.9	83.1	-0.07	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/24/2014 9:49:00 AM	0	13.6	7.4	79	0.18	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/22/2014 9:56:00 AM	0	13.2	9	77.8	0.07	27.93	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/12/2014 9:45:00 AM	0	11.5	10.2	78.3	0.05	27.91	ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/24/2014 10:48:00 AM	0	10.1	9.4	80.5	-0.05	27.84	Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/21/2014 9:51:00 AM	0	9.3	11.5	79.2	0.06	27.92	ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/25/2014 9:51:00 AM	0	8.8	11.6	79.6	0.08	27.9	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	10/23/2014 9:50:00 AM	0	7.9	13	79.1	0.16	27.99	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/20/2014 9:49:00 AM	0	8.4	12.8	78.8	0.04	28.04	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:21 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/18/2014 10:08:00 AM	0	9.9	6.8	83.3	-0.01	28.28	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/22/2015 10:38:00 AM	0	13.4	4.1	82.5	0.02	28.33	ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/19/2015 9:55:00 AM	0	15.2	4.4	80.4	0.23	28.21	Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/19/2015 10:23:00 AM	0	15	5.8	79.2	0.04	28.13	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/16/2015 9:46:00 AM	0	13.4	9	77.6	0.12	28.15	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/21/2015 9:28:00 AM	0	12.6	9.6	77.8	-0.09	28.04	ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/18/2015 9:11:00 AM	0	10.3	11.4	78.3	0.02	28.08	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/23/2015 9:23:00 AM	0	9.5	12.1	78.4	-0.01	28.11	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/20/2015 9:34:00 AM	0	8.4	13.3	78.3	0.01	28.01	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/17/2015 10:38:00 AM	0	8.5	11.8	79.7		27.99	ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	10/22/2015 10:32:00 AM	0	8.6	12.8	78.6	-0.07	28.01	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/19/2015 9:58:00 AM	0	7.5	13.8	78.7	0.27	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/17/2015 9:38:00 AM	0	7.5	13.5	79	-0.02	28.19	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/21/2016 9:32:00 AM	0	9.3	7.1	83.6	0.01	28.22	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/18/2016 9:39:00 AM	0	12.4	3.9	83.7	-0.01	28	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/24/2016 9:58:00 AM	0	11.4	8.8	79.8	0.02	28.12	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/21/2016 9:27:00 AM	0	15.4	4.8	79.8	0.07	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/19/2016 7:51:00 AM	0	15.3	7	77.7	0.03	27.94	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/23/2016 9:14:00 AM	0	13.3	8.7	78	0.2	27.98	ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/21/2016 9:36:00 AM	0	12.3	9.2	78.5	0.14	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/18/2016 8:48:00 AM	0	13	9.1	77.9	0.08	27.91	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/22/2016 7:53:00 AM	0	12.2	10.1	77.7	0.09	27.9	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	10/20/2016 8:06:00 AM	0	10.4	11.5	78.1	0	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/16/2016 1:12:22 PM	0	11.8	10.7	77.5	-0.26	27.87			11/16/2016 2:39:49 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/17/2016 8:06:00 AM	0	10.7	11.5	77.8	-0.04	27.99	ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/14/2016 8:18:09 AM	0	11.1	11.1	77.8	0.04	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/15/2016 7:54:00 AM	0	10.8	10.7	78.5	0.07	28.01	ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/18/2017 11:46:49 AM	0	10.1	4.2	85.7	0.01	28.14	BN	BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/25/2017 8:24:17 AM	0	9.5	2.9	87.6	-1.23	28.23	BN	BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/26/2017 9:25:00 AM	0	6.3	10.2	83.5	-0.02	28.27	ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/22/2017 8:05:15 AM	0	6.5	3.9	89.6	-0.12	28.12	BN	BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/23/2017 9:17:00 AM	0	5.5	8.9	85.6	-0.08	28.03	ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/15/2017 8:08:50 AM	0	5.4	5.3	89.3	0.04	28.14	BN	BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/23/2017 8:58:00 AM	0	5.6	8.1	86.3	-0.02	28.02	ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/19/2017 8:30:57 AM	0	8.2	8.5	83.3	0.09	28.13	BS	BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/20/2017 9:21:00 AM	0	8.2	8.8	83	0.07	28.08	ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/24/2017 9:28:53 AM	0	8	11.4	80.6	0.04	27.93	BN	BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/25/2017 9:39:00 AM	0	9.1	11.6	79.3	0.08	27.84	ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/28/2017 8:48:21 AM	0	9.5	11	79.5	-0.05	27.96	BS	BS	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/29/2017 9:48:00 AM	0	9.2	11.9	78.9	0.27	27.92	ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/12/2017 9:54:03 AM	0	9.4	11.9	78.7	0.1	28.06	BS	BS	7/14/2017 11:32:40 AM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/13/2017 8:38:00 AM	0	9.8	11.5	78.7	0.13	28.01	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/24/2017 10:05:00 AM	0	10	12	78	0.01	27.87	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/11/2017 10:40:03 AM	0	9	12	79	0.05	28.05	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/12/2017 11:45:40 AM	0	9.3	11.8	78.9	-0.01	28	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/21/2017 7:48:00 AM	0	9.2	12.8	78	0	27.83	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	10/31/2017 9:18:22 AM	0	9.2	12.6	78.2	-0.03	27.9	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/16/2017 9:43:00 AM	0	8.8	12.6	78.6	0.06	27.98	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/14/2017 9:23:00 AM	0	5.8	15.4	78.8	0.12	28.04	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/25/2018 11:02:06 AM	0	10.1	7.6	82.3	0.09	28.14			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/15/2018 10:48:05 AM	0	11.5	6.4	82.1	-0.23	28.2	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/29/2018 10:01:45 AM	0	9.1	5.7	85.2	-0.11	28.17			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/19/2018 9:55:31 AM	0	8.7	5.6	85.7	0	28.06			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/24/2018 7:41:37 AM	0	9.6	10.8	79.6	0.01				5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/28/2018 7:57:14 AM	0	9.6	12.1	78.3	-0.03	28.02			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/26/2018 8:01:50 AM	0	9.3	12.4	78.3	-0.02	28.11			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/23/2018 8:07:10 AM	0	9.2	13.2	77.6	-0.08				8/23/2018 1:06:39 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/27/2018 8:02:45 AM	0	8.5	13.4	78.1	-0.01		SD	SD	9/27/2018 10:32:54 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/23/2014 9:22:00 AM	0	9.1	12.1	78.8	-0.2	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/13/2014 10:26:00 AM	0	32.9	1.8	65.3	-0.03	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/13/2014 9:15:00 AM	0.1	34.6	0.1	65.2	-0.15	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/24/2014 9:51:00 AM	0	31	2.6	66.4	0.15	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/22/2014 9:57:00 AM	0	29.5	3.9	66.6	-0.04	27.95	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/12/2014 9:47:00 AM	0	25.5	6	68.5	0.02	27.91	ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/24/2014 10:50:00 AM	0.1	34.9	0	65	0.06	27.84	Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/21/2014 9:56:00 AM	0.2	33.9	0.4	65.5	0.04	27.92	ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/25/2014 9:53:00 AM	0.2	33.2	1.3	65.3	0.02	27.94	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	10/23/2014 9:52:00 AM	0.1	33.8	0.5	65.6	0	27.99	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/20/2014 9:52:00 AM	0.4	34.8	0.2	64.6	-0.03	28.05	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:22 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/18/2014 10:10:00 AM	0.2	19.9	10.3	69.6	-0.22	28.27	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/22/2015 10:40:00 AM	0.2	31.3	2.2	66.3	-0.11	28.33	ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/19/2015 9:58:00 AM	0.3	29.7	2.8	67.2	-0.13	28.22	Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/19/2015 10:27:00 AM	0.1	26.1	5	68.8	0.01	28.13	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/16/2015 9:48:00 AM	0.2	22	7.2	70.6	-0.08	28.14	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/21/2015 9:30:00 AM	0.2	23.1	6.8	69.9	0.03	28.03	ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/18/2015 9:13:00 AM	0.1	17.7	9.5	72.7	-0.05	28.07	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/23/2015 9:26:00 AM	0.4	32.2	1	66.4	0.07	28.1	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/20/2015 9:37:00 AM	0.4	33.1	0.4	66.1	-0.06	28.02	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/17/2015 10:43:00 AM	0	0.1	20	79.9		28	ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	10/22/2015 10:33:00 AM	0.3	24.7	6.8	68.2	-0.12	28	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/19/2015 9:59:00 AM	0.2	29.6	3.2	67	0.21	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/17/2015 9:40:00 AM	0.2	31.6	0.7	67.5	-0.16	28.19	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/21/2016 9:33:00 AM	0	12.9	12.6	74.5	-0.14	28.23	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/18/2016 9:41:00 AM	0.2	28.3	2.7	68.8	-0.31	28	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/24/2016 10:00:00 AM	0.1	21.3	7	71.6	0.01	28.11	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/21/2016 9:29:00 AM	0.3	30.4	0.4	68.9	0.01	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/19/2016 7:52:00 AM	0.2	23.5	6.1	70.2	-0.08	27.93	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/23/2016 9:16:00 AM	0.2	28.9	1.6	69.3	0.04	27.98	ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/21/2016 9:39:00 AM	0.2	29.9	0.4	69.5	0.01	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/18/2016 8:50:00 AM	0.3	31.4	0.2	68.1	0.03	27.92	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/22/2016 7:56:00 AM	0.4	32	0.1	67.5	-0.01	27.91	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	10/20/2016 8:08:00 AM	0.2	29.5	1.9	68.4	-0.22	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/16/2016 1:15:27 PM	0	27.7	1.8	70.5	-0.08	27.86			11/16/2016 2:39:49 PM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/17/2016 8:08:00 AM	0.2	30.9	0.7	68.2	-0.4	27.99	ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/14/2016 8:20:30 AM	0.1	24.1	4.7	71.1	-0.08	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/15/2016 7:56:00 AM	0.2	30.8	0.3	68.7	0	28.01	ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/18/2017 11:49:40 AM	0	27.3	0.7	72	-0.13	28.13	BN	BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/25/2017 8:27:24 AM	0.1	26.2	2.7	71	-0.32	28.23	BN	BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/26/2017 9:26:00 AM	0.3	24.4	5.2	70.1	-0.16	28.27	ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/22/2017 8:07:48 AM	0.2	24.7	4.1	71	0.12	28.12	BN	BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/23/2017 9:19:00 AM	0.3	22.2	7.4	70.1	0.23	28.03	ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/15/2017 8:11:31 AM	0.4	24	4.6	71	-0.1	28.14	BN	BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/23/2017 9:01:00 AM	0.5	23.3	7.5	68.7	-0.27	28.02	ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/19/2017 8:33:34 AM	0.9	23.7	7.4	68	-0.19	28.14	BS	BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/20/2017 9:26:00 AM	1.5	37.2	0.6	60.7	-0.11	28.08	ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/24/2017 9:31:16 AM	0.7	19.8	6.1	73.4	0.23	27.95	BN	BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/25/2017 9:45:00 AM	1.2	33.6	1.2	64	-0.13	27.85	ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/28/2017 8:50:55 AM	0	24	4.6	71.4	-0.01	27.97	BS	BS	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/29/2017 9:49:00 AM	0	15.5	10.4	74.1	0.03	27.92	ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/12/2017 9:56:41 AM	0.3	22	5.3	72.4	0.02	28.06	BS	BS	7/14/2017 11:32:40 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/13/2017 8:41:00 AM	0.6	22.1	7.2	70.1	0	28.01	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/24/2017 9:59:00 AM	0.7	24	5.4	69.9	0.1	27.89	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/11/2017 10:43:03 AM	0.2	13.4	11	75.4	0	28.05	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/12/2017 11:49:28 AM	0.6	29.5	1	68.9	0.06	28.03	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/21/2017 7:50:00 AM	0.7	22.8	6.3	70.2	-0.01	27.82	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	10/31/2017 9:21:25 AM	0.5	25	4.2	70.3	-0.11	27.9	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/16/2017 9:45:00 AM	0.2	12.8	11	76	0.05	27.97	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/14/2017 9:26:00 AM	0.1	19.6	7	73.3	-0.1	28.02	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/25/2018 11:05:21 AM	0.1	23.9	2.8	73.2	0.05	28.14			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/15/2018 10:51:05 AM	0.3	13.2	11	75.5	0.11	28.21	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/29/2018 10:05:06 AM	0.2	23.5	1.1	75.2	-0.01	28.16			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/19/2018 9:59:14 AM	0.4	24.5	0.9	74.2	-0.01	28.08			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/24/2018 7:47:02 AM	0.7	28.1	1.1	70.1	-0.18	28.16			5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/28/2018 8:01:09 AM	0.7	25.8	2.5	71	-0.09	28.04			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/26/2018 8:07:42 AM	0.9	31.5	0.8	66.8	-0.03	28.1			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/23/2018 8:12:21 AM	1	31.4	0.7	66.9	-0.12	28.12			8/23/2018 1:06:39 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/27/2018 8:06:10 AM	0.7	25.7	2.6	71	-0.03	28.08	SD	SD	9/27/2018 10:32:54 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/23/2014 9:24:00 AM	0.9	44.4	0.2	54.5	-0.2	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/13/2014 10:30:00 AM	1	42.9	1.2	54.9	-0.11	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/13/2014 9:18:00 AM	1	39.8	2.6	56.6	-0.05	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/24/2014 9:57:00 AM	1.1	42.4	1.3	55.2	0.05	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/22/2014 9:59:00 AM	0.6	31.1	6.9	61.4	-0.01	27.95	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/12/2014 9:49:00 AM	0.6	30.2	6.9	62.3	-0.12	27.91	ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/24/2014 10:53:00 AM	1	44.7	0	54.3	-0.11	27.84	Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/21/2014 9:58:00 AM	1	41.5	1.4	56.1	-0.15	27.92	ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/25/2014 9:56:00 AM	1.1	43.6	0.3	55	-0.17	27.94	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	10/23/2014 9:55:00 AM	1	41.8	1	56.2	-0.17	28	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/20/2014 9:56:00 AM	1.3	42	1.3	55.4	-0.16	28.05	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:22 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/18/2014 10:13:00 AM	0.5	18.9	13.9	66.7	-0.32	28.27	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/22/2015 10:43:00 AM	0.9	31.6	6.7	60.8	-0.37	28.33	ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/19/2015 10:00:00 AM	1.4	43.1	0.3	55.2	-0.1	28.21	Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/19/2015 10:29:00 AM	0.5	16	13	70.5	-0.04	28.12	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/16/2015 9:50:00 AM	1.4	42.7	0.4	55.5	-0.15	28.14	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/21/2015 9:33:00 AM	1.3	40.3	1.7	56.7	0.03	28.04	ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/18/2015 9:16:00 AM	0.3	40.8	1.3	56.6	-0.21	28.07	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/23/2015 9:30:00 AM	1.3	43.1	0	55.6	-0.32	28.1	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/20/2015 9:40:00 AM	1.3	43.2	0	55.5	0.03	28.01	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/17/2015 10:46:00 AM	1.3	42	0.2	56.5		28	ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	10/22/2015 10:35:00 AM	1.1	38.4	3.2	57.3	-0.22	28	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/19/2015 10:02:00 AM	1.2	43.2	0.2	55.4	-0.1	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/17/2015 9:42:00 AM	0.9	30.1	6.9	62.1	-0.35	28.18	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/21/2016 9:37:00 AM	1.3	41.8	0	56.9	-0.23	28.23	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/18/2016 9:43:00 AM	0.8	28.9	7.2	63.1	-0.57	28.01	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/24/2016 10:02:00 AM	1.4	41	0.5	57.1	0.02	28.11	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/21/2016 9:36:00 AM	1.2	40.2	0.5	58.1	-0.11	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/19/2016 7:56:00 AM	1.4	42	0	56.6	-0.11	27.94	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/23/2016 9:20:00 AM	1.3	41.1	0	57.6	-0.07	27.98	ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/21/2016 9:44:00 AM	1.2	39.4	0.3	59.1	0.08	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/18/2016 8:53:00 AM	1.2	39.7	0.6	58.5	0.06	27.92	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/22/2016 7:57:00 AM	1.2	40.9	0	57.9	-0.23	27.9	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	10/20/2016 8:13:00 AM	1.3	40.5	0	58.2	-0.27	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/16/2016 1:20:31 PM	0.8	39	0.9	59.3	0.07	27.86			11/16/2016 2:39:49 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/17/2016 8:12:00 AM	1.1	40.2	0	58.7	-0.83	27.99	ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/14/2016 8:23:54 AM	1	34.7	3.4	60.9	-0.32	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/15/2016 8:02:00 AM	1.2	39.7	0.1	59	-0.11	28	ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/18/2017 11:53:21 AM	0.8	36.1	2.1	61	0.12	28.13	BN	BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/25/2017 8:32:01 AM	1.1	41	0.2	57.7	-0.62	28.24	BN	BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/26/2017 9:32:00 AM	1.4	40.9	0.2	57.5	-0.3	28.27	ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/22/2017 8:11:34 AM	1.1	38.9	1.7	58.3	0.15	28.12	BN	BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/23/2017 9:24:00 AM	1.2	40.4	0	58.4	0.04	28.03	ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/15/2017 8:14:39 AM	1.1	36.4	2.9	59.6	-0.09	28.15	BN	BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/23/2017 9:05:00 AM	1.2	40.1	0.9	57.8	-0.24	28.02	ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/19/2017 8:37:12 AM	1.1	38.1	3.3	57.5	-0.24	28.14	BS	BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/20/2017 9:28:00 AM	1.4	43.6	0	55	-0.15	28.08	ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/24/2017 9:34:35 AM	0.9	33.3	4.8	61	0.01	27.94	BN	BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/25/2017 9:50:00 AM	1.6	45.2	0	53.2	-0.25	27.85	ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/28/2017 8:54:25 AM	0.8	36.5	3.9	58.8	-0.07	27.97	BS	BS	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/29/2017 9:54:00 AM	1.6	44.7	0	53.7	-0.22	27.92	ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/12/2017 10:00:23 AM	1.1	41	2.2	55.7	-0.02	28.05	BS	BS	7/14/2017 11:32:40 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/13/2017 8:45:00 AM	1.6	44.5	0	53.9	-0.27	28.02	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/24/2017 10:06:00 AM	0.6	17.2	12.6	69.6	-0.06	27.89	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/11/2017 10:48:10 AM	0.7	29	6.8	63.5	-0.17	28.04	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/12/2017 11:52:50 AM	1.2	43.5	0	55.3	-0.04	28.02	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/21/2017 7:53:00 AM	1.2	32.4	6.6	59.8	-0.08	27.83	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	10/31/2017 9:23:04 AM	0.6	17.1	12.8	69.5	-0.41	27.89	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/16/2017 9:47:00 AM	0.6	17.7	12.3	69.4	0.03	27.97	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/14/2017 9:28:00 AM	0.9	23.8	9.4	65.9	-0.37	28.04	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/25/2018 11:09:30 AM	1.5	35.6	2.4	60.5	-0.06	28.14			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/15/2018 10:57:05 AM	1.4	34.2	4.1	60.3	0.51	28.21	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/29/2018 10:09:14 AM	1.5	36.3	1.8	60.4	-0.39	28.16			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/19/2018 10:04:37 AM	0.2	35.3	0.2	64.3	-0.14	28.08			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/24/2018 7:51:55 AM	2	40.6	0	57.4	-0.41	28.15			5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/30/2018 7:58:03 AM	1.9	41.2	0	56.9	-0.28	27.97	mq	mq	5/30/2018 3:59:32 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/30/2018 7:59:11 AM	1.9	41.4	0	56.7		27.97	mq	mq	5/30/2018 3:59:32 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/28/2018 8:06:19 AM	1.9	40	0.2	57.9	-0.25	28.04			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/26/2018 8:14:28 AM	1.8	46.4	0	51.8	-0.2	28.1			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/23/2018 8:18:39 AM	1.7	44.3	0.1	53.9	-0.28	28.13			8/23/2018 1:06:39 PM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/27/2018 8:10:25 AM	1.8	41.7	0.5	56	-0.3	28.08	SD	SD	9/27/2018 10:32:54 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/23/2014 9:27:00 AM	1.9	47.4	0	50.7	-0.15	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/13/2014 10:36:00 AM	1.7	46.4	0	51.9	0	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/13/2014 9:20:00 AM	1.3	41.7	2.1	54.9	-0.06	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/24/2014 10:00:00 AM	1.7	45.7	0	52.6	0.15	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/22/2014 10:04:00 AM	1.6	46.5	0	51.9	-0.02	27.95	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/12/2014 9:51:00 AM	1.4	40.2	3.5	54.9	0.13	27.91	ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/24/2014 10:59:00 AM	1.7	47.2	0	51.1	-0.04	27.84	Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/21/2014 10:01:00 AM	1.8	46.9	0	51.3	-0.09	27.92	ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/25/2014 10:02:00 AM	1.7	46.5	0	51.8	0.04	27.94	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	10/23/2014 9:57:00 AM	1.7	45.3	0.5	52.5	0.08	27.99	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/20/2014 9:59:00 AM	1.7	43	1.6	53.7	-0.07	28.05	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:22 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/18/2014 10:16:00 AM	1.1	33.1	7.2	58.6	-0.01	28.27	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/22/2015 10:45:00 AM	1.3	38.8	3.7	56.2	-0.03	28.33	ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/19/2015 10:05:00 AM	2	45.6	0.1	52.3	-0.07	28.21	Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/19/2015 10:33:00 AM	1	24.6	10.2	64.2	0.07	28.12	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/16/2015 9:53:00 AM	2.2	46.6	0	51.2	0.03	28.14	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/21/2015 9:37:00 AM	2.1	46	0	51.9	0.07	28.04	ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/18/2015 9:19:00 AM	2.2	46.2	0.3	51.3	-0.04	28.07	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/23/2015 9:34:00 AM	2.1	46.5	0	51.4	-0.09	28.1	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/20/2015 9:45:00 AM	2	46.3	0	51.7	0	28.01	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/17/2015 10:52:00 AM	1.8	44.8	0.8	52.6		28.01	ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	10/22/2015 10:38:00 AM	2.1	46.7	0.2	51	-0.14	28.01	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/19/2015 10:04:00 AM	1.6	43.8	0.8	53.8	-0.01	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/17/2015 9:45:00 AM	2.1	45	0	52.9	-0.12	28.19	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/21/2016 9:42:00 AM	2	45.1	0	52.9	-0.01	28.22	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/18/2016 9:47:00 AM	2.3	46	0	51.7	-0.23	28.01	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/24/2016 10:04:00 AM	2.1	44.3	0.4	53.2	-0.07	28.11	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/21/2016 9:40:00 AM	2.1	45.5	0	52.4	0.05	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/19/2016 8:00:00 AM	2.3	46.1	0	51.6	-0.04	27.93	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/23/2016 9:24:00 AM	2	45.1	0	52.9	0.04	27.98	ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/21/2016 9:48:00 AM	1.9	44.2	0	53.9	0.04	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/18/2016 8:56:00 AM	2.1	45.3	0	52.6	0.18	27.92	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/22/2016 8:01:00 AM	2.2	45.8	0	52	-0.15	27.92	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	10/20/2016 8:16:00 AM	2.1	44.8	0	53.1	-0.06	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/16/2016 1:26:52 PM	1	43	0	56	-0.17	27.86			11/16/2016 2:39:49 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/17/2016 8:16:00 AM	2	44.2	0	53.8	-0.27	27.99	ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/14/2016 8:28:22 AM	1.8	44.1	0.1	54	-0.09	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/15/2016 8:05:00 AM	2.1	44.3	0	53.6	0.09	28	ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/18/2017 11:58:06 AM	1.2	42.2	0	56.6	0.22	28.12	BN	BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/25/2017 8:37:00 AM	2.1	47.2	0	50.7	-0.22	28.24	BN	BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/26/2017 9:37:00 AM	2.1	45	0	52.9	-0.12	28.27	ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/22/2017 8:16:23 AM	1.2	43.5	0.2	55.1	0.09	28.12	BN	BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/23/2017 9:27:00 AM	2.1	45.1	0	52.8	-0.03	28.03	ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/15/2017 8:19:02 AM	1.5	42	0.9	55.6	-0.08	28.15	BN	BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/23/2017 9:07:00 AM	1.6	35.6	5.6	57.2	-0.29	28.03	ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/19/2017 8:41:50 AM	1.9	46.1	0.2	51.8	-0.12	28.13	BS	BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/20/2017 9:31:00 AM	2.2	45.7	0	52.1	-0.24	28.08	ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/24/2017 9:38:49 AM	1.4	42.9	1.5	54.2	-0.08	27.95	BN	BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/25/2017 9:54:00 AM	2.5	47.1	0	50.4	-0.02	27.85	ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/28/2017 8:59:01 AM	1.2	42.9	1.2	54.7	-0.33	27.96	BS	BS	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/29/2017 9:58:00 AM	2.5	46.4	0	51.1	-0.03	27.91	ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/12/2017 10:04:59 AM	1.8	46.8	0.2	51.2	-0.07	28.06	BS	BS	7/14/2017 11:32:40 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/13/2017 8:50:00 AM	2.3	45.8	0	51.9	-0.12	28.02	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/24/2017 10:08:00 AM	0.8	17.8	12.6	68.8	-0.08	27.89	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/11/2017 10:52:56 AM	1.1	35.3	4.4	59.2	-0.03	28.04	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/12/2017 11:56:28 AM	2	45.6	0	52.4	0	28.02	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/21/2017 7:55:00 AM	1.9	39.8	3.5	54.8	-0.08	27.83	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	10/31/2017 9:28:59 AM	2.7	45.8	0.1	51.4	-0.07	27.9	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/16/2017 9:51:00 AM	1.9	39.7	3	55.4	-0.01	27.97	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/14/2017 9:30:00 AM	0.8	17.1	13	69.1	-0.08	28.03	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/25/2018 11:15:43 AM	2.6	38.3	0.1	59	0.01	28.13			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/15/2018 11:02:05 AM	2.5	43.9	0.2	53.4	-0.24	28.21	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/29/2018 10:14:44 AM	2.9	43.2	0.1	53.8	-0.04	28.15			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/19/2018 10:09:53 AM	2.9	43.4	0	53.7	-0.1	28.08			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/24/2018 7:58:46 AM	3.1	44	0	52.9	-0.1	28.15			5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/30/2018 8:08:31 AM	3.4	45.6	0	51	-0.24	27.97	mq	mq	5/30/2018 3:59:32 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/1/2018 7:33:40 AM	2.9	40.6	1.5	55	-0.18	28.06	MQ	MQ	6/4/2018 12:37:30 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/28/2018 8:11:55 AM	3	43.3	0	53.7	-0.14	28.03			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/26/2018 8:21:40 AM	2.7	49.4	0	47.9	-0.03	28.11			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/23/2018 8:24:58 AM	2.5	47.4	0	50.1	-0.1	28.12			8/23/2018 1:06:39 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/27/2018 8:18:31 AM	2.8	45.9	0	51.3	-0.01	28.08	SD	SD	9/27/2018 10:32:54 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/23/2014 9:31:00 AM	1.1	43	0.4	55.5	-0.15	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/13/2014 10:43:00 AM	0.8	41.5	0.1	57.6	0.02	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/13/2014 9:23:00 AM	0.2	35.6	0.2	64	-0.11	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/24/2014 10:07:00 AM	0.7	39.2	0	60.1	0.15	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/22/2014 10:07:00 AM	0.6	37.9	0.4	61.1	0.01	27.95	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/12/2014 9:56:00 AM	1.4	44.3	0	54.3	-0.07	27.91	ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/24/2014 11:08:00 AM	1.3	44.7	0	54	-0.18	27.84	Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/21/2014 10:05:00 AM	0.9	33.7	4.7	60.7	-0.56	27.92	ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/25/2014 10:06:00 AM	1.3	44.1	0	54.6	-0.38	27.94	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	10/23/2014 10:01:00 AM	1.7	47	0	51.3	-0.23	27.99	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/20/2014 10:04:00 AM	0.9	39	0	60.1	-0.08	28.05	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:22 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/18/2014 10:22:00 AM	1.5	44.3	0.2	54	-0.15	28.27	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/22/2015 10:49:00 AM	1.8	45.8	0.5	51.9	-0.15	28.33	ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/19/2015 10:08:00 AM	1.3	40.1	0.2	58.4	-0.6	28.21	Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/19/2015 10:37:00 AM	1.7	45.4	0.2	52.7	0.01	28.12	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/16/2015 9:57:00 AM	1.4	41	0.1	57.5	-0.18	28.14	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/21/2015 9:41:00 AM	0.9	36.7	0.1	62.3	-0.07	28.04	ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/18/2015 9:23:00 AM	2.2	46.8	0	51	-0.29	28.08	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/23/2015 9:39:00 AM	2	46.1	0	51.9	0.01	28.1	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/20/2015 9:51:00 AM	1.7	44.2	0	54.1	-0.12	28.01	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/17/2015 10:58:00 AM	1.7	43.5	0.1	54.7		28.01	ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	10/22/2015 10:41:00 AM	1.5	43	0.2	55.3	-0.26	28	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/19/2015 10:07:00 AM	1.6	43.6	0.3	54.5	-0.04	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/17/2015 9:48:00 AM	1.6	42.2	0	56.2	-0.15	28.19	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/21/2016 9:48:00 AM	0.9	37.1	0	62	-0.14	28.22	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/18/2016 9:51:00 AM	0.9	37.6	0.1	61.4	-0.26	28	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/24/2016 10:06:00 AM	1.8	41.8	1	55.4	-0.14	28.11	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/21/2016 9:44:00 AM	1.2	38.7	0	60.1	-0.56	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/19/2016 8:04:00 AM	1	37.2	0	61.8	-0.65	27.93	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/23/2016 9:28:00 AM	1.9	44.8	0	53.3	-0.51	27.98	ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/21/2016 9:52:00 AM	1.9	44.8	0	53.3	-0.26	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/18/2016 9:01:00 AM	1.9	44.4	0	53.7	0.1	27.92	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/22/2016 8:03:00 AM	1.8	43.6	0	54.6	-0.14	27.91	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	10/20/2016 8:20:00 AM	1.6	42.7	0	55.7	-0.93	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/16/2016 1:31:55 PM	0	33.5	0	66.5	0.06	27.86			11/16/2016 2:39:49 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/17/2016 8:21:00 AM	1.8	43.9	0	54.3	-0.29	27.99	ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/14/2016 8:32:41 AM	0.9	39.5	0	59.6	-0.06	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/15/2016 8:10:00 AM	1.2	39.3	0	59.5	-0.22	28	ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/18/2017 12:02:44 PM	0	29.2	0	70.8	0.2	28.13	BN	BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/25/2017 8:41:51 AM	0.9	38.1	0	61	-0.28	28.24	BN	BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/26/2017 9:41:00 AM	0.6	32.8	0	66.6	-0.8	28.27	ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/22/2017 8:21:12 AM	0.4	35.4	0.2	64	-1.41	28.12	BN	BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/23/2017 9:32:00 AM	0.8	34.3	0	64.9	-0.06	28.03	ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/15/2017 8:23:51 AM	1.7	44.5	0	53.8	-0.7	28.15	BN	BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/23/2017 9:12:00 AM	1.9	44.3	0	53.8	-0.35	28.02	ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/19/2017 8:46:23 AM	2.3	47.2	0	50.5	-0.27	28.14	BS	BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/20/2017 9:34:00 AM	2.3	45.3	0	52.4	-11.18	28.08	ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/24/2017 9:42:52 AM	1.8	44.2	0.2	53.8	-0.12	27.94	BN	BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/25/2017 9:59:00 AM	1.9	41.7	0	56.4	-0.96	27.84	ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/28/2017 9:03:41 AM	1.3	43.5	0.1	55.1	-0.09	27.96	BS	BS	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/29/2017 10:03:00 AM	2.1	44.6	0	53.3	-0.51	27.92	ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/12/2017 10:10:07 AM	1.9	45.8	0	52.3	0.11	28.05	BS	BS	7/14/2017 11:32:40 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/13/2017 8:53:00 AM	2.1	43.4	0	54.5	-0.43	28.02	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/24/2017 10:09:00 AM	0.9	21.3	9.7	68.1	-0.02	27.89	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/11/2017 10:58:30 AM	1	28.1	6	64.9	0	28.04	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/12/2017 12:01:24 PM	1.6	40.6	0	57.8	-0.02	28.02	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/21/2017 7:58:00 AM	1.3	29	6.1	63.6	-0.19	27.83	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	10/31/2017 9:32:32 AM	0.9	29.9	2.9	66.3	0	27.9	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/16/2017 9:53:00 AM	0.7	23.9	6.9	68.5	0.02	27.97	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/14/2017 9:32:00 AM	0.4	18.3	9.2	72.1	-0.21	28.03	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/25/2018 11:20:45 AM	0.4	29.4	0.2	70	0.12	28.13			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/15/2018 11:07:04 AM	1.5	36.4	0.1	62	-0.17	28.21	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/29/2018 10:21:17 AM	0.4	26	0.2	73.4	-0.15	28.15			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/19/2018 10:15:03 AM	0.9	29.8	0	69.3	-0.59	28.08			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/24/2018 8:04:40 AM	2	37.2	0	60.8	-0.24	28.14			5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/30/2018 8:15:27 AM	1.5	33.5	1.4	63.6	-1.47	27.98	mq	mq	5/30/2018 3:59:32 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/5/2018 8:32:17 AM	2.9	42.2	1	53.9	-0.52	28.01	MQ	MQ	6/8/2018 6:39:50 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/28/2018 8:17:25 AM	1.8	35.5	0	62.7	-0.27	28.02			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/26/2018 8:28:48 AM	1.8	39.7	0	58.5	-0.1	28.1			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/23/2018 8:32:39 AM	1.7	38.5	0	59.8	-0.08	27.9			8/23/2018 1:06:39 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/27/2018 8:25:18 AM	1.6	37.1	0	61.3	-0.06	28.08	SD	SD	9/27/2018 10:32:54 AM

ATTACHMENT C

ANALYTICAL RESULTS

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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: February 2, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon LF
Project No.: 07218035.00
Date Received: January 26, 2018
Date Analyzed: January 26, 2018

	AtmAA Lab No.:	10268-1
	Sample I.D.:	Probe 205RD
Components		*(Concentration in ppmv)*
Methane		27400
Carbon dioxide		464000
Ethane		<5
TGNMO		19.5
Hydrogen sulfide		0.42
		(Concentration in ppbv)
Benzene		7.52
Benzyl chloride		<8
Chlorobenzene		<8
Dichlorobenzenes*		<12
1,1-dichloroethane		<10
1,2-dichloroethane		<10
1,1-dichloroethylene		<10
Dichloromethane		<10
1,2-dibromoethane		<6
Perchloroethylene		<6
Carbon tetrachloride		<8
Toluene		<8
1,1,1-trichloroethane		<6
Trichloroethene		<6
Chloroform		<8
Vinyl chloride		<8
m+p-xylenes		<8
o-xylene		<8

Methane, ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.
Ethane is reported as ppmvC.
TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Sunshine Canyon LF
Date Received: January 26, 2018
Date Analyzed: January 26, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	Probe 205RD	27500	27400	27400	0.18
Ethane	Probe 205RD	<5	<5	---	---
TGNMO	Probe 205RD	18.9	20.1	19.5	3.1
Hydrogen sulfide	Probe 205RD	0.39	0.44	0.42	6.0
		(Concentration in ppbv)			
Benzene	Probe 205RD	7.99	7.05	7.52	6.2
Benzyl chloride	Probe 205RD	<8	<8	---	---
Chlorobenzene	Probe 205RD	<8	<8	---	---
Dichlorobenzenes	Probe 205RD	<12	<12	---	---
1,1-dichloroethane	Probe 205RD	<10	<10	---	---
1,2-dichloroethane	Probe 205RD	<10	<10	---	---
1,1-dichloroethylene	Probe 205RD	<10	<10	---	---
Dichloromethane	Probe 205RD	<10	<10	---	---
1,2-dibromoethane	Probe 205RD	<6	<6	---	---
Perchloroethene	Probe 205RD	<6	<6	---	---
Carbon tetrachloride	Probe 205RD	<8	<8	---	---
Toluene	Probe 205RD	<8	<8	---	---
1,1,1-trichloroethane	Probe 205RD	<6	<6	---	---
Trichloroethene	Probe 205RD	<6	<6	---	---
Chloroform	Probe 205RD	<8	<8	---	---
Vinyl chloride	Probe 205RD	<8	<8	---	---
m+p-xylenes	Probe 205RD	<8	<8	---	---
o-xylene	Probe 205RD	<8	<8	---	---

One Tedlar bag sample, laboratory number 10268-1, was analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 4 repeat measurements from one Tedlar bag sample is 3.9%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

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TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED:
☐ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00

PROJECT MANAGER: RAY AL AYASS

PROJECT NAME: SUNSHINE CANYON

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR CA

SAMPLER NAME AND SIGNATURE: A ROMO

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC (EPA METHOD 25)		TAC (TABLE 1)	H2S	CH4	CO2	ETHANE	TGNMO	LAB USE ONLY
	PROBE 205R D	AIR	1-25-18 @ 16:15 HRS	TEDLAR 10 L	NONE		X		X	X	X	X	X	X	102681

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY:	TIME:	COMPANY:	TIME:	COMPANY:	TIME:	COMPANY:	TIME:
	1-26-18						1/26/18 09:55

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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: March 2, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00 Task 1
Date Received: February 16, 2018
Date Analyzed: February 16, 2018

AtmAA Lab No.:	10478-28	10478-29	10478-30	10478-31	10478-32
	P-240E	P-205R-C	P-205R-D	P-205R-E	P-218-B
Components	*(Concentration in ppmv)*				
Methane	76000	20200	27300	16700	1180
Carbon dioxide	2400	442000	475000	384000	346000
Ethane	1230	<5	<5	<5	<5
TGNMO	265	<5	<5	<5	<5
Hydrogen sulfide	<0.2	<0.2	0.97	1.26	<0.2
	(Concentration in ppbv)				
Benzene	5.04	6.45	6.64	1.94	1.06
Benzyl chloride	<1.4	<1.4	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4	<1.4	<1.4
Dichlorobenzenes*	<3	<3	<3	<3	<3
1,1-dichloroethane	<1.4	<1.4	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4	<1.4	<1.4
Dichloromethane	<3	<3	<3	<3	<3
1,2-dibromoethane	<1	<1	<1	<1	<1
Perchloroethylene	<1	<1	<1	<1	35.7
Carbon tetrachloride	<1.4	<1.4	<1.4	<1.4	<1.4
Toluene	<1.4	<1.4	2.23	1.65	<1.4
1,1,1-trichloroethane	<1	<1	<1	<1	<1
Trichloroethene	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	1.06
Vinyl chloride	<1	<1	<1	<1	<1
m+p-xylenes	<1.4	1.47	1.84	<1.4	<1.4
o-xylene	<1.4	<1.4	<1.4	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C.
Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/ total combustion analysis (FID/TCA) Method 25.
Ethane is reported as ppmvC.
TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: February 16, 2018
Date Analyzed: February 16, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	P-240E	75800	76100	76000	0.20
Ethane	P-240E	1230	1230	1230	0.0
TGNMO	P-240E	265	265	265	0.0
Hydrogen sulfide	P-240E	<0.2	<0.2	---	---
	P-205R-C	<0.2	<0.2	---	---
	P-205R-D	1.00	0.94	0.97	3.1
	P-205R-E	1.22	1.31	1.26	3.6
	P-218-B	<0.2	<0.2	---	---
		(Concentration in ppbv)			
Benzene	P-240E	5.01	5.07	5.04	0.60
Benzyl chloride	P-240E	<1.4	<1.4	---	---
Chlorobenzene	P-240E	<1.4	<1.4	---	---
Dichlorobenzenes	P-240E	<3	<3	---	---
1,1-dichloroethane	P-240E	<1.4	<1.4	---	---
1,2-dichloroethane	P-240E	<1.4	<1.4	---	---
1,1-dichloroethylene	P-240E	<1.4	<1.4	---	---
Dichloromethane	P-240E	<3	<3	---	---
1,2-dibromoethane	P-240E	<1	<1	---	---
Perchloroethene	P-240E	<1	<1	---	---
Carbon tetrachloride	P-240E	<1.4	<1.4	---	---
Toluene	P-240E	<1.4	<1.4	---	---
1,1,1-trichloroethane	P-240E	<1	<1	---	---
Trichloroethene	P-240E	<1	<1	---	---
Chloroform	P-240E	<1	<1	---	---



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Project Location: Sunshine Canyon
Date Received: February 16, 2018
Date Analyzed: February 16, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
Vinyl chloride	P-240E	<1	<1	---	---
m+p-xylenes	P-240E	<1.4	<1.4	---	---
o-xylene	P-240E	<1.4	<1.4	---	---

Five Tedlar bag samples, laboratory numbers 10478-(28-32), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 6 repeat measurements from five Tedlar bag samples is 1.2%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

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Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED:
☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218D35.00 TASK 01

PROJECT MANAGER: RAY AL AYASS

PROJECT NAME: SUNSHINE CANYON

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR CA

SAMPLER NAME AND SIGNATURE:

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC (EPA METHOD 25)	TAC (TABLE 1)	H_2S	CH_4	CO_2	ETHANE	TOANMD	LAB USE ONLY
	P-240E	LFG	2-15-18 12:45 pm	1 OL TEDLAR	NONE	10478 - 28	X	X	X	X	X	X	X	
	P-205R-C	LFG	2-15-18 1300 PM	1 OL TEDLAR	NONE	-29	X	X	X	X	X	X	X	
	P-205R-D	LFG	2-15-18 1315 PM	1 OL TEDLAR	NONE	-30	X	X	X	X	X	X	X	
	P-205R-E	LFG	2-15-18 1330 PM	1 OL TEDLAR	NONE	-31	X	X	X	X	X	X	X	
	P-218-B	LFG	2-15-18 1345 pm	1 OL TEDLAR	NONE	-32	X	X	X	X	X	X	X	

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS-FS	TIME: 2/16/18	COMPANY:	TIME: 10:30	COMPANY:	TIME:	COMPANY:	TIME: 10:30

FORM NO. 107 REV. 3/14 TWIN CONCEPTS

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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: April 11, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon LF
Project No.: 07218035.00 Task 01
Date Received: March 30, 2018
Date Analyzed: March 30, 2018

AtmAA Lab No.:	10888-13	10898-14
Sample I.D.:	Probe 205R-C	Probe 205R-D
Components	*(Concentration in ppmv)*	
Methane	16000	28900
Carbon dioxide	389000	473000
Ethane	<5	<5
TGNMO	17.9	17.9
Hydrogen sulfide	<0.1	0.54
	(Concentration in ppbv)	
Benzene	5.56	5.95
Benzyl chloride	<4	<4
Chlorobenzene	<4	<4
Dichlorobenzenes*	<6	<6
1,1-dichloroethane	<4	<4
1,2-dichloroethane	<4	<4
1,1-dichloroethylene	<4	<4
Dichloromethane	<4	<4
1,2-dibromoethane	<3	<3
Perchloroethylene	<3	<3
Carbon tetrachloride	<4	<4
Toluene	<4	<4
1,1,1-trichloroethane	<3	<3
Trichloroethene	<3	<3
Chloroform	<3	<3
Vinyl chloride	<3	<3
m+p-xylenes	<4	<4
o-xylene	<4	<4

Methane, ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.
Ethane is reported as ppmvC.
TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Sunshine Canyon LF
Date Received: March 30, 2018
Date Analyzed: March 30, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	Probe 205R-C	16200	15900	16000	0.93
Ethane	Probe 205R-C	<5	<5	---	---
TGNMO	Probe 205R-C	17.3	18.5	17.9	3.4
Hydrogen sulfide	Probe 205R-C	<0.1	<0.1	---	---
	Probe 205R-D	0.53	0.55	0.54	1.8
		(Concentration in ppbv)			
Benzene	Probe 205R-C	5.64	5.48	5.56	1.4
Benzyl chloride	Probe 205R-C	<4	<4	---	---
Chlorobenzene	Probe 205R-C	<4	<4	---	---
Dichlorobenzenes	Probe 205R-C	<6	<6	---	---
1,1-dichloroethane	Probe 205R-C	<4	<4	---	---
1,2-dichloroethane	Probe 205R-C	<4	<4	---	---
1,1-dichloroethylene	Probe 205R-C	<4	<4	---	---
Dichloromethane	Probe 205R-C	<4	<4	---	---
1,2-dibromoethane	Probe 205R-C	<3	<3	---	---
Perchloroethene	Probe 205R-C	<3	<3	---	---
Carbon tetrachloride	Probe 205R-C	<4	<4	---	---
Toluene	Probe 205R-C	<4	<4	---	---
1,1,1-trichloroethane	Probe 205R-C	<3	<3	---	---
Trichloroethene	Probe 205R-C	<3	<3	---	---
Chloroform	Probe 205R-C	<3	<3	---	---
Vinyl chloride	Probe 205R-C	<3	<3	---	---
m+p-xylenes	Probe 205R-C	<4	<4	---	---
o-xylene	Probe 205R-C	<4	<4	---	---

Two Tedlar bag samples, laboratory numbers 10898-(13 & 14), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 4 repeat measurements from two Tedlar bag samples is 1.9%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

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TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: ☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00 TASK 01

PROJECT MANAGER: RAY ALAYASS

PROJECT NAME: SUNSHINE CYN

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR CA.

SAMPLER NAME AND SIGNATURE:

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	TNMC	H2S	CH4	CO2	ETHANE	TO-15 MOD			LAB USE ONLY
	P205R-C	LFG	3-29-18 1330 PM	1oL TEDLAR	NONE	10898-13	X	X	X	X	X	X	X			
	P205R-D	LFG	3-29-18 1345 PM	1oL TEDLAR	NONE	14	X	X	X	X	X	X	X			

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS-FS	TIME:	COMPANY: DCS	TIME: 10	COMPANY:	TIME:	COMPANY:	TIME:

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environmental consultants
laboratory services
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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: July 6, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: June 29, 2018
Date Analyzed: June 29, 2018

AtmAA Lab No.:	11808-1	11808-2	11808-3
	P-205RC	P-205RD	P-205RE
Components	*(Concentration in ppmv)*		
Methane	19700	29600	19200
Carbon dioxide	445000	476000	398000
Ethane	<5	<5	<5
TGNMO	14.2	10.3	9.50
Hydrogen sulfide	<0.2	<0.2	1.93
	(Concentration in ppbv)		
Benzene	3.82	3.95	1.38
Benzyl chloride	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4
Dichlorobenzenes*	<3	<3	<3
1,1-dichloroethane	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4
Dichloromethane	<2	<2	<2
1,2-dibromoethane	<1	<1	<1
Perchloroethylene	<1	<1	<1
Carbon tetrachloride	<1.4	<1.4	<1.4
Toluene	<1.4	<1.4	<1.4
1,1,1-trichloroethane	<1	<1	<1
Trichloroethene	<1	<1	<1
Chloroform	<1	<1	<1
Vinyl chloride	<1	<1	<1
m+p-xylenes	1.47	<1.4	<1.4
o-xylene	<1.4	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C. Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/ total combustion analysis (FID/TCA) Method 25.

Ethane is reported as ppmvC.

TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.

** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: June 29, 2018
Date Analyzed: June 29, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	P-205RC	19600	19800	19700	0.51
Ethane	P-205RC	<5	<5	---	---
TGNMO	P-205RC	14.2	14.3	14.2	0.35
Hydrogen sulfide	P-205RE	1.91	1.95	0.97	3.1
		(Concentration in ppbv)			
Benzene	P-205RC	3.70	3.95	3.82	3.3
Benzyl chloride	P-205RC	<1.4	<1.4	---	---
Chlorobenzene	P-205RC	<1.4	<1.4	---	---
Dichlorobenzenes	P-205RC	<3	<3	---	---
1,1-dichloroethane	P-205RC	<1.4	<1.4	---	---
1,2-dichloroethane	P-205RC	<1.4	<1.4	---	---
1,1-dichloroethylene	P-205RC	<1.4	<1.4	---	---
Dichloromethane	P-205RC	<2	<2	---	---
1,2-dibromoethane	P-205RC	<1	<1	---	---
Perchloroethene	P-205RC	<1	<1	---	---
Carbon tetrachloride	P-205RC	<1.4	<1.4	---	---
Toluene	P-205RC	<1.4	<1.4	---	---
1,1,1-trichloroethane	P-205RC	<1	<1	---	---
Trichloroethene	P-205RC	<1	<1	---	---
Chloroform	P-205RC	<1	<1	---	---
Vinyl chloride	P-205RC	<1	<1	---	---
m+p-xylenes	P-205RC	<1.4	1.47	---	---
o-xylene	P-205RC	<1.4	<1.4	---	---

Three Tedlar bag samples, laboratory numbers 11808-(1-3), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 4 repeat measurements from two Tedlar bag samples is 1.8%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED:
☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00

PROJECT MANAGER: RAY AL AYASS

PROJECT NAME: SUNSHINE CANYON

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR, CA

SAMPLER NAME AND SIGNATURE:

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	TAC	H_2S	CH_4	CO_2	ETHANE	TGNMOC			LAB USE ONLY
180090-1	PROBE 205RC	AIR	06-28-18 13:07	10L TEDLAR	NONE		X	X	X	X	X	X	X			
-2																
-2	PROBE 205RD	AIR	06-28-18 13:30	10L TEDLAR	NONE		X	X	X	X	X	X	X			
-3	PROBE 205RE	AIR	06-28-18 13:40	10L TEDLAR	NONE		X	X	X	X	X	X	X			

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS	TIME: 1000	COMPANY: OS	TIME:	COMPANY:	TIME:	COMPANY:	TIME: 11:00

6/29/18

FORM NO. 107 REV. 3/14 TWIN CONCEPTS

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LABORATORY ANALYSIS REPORT

TO-15 Component Analysis in Probe Tedlar Bag Samples, by GC/MS

environmental consultants
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Report Date: July 12, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: June 29, 2018
Date Analyzed: June 29, 2018

AtmAA Lab No.:	11808-1	11808-2	11808-3
Sample ID:	Probe 205RC	Probe 205RD	Probe 205RE
Components	*(Concentations in ppbv)*		
Freon 12	<0.6	<0.6	<0.6
Chloromethane	<0.8	<0.8	<0.8
Freon 114	<0.6	<0.6	<0.6
Vinyl Chloride	<0.6	<0.6	<0.6
1,3-Butadiene	<0.8	<0.8	<0.8
Bromomethane	<0.8	<0.8	<0.8
Chloroethane	<0.6	<0.6	<0.6
Bromoethene	<0.8	<0.8	<0.8
Acetone	61.6	63.0	108
Freon 11	<0.6	<0.6	<0.6
Isopropyl Alcohol	78.6	108	133
1,1-Dichloroethene	<0.8	<0.8	<0.8
Methylene Chloride	<0.8	<0.8	<0.8
3-Chloro-1-Propene	<0.8	<0.8	<0.8
Carbon Disulfide	<0.6	<0.6	<0.6
Freon 113	<0.6	<0.6	<0.6
trans-1,2-Dichloroethene	<0.8	<0.8	<0.8
1,1-Dichloroethane	<0.8	<0.8	<0.8
MTBE	<0.8	<0.8	<0.8
Vinyl Acetate	<1	<1	<1
2-Butanone	<2	<2	<2
cis-1,2-Dichloroethene	<0.8	<0.8	<0.8
n-Hexane	0.94	0.85	<0.8
Chloroform	<0.6	<0.6	<0.6
Ethyl Acetate	<0.8	<0.8	<0.8
Tetrahydrofuran	<0.8	<0.8	<0.8
1,2-Dichloroethane	<0.8	<0.8	<0.8
1,1,1-Trichloroethane	<0.6	<0.6	<0.6
Benzene	3.82	3.95	1.38
Carbon Tetrachloride	<0.6	<0.6	<0.6
Cyclohexane	<0.8	<0.8	<0.8
1,2-Dichloropropane	<0.8	<0.8	<0.8
Bromodichloromethane	<0.8	<0.8	<0.8
Trichloroethene	<0.6	<0.6	<0.6
1,4-Dioxane	<0.8	<0.8	<0.8
2,2,4-Trimethyl Pentane	<0.8	<0.8	<0.8
n-Heptane	<0.8	<0.8	<0.8
cis-1,3-Dichloropropene	<0.8	<0.8	<0.8
4-Methyl-2-pentanone	<0.8	<0.8	<0.8
trans-1,3-Dichloropropene	<0.8	<0.8	<0.8
1,1-2-Trichloroethane	<0.8	<0.8	<0.8
Toluene	0.98	1.22	1.06
2-Hexanone	<0.8	<0.8	<0.8
Dibromochloromethane	<0.6	<0.6	<0.6
1,2-Dibromomethane	<0.6	<0.6	<0.6
Tetrachloroethene	<0.6	<0.6	<0.6
Chlorobenzene	<0.8	<0.8	<0.8
Ethylbenzene	<0.6	<0.6	<0.6
m,p-Xylene	1.36	1.01	1.20
Bromoform	<0.6	<0.6	<0.6
Styrene	<0.6	<0.6	<0.6
1,1,2,2-Tetrachloroethane	<0.6	<0.6	<0.6
o-Xylene	1.18	0.78	1.01
Benzyl Chloride	<0.8	<0.8	<0.8
4-Ethyl Toluene	<0.6	<0.6	<0.6
1,3,5-Trimethyl Benzene	<0.6	<0.6	<0.6
1,2,4-Trimethyl Benzene	0.67	0.69	0.65
1,3-Dichlorobenzene	<0.6	<0.6	<0.6
1,4-Dichlorobenzene	<0.6	<0.6	<0.6
1,2-Dichlorobenzene	<0.6	<0.6	<0.6
1,2,4-Trichlorobenzene	<0.8	<0.8	<0.8
Hexachlorobutadiene	<0.6	<0.6	<0.6

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: June 29, 2018
Date Analyzed: June 29, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
Freon-12	Probe 205RC	<0.6	<0.6	---	---
Chloromethane	Probe 205RC	<0.8	<0.8	---	---
Freon 114	Probe 205RC	<0.6	<0.6	---	---
Vinyl Chloride	Probe 205RC	<0.6	<0.6	---	---
1,3-Butadiene	Probe 205RC	<0.8	<0.8	---	---
Bromomethane	Probe 205RC	<0.8	<0.8	---	---
Chloroethane	Probe 205RC	<0.6	<0.6	---	---
Bromoethene	Probe 205RC	<0.8	<0.8	---	---
Acetone	Probe 205RC	56.1	67.2	61.6	9.0
Freon 11	Probe 205RC	<0.6	<0.6	---	---
Isopropyl Alcohol	Probe 205RC	73.8	83.5	78.6	6.2
1,1-Dichloroethene	Probe 205RC	<0.8	<0.8	---	---
Methylene Chloride	Probe 205RC	<0.8	<0.8	---	---
3-Chloro-1-Propene	Probe 205RC	<0.8	<0.8	---	---
Carbon Disulfide	Probe 205RC	<0.6	<0.6	---	---
Freon 113	Probe 205RC	<0.6	<0.6	---	---
trans-1,2-Dichloroethene	Probe 205RC	<0.8	<0.8	---	---
1,1-Dichloroethane	Probe 205RC	<0.8	<0.8	---	---
MTBE	Probe 205RC	<0.8	<0.8	---	---
Vinyl Acetate	Probe 205RC	<1	<1	---	---
2-Butanone	Probe 205RC	<2	<2	---	---

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
cis-1,2-Dichloroethene	Probe 205RC	<0.8	<0.8	---	---
n-Hexane	Probe 205RC	0.85	1.02	0.94	9.1
Chloroform	Probe 205RC	<0.6	<0.6	---	---
Ethyl Acetate	Probe 205RC	<0.8	<0.8	---	---
Tetrahydrofuran	Probe 205RC	<0.8	<0.8	---	---
1,2-Dichloroethane	Probe 205RC	<0.8	<0.8	---	---
1,1,1-Trichloroethane	Probe 205RC	<0.6	<0.6	---	---
Benzene	Probe 205RC	3.70	3.95	3.82	3.3
Carbon Tetrachloride	Probe 205RC	<0.6	<0.6	---	---
Cyclohexane	Probe 205RC	<0.8	<0.8	---	---
1,2-Dichloropropane	Probe 205RC	<0.8	<0.8	---	---
Bromodichloromethane	Probe 205RC	<0.8	<0.8	---	---
Trichloroethene	Probe 205RC	<0.6	<0.6	---	---
1,4-Dioxane	Probe 205RC	<0.8	<0.8	---	---
2,2,4-Trimethyl Pentane	Probe 205RC	<0.8	<0.8	---	---
n-Heptane	Probe 205RC	<0.8	<0.8	---	---
cis-1,3-Dichloropropene	Probe 205RC	<0.8	<0.8	---	---
4-Methyl-2-pentanone	Probe 205RC	<0.8	<0.8	---	---
trans-1,3-Dichloropropene	Probe 205RC	<0.8	<0.8	---	---
1,1-2-Trichloroethane	Probe 205RC	<0.8	<0.8	---	---
Toluene	Probe 205RC	0.96	1.01	0.98	2.5
2-Hexanone	Probe 205RC	<0.8	<0.8	---	---

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
Dibromochloromethane	Probe 205RC	<0.6	<0.6	---	---
1,2-Dibromomethane	Probe 205RC	<0.6	<0.6	---	---
Tetrachloroethene	Probe 205RC	<0.6	<0.6	---	---
Chlorobenzene	Probe 205RC	<0.8	<0.8	---	---
Ethylbenzene	Probe 205RC	<0.6	<0.6	---	---
m,p-Xylene	Probe 205RC	1.24	1.47	1.36	8.5
Bromoform	Probe 205RC	<0.6	<0.6	---	---
Styrene	Probe 205RC	<0.6	<0.6	---	---
1,1,2,2-Tetrachloroethane	Probe 205RC	<0.6	<0.6	---	---
o-Xylene	Probe 205RC	1.20	1.15	1.18	2.1
Benzyl Chloride	Probe 205RC	<0.8	<0.8	---	---
4-Ethyl Toluene	Probe 205RC	<0.6	<0.6	---	---
1,3,5-Trimethyl Benzene	Probe 205RC	<0.6	<0.6	---	---
1,2,4-Trimethyl Benzene	Probe 205RC	0.69	0.65	0.67	3.0
1,3-Dichlorobenzene	Probe 205RC	<0.6	<0.6	---	---
1,4-Dichlorobenzene	Probe 205RC	<0.6	<0.6	---	---
1,2-Dichlorobenzene	Probe 205RC	<0.6	<0.6	---	---
1,2,4-Trichlorobenzene	Probe 205RC	<0.8	<0.8	---	---
Hexachlorobutadiene	Probe 205RC	<0.6	<0.6	---	---

Three Tedlar bag samples, laboratory numbers 11808-(1-3), were analyzed for TO-15 components y GC/MS. Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 8 repeat measurements from the three Tedlar bag samples is 5.5%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: ☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00

PROJECT MANAGER: RAY AL AYASS

PROJECT NAME: SUNSHINE CANYON

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR, CA

SAMPLER NAME AND SIGNATURE:

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	TOC	TAC	H2S	CH4	CO2	ETHANE	TGNMOC			LAB USE ONLY
118090 -1	PROBE 205RC	AIR	06-28-18 13:07	10L TEDLAR	NONE		X	X	X	X	X	X	X			
-2	PROBE 205RD	AIR	06-28-18 13:30	10 L TEDLAR	NONE		X	X	X	X	X	X	X			
-3	PROBE 205RE	AIR	06-28-18 13:40	10 L TEDLAR	NONE		X	X	X	X	X	X	X			

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS	TIME: 1000	COMPANY: DS	TIME: 1000	COMPANY:	TIME:	COMPANY: AfmAA	TIME: 11:00 6/29/18

FORM NO. 107 REV. 3/14 TWIN CONCEPTS

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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: August 6, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: July 27, 2018
Date Analyzed: July 27-30, 2018

AtmAA Lab No.:	12088-10	12088-11	12088-12	12088-13
	P-205R-C	P-205R-D	P-205R-E	P-220B-B
Components	*(Concentration in ppmv)*			
Methane	19500	27400	18800	74.1
Carbon dioxide	446000	472000	387000	90600
Ethane	<5	<5	<5	<1
TGNMO	14.2	14.7	12.2	6.01
Hydrogen sulfide	<0.1	<0.1	1.26	<0.1
	(Concentration in ppbv)			
Benzene	5.42	5.14	1.82	<1
Benzyl chloride	<1.4	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4	<1.4
Dichlorobenzenes*	3.69	3.39	3.36	<3
1,1-dichloroethane	<1.4	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4	<1.4
Dichloromethane	<2	<2	<2	<2
1,2-dibromoethane	<1	<1	<1	<1
Perchloroethylene	<1	<1	<1	2.39
Carbon tetrachloride	<1.4	<1.4	<1.4	<1.4
Toluene	2.58	2.55	2.23	1.40
1,1,1-trichloroethane	<1	<1	<1	<1
Trichloroethene	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1
Vinyl chloride	<1	<1	<1	<1
m+p-xylenes	3.09	2.53	3.00	<1.4
o-xylene	1.62	<1.4	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C.
Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/ total combustion analysis (FID/TCA) Method 25.
Ethane is reported as ppmvC.
TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: July 27, 2018
Date Analyzed: July 27-30, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	P-205R-C	19600	19400	19500	0.51
Ethane	P-205R-C	<5	<5	---	---
TGNMO	P-205R-C	14.0	14.4	14.2	1.4
Hydrogen sulfide	P-205R-C	<0.1	<0.1	---	---
	P-205R-E	1.23	1.30	1.26	2.8
	P-220B-B	<0.1	<0.1	---	---
		(Concentration in ppbv)			
Benzene	P-205R-C	5.51	5.32	5.42	1.8
Benzyl chloride	P-205R-C	<1.4	<1.4	---	---
Chlorobenzene	P-205R-C	<1.4	<1.4	---	---
Dichlorobenzenes	P-205R-C	3.59	3.79	3.69	2.7
1,1-dichloroethane	P-205R-C	<1.4	<1.4	---	---
1,2-dichloroethane	P-205R-C	<1.4	<1.4	---	---
1,1-dichloroethylene	P-205R-C	<1.4	<1.4	---	---
Dichloromethane	P-205R-C	<2	<2	---	---
1,2-dibromoethane	P-205R-C	<1	<1	---	---
Perchloroethene	P-205R-C	<1	<1	---	---
Carbon tetrachloride	P-205R-C	<1.4	<1.4	---	---
Toluene	P-205R-C	2.28	2.87	2.58	11
1,1,1-trichloroethane	P-205R-C	<1	<1	---	---
Trichloroethene	P-205R-C	<1	<1	---	---
Chloroform	P-205R-C	<1	<1	---	---
Vinyl chloride	P-205R-C	<1	<1	---	---
m+p-xylenes	P-205R-C	3.23	2.95	3.09	4.5
o-xylene	P-205R-C	1.84	1.40	1.62	14

Four Tedlar bag samples, laboratory numbers 12088-(10-13), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 8 repeat measurements from four Tedlar bag samples is 4.8%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED:
☑ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00

PROJECT MANAGER: Ray Al Ayass

PROJECT NAME: Sunshine Canyon

W.O. / S.O. #:

PROJECT LOCATION: Sylmar, CA

SAMPLER NAME AND SIGNATURE: Saulo DIAZ -

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	TAC	H_2S	CH_4	CO_2	Ethane	TGNMO			LAB USE ONLY
	Probe 205R-C	AIR	07/26/18 @ 1400 HRS	10L TEDLAR	NONE		X	X	X	X	X	X	X			12058-10
	Probe 205R-D	AIR	07/26/18 @ 1415 HRS	10L TEDLAR	NONE		X	X	X	X	X	X	X			-11
	Probe 205R-E	AIR	07/26/18 @ 1425 HRS	10L TEDLAR	NONE		X	X	X	X	X	X	X			-12
	Probe 220B-B	AIR	07/26/18 @ 1500 HRS	10L TEDLAR	NONE		X	X	X	X	X	X	X			-13

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS	TIME: 1000	COMPANY:	TIME:	COMPANY:	TIME:	COMPANY: Atmaa	TIME:

FORM NO. 107 REV. 3/14 TWIN CONCEPTS

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250
environmental consultants
laboratory services
atmaa.com

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: September 4, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: August 24, 2018
Date Analyzed: August 24, 2018

AtmAA Lab No.:	12368-3	12368-4	12368-5	12368-6
	P-205R-B	P-205R-C	P-205R-D	P-205R-E
Components	*(Concentration in ppmv)*			
Methane	11600	19800	27200	19400
Carbon dioxide	313000	452000	474000	392000
Ethane	<5	<5	<5	<1
TGNMO	7.51	7.97	7.41	7.44
Hydrogen sulfide	0.17	<0.1	<0.1	1.05
	(Concentration in ppbv)			
Benzene	3.35	5.95	5.26	2.94
Benzyl chloride	<1.4	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4	<1.4
Dichlorobenzenes*	3.54	<3	3.33	3.79
1,1-dichloroethane	<1.4	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4	<1.4
Dichloromethane	<2	<2	<2	<2
1,2-dibromoethane	<1	<1	<1	<1
Perchloroethylene	<1	<1	<1	<1
Carbon tetrachloride	<1.4	<1.4	<1.4	<1.4
Toluene	2.66	1.91	2.34	2.02
1,1,1-trichloroethane	<1	<1	<1	<1
Trichloroethene	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1
Vinyl chloride	<1	<1	<1	<1
m+p-xylenes	2.70	1.75	1.89	1.82
o-xylene	1.66	1.43	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C.
Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/ total combustion analysis (FID/TCA) Method 25.
Ethane is reported as ppmvC.
TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.
** total amount containing meta, para, and ortho isomers*

Brian W. Eung
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: August 24, 2018
Date Analyzed: August 24, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	P-205R-B	11600	11600	11600	0.0
Ethane	P-205R-B	<5	<5	---	---
TGNMO	P-205R-B	7.79	7.23	7.51	3.7
Hydrogen sulfide	P-205R-B	0.17	0.17	0.17	0.0
	P-205R-C	<0.1	<0.1	---	---
	P-205R-D	<0.1	<0.1	---	---
	P-205R-E	1.06	1.04	1.05	0.95
		(Concentration in ppbv)			
Benzene	P-205R-B	3.51	3.19	3.35	4.8
Benzyl chloride	P-205R-B	<1.4	<1.4	---	---
Chlorobenzene	P-205R-B	<1.4	<1.4	---	---
Dichlorobenzenes	P-205R-B	3.36	3.73	3.54	5.2
1,1-dichloroethane	P-205R-B	<1.4	<1.4	---	---
1,2-dichloroethane	P-205R-B	<1.4	<1.4	---	---
1,1-dichloroethylene	P-205R-B	<1.4	<1.4	---	---
Dichloromethane	P-205R-B	<2	<2	---	---
1,2-dibromoethane	P-205R-B	<1	<1	---	---
Perchloroethene	P-205R-B	<1	<1	---	---
Carbon tetrachloride	P-205R-B	<1.4	<1.4	---	---
Toluene	P-205R-B	2.50	2.81	2.66	5.8
1,1,1-trichloroethane	P-205R-B	<1	<1	---	---
Trichloroethene	P-205R-B	<1	<1	---	---
Chloroform	P-205R-B	<1	<1	---	---
Vinyl chloride	P-205R-B	<1	<1	---	---
m+p-xylenes	P-205R-B	2.49	2.90	2.70	7.6
o-xylene	P-205R-B	1.57	1.75	1.66	5.4

Four Tedlar bag samples, laboratory numbers 12368-(3-6), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 9 repeat measurements from four Tedlar bag samples is 3.7%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: ☑ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00

PROJECT MANAGER: Ray Al Ayass

PROJECT NAME: Sunshine Canyon

W.O. / S.O. #:

PROJECT LOCATION: Sylmar, CA

SAMPLER NAME AND SIGNATURE: Saulo Diaz - [signature]

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	TAC	H_2S	CH_4	CO_2	Ethane	TGNMO			LAB USE ONLY
12368-3	Probe 205R-B	AIR	08/23/18@ 1400	1 OL TEDLAR	NONE		X	X	X	X	X	X	X			
-4	Probe 205R-C	AIR	08/23/18@ 1410	1 OL TEDLAR	NONE		X	X	X	X	X	X	X			
-5	Probe 205R-D	AIR	08/23/18@ 1420	1 OL TEDLAR	NONE		X	X	X	X	X	X	X			
-6	Probe 205R-E	AIR	08/23/18@ 1430	1 OL TEDLAR	NONE		X	X	X	X	X	X	X			

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
[signature]	8-24-18	[signature]	8-24-18			[signature]	8/24/18
COMPANY:	TIME:	COMPANY:	TIME: 1010	COMPANY:	TIME:	COMPANY:	TIME:

FORM NO. 107 REV. 3/14 TWIN CONCEPTS

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250
environmental consultants
laboratory services
atmaa.com

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: October 11, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: September 28, 2018
Date Analyzed: September 28 & 29, 2018

AtmAA Lab No.:	12718-8	12718-9	12718-10
	P 205R-C	P 205R-D	P 205R-E
Components	*(Concentration in ppmv)*		
Methane	19000	26900	16500
Carbon dioxide	442000	475000	374000
Ethane	<5	<5	<5
TGNMO	12.0	12.1	8.58
Hydrogen sulfide	<0.1	<0.1	1.38
	(Concentration in ppbv)		
Benzene	3.92	4.20	1.75
Benzyl chloride	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4
Dichlorobenzenes*	2.90	3.69	3.56
1,1-dichloroethane	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4
Dichloromethane	<2	<2	<2
1,2-dibromoethane	<1	<1	<1
Perchloroethylene	<1	<1	<1
Carbon tetrachloride	<1.4	<1.4	<1.4
Toluene	1.99	2.71	2.34
1,1,1-trichloroethane	<1	<1	<1
Trichloroethene	<1	<1	<1
Chloroform	<1	<1	<1
Vinyl chloride	<1	<1	<1
m+p-xylenes	1.52	1.57	<1.4
o-xylene	<1.4	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C. Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/ total combustion analysis (FID/TCA) Method 25.

Ethane is reported as ppmvC.

TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.

** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: September 28, 2018
Date Analyzed: September 28 & 29, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	P 205R-C	19000	19000	19000	0.0
Ethane	P 205R-C	<5	<5	---	---
TGNMO	P 205R-C	11.9	12.1	12.0	0.83
Hydrogen sulfide	P 205R-C	<0.1	<0.1	---	---
	P 205R-E	1.36	1.39	1.38	1.1
		(Concentration in ppbv)			
Benzene	P 205R-C	3.88	3.95	3.92	0.89
Benzyl chloride	P 205R-C	<1.4	<1.4	---	---
Chlorobenzene	P 205R-C	<1.4	<1.4	---	---
Dichlorobenzenes	P 205R-C	2.90	2.90	2.90	0.0
1,1-dichloroethane	P 205R-C	<1.4	<1.4	---	---
1,2-dichloroethane	P 205R-C	<1.4	<1.4	---	---
1,1-dichloroethylene	P 205R-C	<1.4	<1.4	---	---
Dichloromethane	P 205R-C	<2	<2	---	---
1,2-dibromoethane	P 205R-C	<1	<1	---	---
Perchloroethene	P 205R-C	<1	<1	---	---
Carbon tetrachloride	P 205R-C	<1.4	<1.4	---	---
Toluene	P 205R-C	2.02	1.96	1.99	1.5
1,1,1-trichloroethane	P 205R-C	<1	<1	---	---
Trichloroethene	P 205R-C	<1	<1	---	---
Chloroform	P 205R-C	<1	<1	---	---
Vinyl chloride	P 205R-C	<1	<1	---	---
m+p-xylenes	P 205R-C	1.52	1.52	1.52	0.0
o-xylene	P 205R-C	<1.4	<1.4	---	---

Three Tedlar bag samples, laboratory numbers 12718-(8-10), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 7 repeat measurements from two Tedlar bag samples is 0.62%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES: 3

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: ☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00

PROJECT MANAGER: RAY AL AYASS

PROJECT NAME: SUNSHINE CANYON LANDFILL

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR, CA

SAMPLER NAME AND SIGNATURE:

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	TAC	H2S	CH4	CO2	ETHANE	TNMOC			LAB USE ONLY
12718 -8	PROBE 205R-C	AIR	9-27-18 @ 13:05 HRS	10 L TEDLAR	NONE		X	X	X	X	X	X	X			
-9																
-10	PROBE 205R-D	AIR	9-27-18 @ 13:15 HRS	10 L TEDLAR	NONE		X	X	X	X	X	X	X			
	PROBE 205R-E	AIR	9-27-18 @ 13:20 HRS	10 L TEDLAR	NONE		X	X	X	X	X	X	X			

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS	TIME: 1017	COMPANY:	TIME: 1012	COMPANY:	TIME:	COMPANY:	TIME: 1152

FORM NO. 107 REV. 3/14 TWIN CONCEPTS

ATTACHMENT D

DOGGR WELL RECORDS

PROPERTY/WELL TRANSFER OR ACQUISTION

TEXACO E. & P. INC. – T1600

TO

CHEVRONTEXACO EXPL. & PROD., CO. – C5680

TRANSFER EFFECTIVE AUGUST 22, 2002

CHEVRONTEXACO EXPL. & PROD., CO. – C5680

TO

CHEVRON U.S.A. INC. – C5640

TRANSFER EFFECTIVE JULY 11, 2005

ESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF WELL PLUGGING AND RE-ABANDONMENT

Ventura, California

July 8, 1997

Cheryl S. Grayson
Grayson Services, Inc.
4004 S. Enos Lane
Bakersfield, CA 93312

Your report of the plugging and re-abandonment of well Texaco, Inc. "Eadie" 1,

A.P.I. No. 037-06077, Section 23, T. 3N, R. 16W, SBB.& M.,

---------- field, Los Angeles County,

dated June 23, 1997, received June 25, 1997, has been examined in conjunction with records filed in this office. We have determined that all of the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and the filing of well records.

William F. Guerard, Jr
State Oil and Gas Supervisor

By _____
Patrick J. Kinnear
Deputy Supervisor

tkc

cc: Update

Modified OG159 (4/94)

OPERATOR Texaco
WELL NO. "Eadie" 1
MAP

A.P.I. 037-06077
SECTION 23, T. 3 N, R. 16 W

INTENTION	Suppl Abd.	Suppl Abd.	Suppl Abd.			
NOTICE DATED	—	9-16-93	6-2-97			
P-REPORT NUMBER	292.06F	293.349	[illegible]			
CHECKED BY/DATE						
MAP LETTER DATED						
SYMBOL			NDD *			

	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED
NOTICE	3-6-92		9-20-93		6-11-97							
HISTORY					6-25-97							
SUMMARY												
E-LOG												
MUD LOG												
DIPMETER												
DIRECTIONAL												
CORE/SWS												
CBL												

ENGINEERING CHECK

T-REPORTS			✓			
OPERATOR'S NAME			✓			
WELL NO.			✓			
LOC & ELEV			✓			
SIGNATURE			OK ✓			
SURFACE INSP.						
DRILL CARD						
RECORD'S COMPLETE			SF			

FINAL LETTER OK
MAILED
RELEASED BOND

INJECTION BOOK
IDLE WELL LIST
SURFACE INSP. CARD

REMARKS: * COORDINATES NOT COMPATABLE WITH MAP GRID.

OK TO RELEASE FROM CONFIDENTIAL
ABANDONED-REMOVED FROM E.D.P.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. T297-129

Report on Operations

Cheryl S. Grayson
GRAYSON SERVICES, INC.
4004 S. Enos Lane
Bakersfield, CA 93312

Ventura, California
July 8, 1997

Texaco, Inc.

Your operations at well "Eadie" 1, API No. 037-06077, Sec. 23, T. 3N, R. 16W, S.B. B.&M. ---------- Field, in Los Angeles County, were witnessed on 6-10-97. Steve Mulqueen, representative of the supervisor, was present from 1000 to 1200. There were also present Bob Grayson, Jr.

Present condition of well: 11 3/4" cem 500'. TD 8011'. Plugged w/ cem 850'-766', 530'-400' & 200'-5'.

The operations were performed for the purpose of re-abandonment.

DECISION:

The plugging operations as witnessed and reported are approved.

tkc

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____

Patrick J. Kinnear
Deputy Supervisor

OG109 (Modified 1993)

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CEMENTING/PLUGGING MEMO

5 T129

Texaco, Inc.

Operator GRAYSON SERVICES, INC. Well No. "Eddie" 1

API No. 037 - 06077 Sec. 23, T. 3N, R. 16W, SB B&M

Field —, County LOS ANGELES. On 6 - 10 - 97,

Mr. ~~Mrs.~~ STEVE MULQUEEN, representative of the supervisor, was present from 1000 to 1200.

There were also present BOB GRAYSON, JR.

Casing record of well: 11 3/4" cem 500'. TD 8011. Plugged w/ cem 850' - 766', 530' - 400' & 200' - 5'.

The operations were performed for the purpose of RE- ABANDONMENT

☐ The plugging/cementing operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ _____' are approved.

Hole size: _____" fr. _____' to _____'; _____" to _____' & _____" to _____'

Casing				Cemented			Top of Fill		Squeezed Away	Final Press.	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Casing/tubing recovered: _____" shot/cut at _____', _____', _____' pulled fr. _____';

_____" shot/cut at _____', _____', _____' pulled fr. _____'.

Junk (in hole): _____

Hole fluid (bailed to) at _____'. Witnessed by _____

Mudding	Date	bbls.	Displaced	Poured	Fill	Engr.
CLAY GEL (OLD THICK MUD)	6-9-97	—			CIRCULATED TO SURFACE	SPM

CLEAN OUT TO 205'

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt/Sample	Date & Time	Engr.
6-9-97	140 cf	TBG @ 200'	1500	SPM	5'	VISUAL	6/10 1100	SPM

OGD10 (11/93/GSR1/5M)

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Grayson Service Inc. Field Newhall County Los Angeles
Well Eadie #1, Sec. 23, T 3N, R 16W, MD B. & M.
A.P.I. No. 037-06077 Name Bob Grayson (Person submitting report) Title V. Pres. (President, Secretary, or Agent)
Date 6/23/97, 19

Signature Bob Grayson

4004 S. Enos Lane Bakersfield, Calif. 93312 (Address) (805) 589-5444 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Date	
6/6/97	(Make Location) M.I.R.U. Installed well head and B.O.P.E. Drilled with 6" bit 2'to 12' in cement, broke thru cement. Cleaned out mud 12' to 40'. P.O.H. Changed out to 9 7/8" bit. Clean out to 40'. Closed well in.
6/9/97	R.I.H. and clean out to 205'. Circulated with water. Drill pipe @ 200'. Mix and pump 140 cubic feet of neat cement with returns to surface.
6/10/97	Cut off casing @ 5' Weld on steel plate and back fill.

RECEIVED
JUN 25 1997
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
VENTURA, CALIFORNIA

Kenyon Engineering, Inc.
ENGINEERING • PLANNING • SURVEYING
12138 INDUSTRIAL BLVD., SUITE 240
VICTORVILLE, CA 92392
(619) 241-6146
FAX: (619) 241-0566

RECEIVED
JUN 16 1997

June 12, 1997

BROWNING FERRIS INDUSTRIES
ATTN: BRAD COOLEY
14747 San Fernando Road
Sylmar, CA 91342

RE: OIL WELLS

Dear Brad:

Pursuant to our conversation here are the coordinates and elevations for the capped oil wells.

OIL WELL IN NORTH CANYON	PADUA # 1
N 33534.11	
E 32508.41	
EL 1686.10	

OIL WELL AT TOP OF CUT	EADIE # 1
N 33093.26	
E 29181.64	
EL 2132.46	

If you should have any questions pertaining to the above please feel free to contact our office.

Thank you!

Sincerely,
KENYON ENGINEERING, INC.

Craig L. Johnson
Project Manager

CLJ:cb

RECEIVED
JUN 25 1997
GEOTHERMAL RESOURCES
VENTURA, CALIFORNIA

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. P297-226

PERMIT TO CONDUCT WELL OPERATIONS

---- (field code)
--- (area code)
--- (new pool code)
--- (old pool code)

Cheryl S. Grayson
Grayson Services, Inc.
4004 S. Enos Lane
Bakersfield, CA. 93312

Ventura, California
June 13, 1997

Your supplementary proposal to abandon well "Eadie" 1 Texaco Inc.,
A.P.I. No. 037-06077, Section 23, T. 3N, R. 16W, S.B. B.&M.,
---------- field, ---------- area, ---------- pool,
Los Angeles County, dated 6/2/97, received 6/11/97, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. THIS DIVISION SHALL BE NOTIFIED:
   a. To witness cementing operations.

SAF:sf

Engineer Steven A. Fields

Phone (805) 654-4761

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____

Patrick J. Kinnear
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG111 (Modified 1993)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

SUPPLEMENTARY NOTICE

FOR DIVISION USE ONLY			
BOND	FORMS		EDP WELL
	OGD114	OGD121	FILE
		✓	

A notice to the Division of Oil and Gas dated FEB 28, 19 92, stating the intention to

ABANDON (Drill, rework, abandon) well TEXACO INC. EADIE #1 (Well designation), API No. 037-06077,

Sec. 23, T. 3N, R. 16W, ____ B.& M., NEWHALL Field,

LOS ANGELES County, should be amended because of changed conditions.

1. The complete casing record of the well (present hole), including plugs and perforations, is as follows:

11 3/4" CASING TO 500'

PLUGGED WITH CEMENT 850'-766', 530'-400', 15'-5'

2. The total depth is: 8011 feet. The effective depth is: _____ feet.

3. Present completion zone (s): _____ (Name). Anticipated completion zone (s): _____ (Name).

4. Present zone pressure: _____ psi. Anticipated/existing new zone pressure: _____ psi.

We now propose: *(A complete program is preferred and may be attached.)*

1. M.I.R.U.
2. DRILL OUT SURFACE PLUG FROM 15'-5'.
3. PLUG WITH CEMENT FROM 200' TO SURFACE.
4. WELD ON STEEL PLATE.

RECEIVED
JUN 11 1997
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
VENTURA, CALIFORNIA

Note: If the well is to be redrilled, show proposed bottom-hole coordinates and estimated true vertical depth.
The Division must be notified if changes to this plan become necessary.

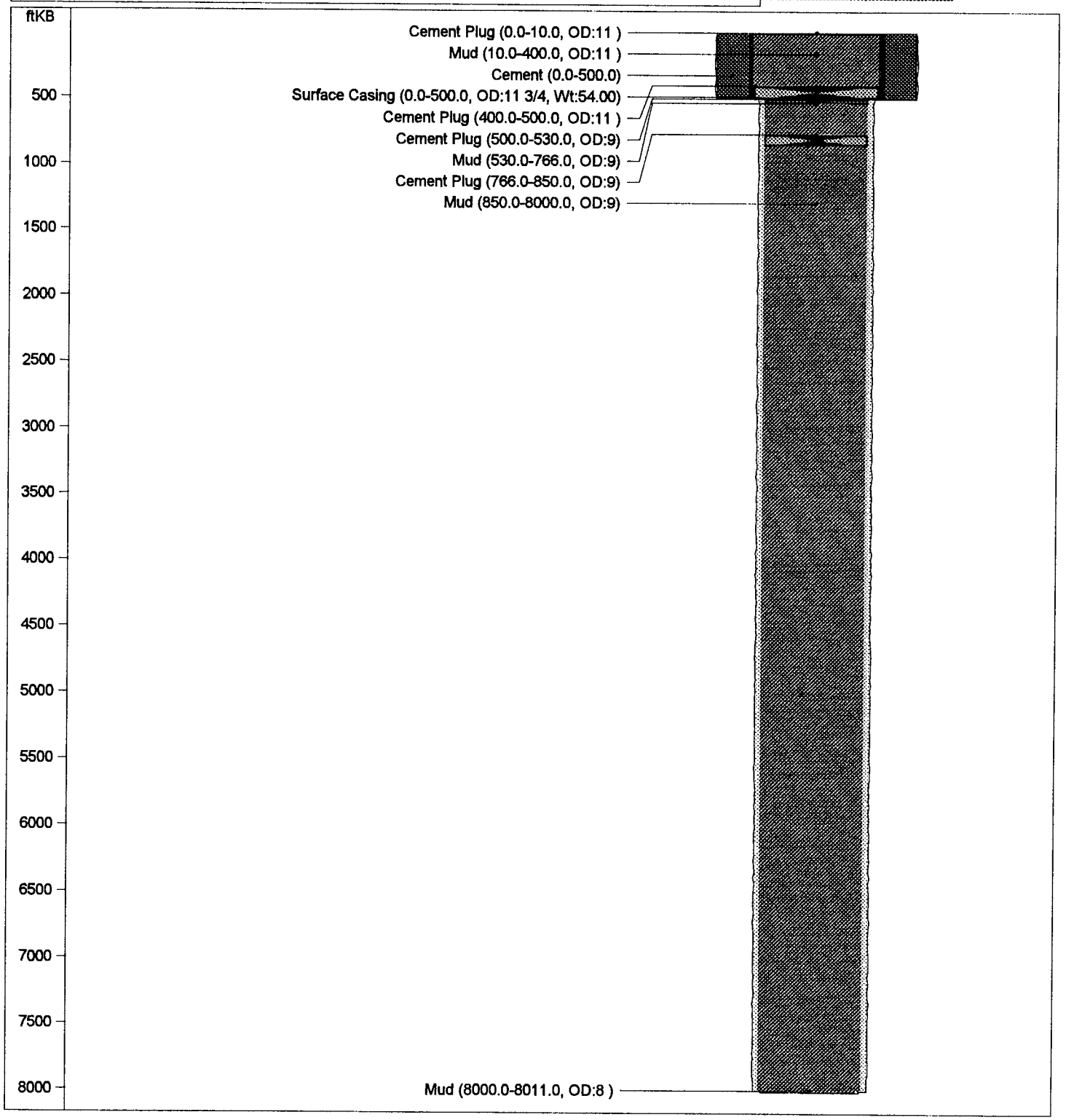
Name of Operator	Telephone Number	
GRAYSON SERVICE INC.	(805) 399-6300	
Address	City	Zip Code
4004 S. ENOS LANE	BAKERSFIELD	93312
Name of Person Filing Notice	Signature	Date
BOB GRAYSON	Bob Grayson	6-2-97

File In Duplicate

OG123 (3/90/GSR1/5M)

04037060770000	
Well Name	EADIE 1
Operator	TEXACO E & P INC
Field Name	ANY FIELD
TD	8011.0 ftKB
PBTD	0.0 ftKB
Approval Date	22-Jul-53
Spud Date	16-Aug-53
TD Date	13-Nov-53
Production Date	
Injection Date	
P/A Date	13-Nov-53

Division of Oil & Gas Conservation



6/2/97

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

REPORT OF CORRECTION OR CANCELLATION

Ventura, California

October 24, 1996

Brand Burfield
PRA Group
2495 Industrial Parkway West
Hayward, CA 94545

In accordance with Division 3 of the Public Resources Code, Section 3202 - If operations have not commenced within one year of receipt of the notice, the notice will be considered canceled.

the following changes pertaining to your well Texaco Inc. "Eadie" 1 (Well Designation)
---------- field, Los Angeles County,

Sec. 23, T. 3N, R. 16W, S.B. B.&M., is being made in our records:

__ The corrected location is _____

_____

__ The corrected elevation _____

__ Report No. _____, dated _____, has been corrected as follows:

_____

_____

_____

XX Your notice to abandon (Drill, abandon, etc.) dated September 16, 1993 and our report No. P293-349 issued in answer thereto, are hereby canceled inasmuch as the work will not be done. If you have a drilling bond on file covering this notice it will be returned. No request for such return is necessary.

__ Other: _____

_____

_____

tkc

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____
Patrick J. Kinnear
Deputy Supervisor

OG165 (Modified 6/94)

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

WELL STATUS INQUIRY

Ventura, California

September 28, 1994

Brand Burfield
PRA Group
2495 Industrial Parkway West
Hayward, CA 94545

In a notice dated September 16, 1993, you propose to abandon well Texaco, Inc. "Eadie" 1 (037-06077) Sec. 23, T. 3N, R. 16W, S.B. B. & M., Los Angeles County.

Please indicate below, conditions or intentions regarding this proposed work and return the completed form to this office within 10 days.

svl

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____
Patrick J. Kinnear
Deputy Supervisor

_____ **PROPOSED WORK HAS BEEN DONE.** (If you check this space, please file the required well records on this work in duplicate within 60 days after work was completed.*)

_____ **PROPOSED WORK IS IN PROGRESS AND SHOULD BE COMPLETED ABOUT** _____ 19___

_____ **PROPOSED WORK HAS NOT BEEN DONE, BUT WE STILL INTEND TO DO THE WORK.****

____ **SUPPLEMENTARY NOTICE (Form OG 123) Attached).**

____ **PLEASE CONSIDER THIS FORM AS A SUPPLEMENTARY NOTICE.**

_____ **WE DO NOT INTEND TO DO THE PROPOSED WORK. Please cancel our notice to** _____, dated _____ 19___.

_____ **OTHER:** _____

_____
(Signature)

_____
(Name and Title) (Date)

* Division 3 of the Public Resources Code states in part:
Section 3215...Well records shall be filed 60 days after completion or suspension of proposed work.

** Section 3203...If operations have not commenced within one year or receipt of the notice, the notice will be considered canceled. (To prevent cancellation, file a Supplementary Notice with the division)

ODG3 (modified 9/93)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. P293-349

PERMIT TO CONDUCT WELL OPERATIONS

--
(field code)
--
(area code)
--
(new pool code)

(old pool code)

Brand Burfield
PRA GROUP
2495 Industrial Parkway West
Hayward, CA. 94545

Ventura, California
September 22, 1993

Your supplementary proposal to abandon well Texaco, Inc. "Eadie" 1, A.P.I. No. 037-06077, Section 23, T. 3N, R. 16W, S.B. B.&M., --- field, --- area, --- pool, Los Angeles County, dated 9/16/93, received 9/20/93, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Requirements specified in permit No. P292-068, dated March 11, 1992 shall apply.

cc: Texaco, Inc.

NO BOND REQUIRED

Engineer Steven A. Fields

Phone (805) 654-4761

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____
Patrick J. Kinnear
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG111 (Modified 1993)

344

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
WELL STATUS INQUIRY

Ventura, California

September 14, 1993

Brand Burfield
PRA GROUP
2495 Industrial Parkway West
Hayward, CA. 94545

In a notice not dated, you propose to reabandon
Texaco E&P Inc. "Edie" 1 (037-06077) Sec. 23, T. 3N, R. 16W, S.B. B.& M.,
Los Angeles County.

Please indicate below, conditions or intentions regarding this proposed work and return the completed form to this office within 10 days.

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____
Patrick J. Kinnear
Deputy Supervisor

_____ **PROPOSED WORK HAS BEEN DONE.** (If you check this space, please file the required well records on this work in duplicate within 60 days after work was completed.*)

_____ **PROPOSED WORK IS IN PROGRESS AND SHOULD BE COMPLETED ABOUT** _____ 19___

_X_ **PROPOSED WORK HAS NOT BEEN DONE, BUT WE STILL INTEND TO DO THE WORK.****

___ **SUPPLEMENTARY NOTICE (Form OG 123) Attached).**

_X_ **PLEASE CONSIDER THIS FORM AS A SUPPLEMENTARY NOTICE.**

_____ **WE DO NOT INTEND TO DO THE PROPOSED WORK. Please cancel our notice to** _____, dated _____ 19___.

_____ **OTHER:** _____

(Signature)

BRAND BURFIELD - STAFF GEOLOGIST 9/16/93
(Name and Title)

DIVISION OF OIL AND GAS
RECEIVED
SEP 20 1993
VENTURA, CALIFORNIA

* Division 3 of the Public Resources Code states in part:
Section 3215...Well records shall be filed 60 days after completion or suspension of proposed work.

** Section 3203...If operations have not commenced within one year or receipt of the notice, the notice will be considered canceled.
(To prevent cancellation, file a Supplementary Notice with the division)

ODG3 (modified 9/93)

PRA Group
CONSULTING ENGINEERS

No. GB-100/G202-07
September 17, 1993

State of California-Resources Agency
Department of Conservation
Division of Oil and Gas
1000 S. Hill Road, Ste. 116
Ventura, CA 93003-4458

Attention: Mr. Steve Fields

SUBJECT: Transmittal of Well Status Inquiry Forms for Proposed Oil Well Abandonment at the Sunshine Canyon Sanitary Landfill, Sylmar, California.

Dear Mr. Fields:

We have received the Well Status Inquiry forms sent to us by your office, dated September 14, 1993. It is still our intention to abandon the oil wells prior to construction of the proposed landfill expansion at the subject site. Due to unforeseen delays in the construction schedule, it has been necessary to postpone the proposed oil well abandonment program. Enclosed with this letter are the completed well status inquiry forms for the proposed oil well abandonment at the subject site. We will notify you as soon as a tentative schedule for well abandonment is set up.

Thank you for your consideration. If you have any questions, please contact this office.

Very truly yours,

THE PRA GROUP, INC.

Brand W. Burfield
Staff Geologist

Irving D. Affeldt
Principal

bwb/G20207.1

enclosures: Well Status Inquiry forms (10 total)

DIVISION OF OIL AND GAS
RECEIVED
SEP 2 [illegible]
VENTURA, CALIFORNIA

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

No. P292-068
Field Code --
Area Code --
New Pool Code --
Old Pool Code --

PERMIT TO CONDUCT WELL OPERATIONS

PRA GROUP, CONSUL. ENGINEERS
2495 Industrial Parkway West
Hayward, California 94545

Ventura, California
March 11, 1992

Your supplementary proposal to abandon well TEPI/"Eadie" 1,
A.P.I. No. 037-06077, Section 23, T. 3N, R. 16W, S.B. B.&M.,
---------- field, ---------- area, ---------- pool,
Los Angeles County, dated -----, received 3/6/92, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout prevention equipment conforming to DOG Class I 1M requirements shall be installed and maintained in operating condition at all times.
2. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
3. This office shall be consulted before deviating from the proposed abandonment program.
4. THIS DIVISION SHALL BE NOTIFIED:
   a. To witness the placing of the surface plug or to verify its location.

NOTE: Please have well surveyed by a licensed surveyor and submit results to this office.

SF:tkc
cc: Texaco E. & P. Inc.

Engineer Steve Fields

Phone (805) 654-4761

K.P. HENDERSON, Acting Chief

By Patrick J. Kinnear
Patrick J. Kinnear
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.
OG111

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

SUPPLEMENTARY NOTICE

FOR DIVISION USE ONLY			
BOND	FORMS		EDP WELL
	OGD114	OGD121	FILE
		✓	✓

A notice to the Division of Oil and Gas dated February 28th, 19 92, stating the intention to

abandon (Drill, rework, abandon) well "Eadie" #1 (Well designation), API No. 037-06077,

Sec. 23, T. 3 N, R. 16 W, S.B. B.&M., ~~Newhall~~ Los Angeles Sp. Field,

Los Angeles County, should be amended because of changed conditions.

1. The complete casing record of the well (present hole), including plugs and perforations, is as follows:

11-3/4" casing to 500'.
Plugged with cement from 850'-766', 530'-400', and 15'-5'.

2. The total depth is: 8011 feet. The effective depth is: _____ feet.

3. Present completion zone (s): _____ (Name) Anticipated completion zone (s): _____ (Name).

4. Present zone pressure: _____ psi. Anticipated/existing new zone pressure: _____ psi.

We now propose: *(A complete program is preferred and may be attached.)*

The proposed work program is attached to this permit.

DIVISION OF OIL AND GAS
RECEIVED
MAR 06 1992
VENTURA, CALIFORNIA

Note: If the well is to be redrilled, show proposed bottom-hole coordinates and estimated true vertical depth.
The Division must be notified if changes to this plan become necessary.

Name of Operator	Telephone Number	
PRA Group	(510) 732-9890	
Address	City	Zip Code
2495 Industrial Parkway West	Hayward	94545
Name of Person Filing Notice	Signature	Date

File In Duplicate

OG123 (3/90/GSR1/5M)

DIVISION OF OIL AND GAS
RECEIVED
MAR 0 6 1992
VENTURA, CALIFORNIA

No. GB-100/G102-23
February 28, 1992

Proposed Work Program

1. Locate oil wells.

2. Drill out existing surface seal and drilling mud from each oil well casing to a depth of approximately 60 feet below existing grade.

3. Reabandon each oil well by installing a new surface seal of tremied cement grout into the upper 60 feet of each oil well casing.

PRA Group
CONSULTING ENGINEERS

DIVISION OF OIL AND GAS
RECEIVED
MAR 0 6 1992
VENTURA, CALIFORNIA

No. GB-100/G102-23
February 28, 1992

Department Of Conservation
Division Of Oil And Gas
1000 S. Hill Road, Suite 116
Ventura, CA 93003-4468

Attention: Mr. Steve Fields

SUBJECT: Confirmation of Telephone Conversation Regarding Abandonment of Oil Wells at the Proposed Sunshine Canyon Sanitary Landfill County Extension, Los Angeles County, California.

Dear Mr. Fields:

With regards to our telephone conversation of February 7, 1992, I would like to confirm in writing our discussion regarding the procedure to be followed during oil well abandonment. Construction is scheduled to begin at the landfill extension site very soon and it is important to us that our oil well abandonment program run as smoothly as possible.

It is our understanding that the current standards for the abandonment of oil wells approved by the Division of Oil and Gas (DOG) state that the well must have neat cement grout seals across the producing interval, the saltwater/freshwater interface (if applicable), and at the surface. During our phone conversation, we also discussed the available DOG abandonment records and concluded that six of the eight wells at the subject site (Newhall Field, well nos. 53, 54, 55, 56, 57 and 61) were abandoned to current DOG standards. The abandonment records for the other two wells (Newhall Field, well nos. 59 and 63) are incomplete.

It is proposed to replace the existing surface seals in all of the oil wells with new seals deep enough not to be undercut by the proposed earthwork. In our conversation, I confirmed that it would be acceptable to the DOG if the well casing was drilled out to a depth of 60 feet below grade and a new neat cement surface seal was installed. It is our understanding that it will not be necessary for DOG personnel to perform leak testing since our plan is to replace the surface seals.

Enclosed with this letter are permit applications for the proposed work at the subject site. Thank you for your prompt consideration. If you have any questions, please contact this office.

Very truly yours,

THE PRA GROUP, INC.

Brand Burfield
Staff Geologist

Irving D. Affeldt, CEG 1108
Principal

bwb/G10223.DOG

enclosures: Permit applications for oil well abandonment

FORM 159 (9-49)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

REPORT OF WELL ABANDONMENT

Los Angeles 15, California, January 27, 1954

Mr R L Jackson
The Texas Co
P O Box 320
Long Beach 1 California

Dear Sir

Your report of abandonment of Well No. "Radie" 1, Sec. 23, T. 3 N, R. 16 W, S B B. & M., Newhall oil field, Los Angeles County, dated December 16, 1953, has been examined in conjunction with records filed in this office.

A review of the reports and records shows that the requirements of this Division, which are based on all information filed with it, have been fulfilled.

MAP	MAP BOOK	CARD	BOND	FORMS 114	FORMS 121
18A gelt	gelt		[illegible]		[illegible]

Yours truly

R. D. BUSH
State Oil and Gas Supervisor

By R. W. Walling
Deputy Supervisor

cc Mr R D Bush
Company
Conservation Committee
orig Mr R F Cory

es

82601 7-53 6700 SPO

FORM 100. 7-48
CALIFORNIA STATE PRINTING OFFICE

SUBMIT LOG IN DUPLICATE
FILL THIS BLANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF PAPER ONLY

DIVISION OF OIL AND GAS
RECEIVED
JAN 7 1954
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

Operator The Texas Company Field (Weldon Canyon) Rincon

Well No. Eadie #1 Sec. 23, T. 3N, R. 16W, S.B. B. & M.

Location 2425.28' S along Sec. line and 1482.21' W at rt. angles to said line from the NE cor. of Sec. 23, T3N, R16W, SBB&M

Elevation above sea level 2137.1 feet.

All depth measurements taken from top of Kelly Bushing which is 11.5 feet above ground.

In compliance with the provisions of Chapter 93, Statutes of 1939, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date December 16, 1953

Signed [signature]

[signature] (Engineer or Geologist)

R. L. Fabton (Superintendent)

Title Superintendent (President, Secretary or Agent)

Commenced drilling 8-16-53 Completed drilling 11-13-53 Drilling tools Cable Rotary

Total depth 8011' Plugged depth 0

Junk

GEOLOGICAL MARKERS — DEPTH

Commenced producing Abandoned (date) Flowing/gas lift/pumping (cross out unnecessary words)

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production						
Production after 30 days						

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cementing if through perforations
11 3/4"	500'	surf	54#	New	Smls	J-55	17 1/2	450	

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

Electrical Log Depths 500' to 8011' (Attach Copy of Log)

FORM 103.
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JAN 7 1954
LOS ANGELES, CALIFORNIA

History of Oil or Gas Well

OPERATOR The Texas Company FIELD Weldon Canyon

Well No. Eadie #1, Sec. 23, T. 3N, R. 16W, S.B. B. & M.

Signed

Date December 16, 1953 Title Superintendent
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. **Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production.** Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date

1953

DRILLING CONTRACTOR - FOWLER DRILLING CO.

8-16 Spudded in at 11:00 P.M. in 11" hole.

8-17 Lost circulation at 114', regained circulation at 130'. Drilled ahead with partial circulation.

8-18 Drilled 11" hole to 496' opened 11" hole to 17½" from 0 to 267'. Lost circulation at 175'. Mixed lost circulation material and regained circulation at 205'.

8-19 Opened hole to 17½" to 496' and drilled to 500'. Ran 12 joints, 11¾", 54#, casing, 503' overall including Baker Float shoe. Cemented at 500 K.B. with 450 sacks Construction cement mixed with 3% gel. Used 1 top rubber plug. Displaced with 322 cu. ft. of mud. Did not bump plug. No cement return to surface. Cement in place at 11:15 P.M. B. J. Equipment.

8-20 Cement set 2 hours. Ran 200 feet of 2" pipe on outside of the casing to top of cement. Pumped in 80 sacks cement. Set 2 hours then pumped in 70 sacks. Got cement returns to surface. In place 4:30 A.M.

8-22 Installed blowout prevention equipment and tested at 1500 psi. Drilled 9-7/8" hole ahead. Mud weight, 73; viscosity, 43; sand, 2%; water loss, 9 cc.

8-25 Drilled 9-7/8" hole to 1446'. Cored with 8⅜" core barrel from 1446 to 1462'. Recovered 3'. Drilled 8½" hole to 1568'.

8-26 Opened 8½" hole to 9-7/8" from 1446' to 1568' and drilled to 1900'.

8-27 Circulated and conditioned mud for electric log. Drilled 9-7/8" hole ahead to 2075'.

8-29 Cored 8½" hole from 2075' to 2166'. Mud weight, 76; viscosity, 48; sand, 1.5%; water loss 4.5 cc.

9-1 Drilled 8½" hole to 2435', cored 8½" hole from 2435' to 2455' then drilled 8½" hole ahead to 2604'.

Page 23 ... Wetzon Energy

December 15, 1953 ... Superintendent

DRILLING CONTRACT - KONIGSKI MATERIAL CO.

Spudded at 11:00 p.m. on 12" hole.

Lost circulation material (LCM), regular consistency at 530'. Drilled ahead with partial returns.

Drilled 11" hole to 1960' opened 17" hole to 1748'. Ream 0 to 2527'. Lost circulation at 2527'. Mixed LCM consistency and pumped 50 bbl pill. Regained full returns at 2531'.

Opened hole to 17½" to 1960' and drilled to 2001'. Run 17 joints, 13⅜" 54.5# casing to 1960'. Cemented with 1500 sx 65/35 cement, 6% gel, 3% salt, 1/4 lb/sx flocele. Displaced with 1 top rubber plug. Displaced with 120 bbl mud. Bumped at 11:35 p.m. Good returns throughout. No cement to surface. Ran temp survey 2 hours later. Top of cement at 1200'.

Waited on cement 18 hours. Run 200 joints of 9⅝" casing to 8000'. Ran 17 joints, 13⅜" 54.5# casing to 1960'. Cemented with 1500 sx 65/35 cement, 6% gel, 3% salt, 1/4 lb/sx flocele. Displaced with 120 bbl mud. Bumped at 11:35 p.m. Good returns throughout. No cement to surface. Ran temp survey 2 hours later. Top of cement at 1200'.

Drilled 9-7/8" hole to 8000'. Ran 200 joints of 7" 23# casing to 8000'. Cemented with 1000 sx 50/50 pozmix, 2% gel, 18% salt, 1/4 lb/sx flocele. Displaced with 310 bbl mud. Bumped plug at 2:30 a.m. Good returns throughout. Cement in place at 3:15 a.m.

Drilled 6⅛" hole to 8200'. Ran 10 joints of 4½" 11.6# liner to 8200'. Cemented with 200 sx 50/50 pozmix, 2% gel, 18% salt, 1/4 lb/sx flocele. Displaced with 120 bbl mud. Bumped plug at 4:45 a.m. Good returns throughout. Cement in place at 5:30 a.m.

Opened 6⅛" hole to 9,170' from 7918' to 8250' and drilled to 9170'.

Drilled 9-7/8" hole to 7918'. Stuck at 7918' from 7900' to 7918'. Worked pipe free. Circulated and conditioned mud for electrolog. Drilled 9-7/8" hole ahead to 8250'.

Logged well with Schlumberger. Ran 200 joints of 7" 23# casing to 8000'. Cemented with 1000 sx 50/50 pozmix, 2% gel, 18% salt, 1/4 lb/sx flocele. Displaced with 310 bbl mud. Bumped plug at 2:30 a.m. Good returns throughout. Cement in place at 3:15 a.m.

Drilled 6⅛" hole to 9,170'. Ran 10 joints of 4½" 11.6# liner to 8200'. Cemented with 200 sx 50/50 pozmix, 2% gel, 18% salt, 1/4 lb/sx flocele. Displaced with 120 bbl mud. Bumped plug at 4:45 a.m. Good returns throughout. Cement in place at 5:30 a.m.

DIVISION OF OIL AND GAS
RECEIVED
JAN 7 1954
LOS ANGELES, CALIFORNIA

9-2 Opened 6½" hole to 9-7/8" from 2075' to 2298'. Ran electric log.

9-4 Drilled 9-7/8" hole to 2806' changed to 8½" Reed core barrel and cored ahead to 2882'.

9-5 Ran electric log and hole caliper. Mud weight, 77; viscosity, 45; sand, ½" water loss 4 cc.
Ran DPT #1. Set packer at 2815' tail to 2882'. Medium blow for 1 hour. Gas in 15 minutes. Recovered 310' of gassy thin mud. Salinity 3020 ppg. B.H.F.P. 200 psi B.H.S.P. 200 psi.

9-6 Opened 6½" hole to 9-7/8" from 2806' to 2882' and drilled to 2950', changed to 8½" Reed corehead and cored from 2950' to 3005'.

9-7 Ran electric log and hole caliper.
Ran H.F.T. #2, set packer 2955' tail to 3005. Open 75 minutes, medium blow declined steadily. Gas in 25 minutes. Recovered 1750' of gassy muddy water. Salinity 1110 ppg. B.H.F.P. 900 psi B.H.S.P. 880 psi. Incomplete build up.

9-9 Opened 6½" hole to 9-7/8" from 2950' to 3005'.

9-11 Drilled 9-7/8" hole to 3490' changed to 8½" Reed corehead and cored from 3490' to 3523' changed to 9-7/8" bit and drilled ahead.

9-12 Mud weight, 79; viscosity, 43; sand, 3%; water loss, 6 cc.

9-15 Drilled 9-7/8" hole to 3856' changed to 8½" corebarrel and cored to 3873' changed to 9-7/8" bit and drilled ahead.

9-19 Mud weight, 81; viscosity, 45; sand, 3%; water loss, 6.4 cc.

9-22 Cored 9-7/8" hole from 4643' to 4653'.

9-26 Mud weight, 81; viscosity, 48; sand, 4%; water loss, 7 cc.

9-27 Reamed from 5286' to 5316'.

9-30 Drilled to 5526' and cored 9-7/8" hole from 5526' to 5544'.

10-3 Mud weight, 81; viscosity, 48; sand, 4%; water loss 6 cc.

10-4 Drilled to 6054', cored from 6054' to 6073' in 9-7/8" hole.

10-10 Drilled 9-7/8" hole to 6508'. Cored from 6508' to 6514' in 9-7/8" hole. Mud weight, 82; viscosity, 45; sand, 4%; water loss, 6 cc.

10-13 Drilled to 6660', cored 9-7/8" hole from 6660' to 6668', drilled ahead in 9-7/8" hole.

10-17 Mud weight, 82; viscosity, 46; sand, 4%; water loss, 7 cc.

10-18 Cored from 6990' to 7000' with 9-7/8" bit. Ran Schlumberger electric log, side wall sampler and dip meter.

10-19 Drilled 8-1/2" hole to 7042' opened hole to 9-7/8" from 7000' to 7042'.

10-24 Mud weight, 82; viscosity, 47; sand, 2%; water loss, 6 cc. Drilled 9-7/8" hole to 7367'.

10-28 Drilled 9-7/8" hole to 7606'.

10-29 Cleaned out 50' cavings. Hole filling with fractured shale. Raised mud weight to 90# per cu. ft.

10-31 Drilled 9-7/8" hole to 7716'. Tight hole from 7600' to 7500'. Pulled up to 5000' to circulate and lost circulation. Ran in hole and circulated at intervals, lowered mud weight from 88 to 80 lbs per cu. ft. Regained circulation. Shale running at 7200' to 7400'. Lowered water loss of the mud.

11-1 Reamed from 7290' to 7450'. Tried to stop shale from coming in 7430' to 7450'. Mud weight, 80; viscosity, 62; sand, 2%; water loss, 5 cc. Changed to emulsion type mud.

11-2 Conditioned hole, shale running. Mud weight 80#; viscosity 65 to 90 seconds, sand 2%; water loss 3.3 cc in 30 minutes.

11-3 Conditioned mud and hole. Shale stopped running. Mud weight 80 to 81#; viscosity 80 to 95 seconds; sand, 2%; water loss 2.0 cc in 30 minutes.

11-4 Drilled 9-7/8" hole ahead.

11-7 Drilled 9-7/8" hole to 7879'. Ran Schlumberger electric log and side wall sampler. Sidewall sampler stuck at 2009'. Ran socket as drill pipe and released sampler.

11-8 Drilled 9-7/8" hole to 7905'. Cored 8½" hole from 7905' to 7913'. Mud weight, 80; viscosity, 115; sand, 2%; water loss, 3 cc.

11-9 Cored from 7913' to 7923'. Opened 8½" rat hole to 9-7/8" from 7905' to 7923'.

11-11 Drilled 9-7/8" hole to 8000' changed to 8½" corehead and cored from 8000' to 8011'.

11-12 Ran Schlumberger electric log. Hung 4½" drill pipe at 850'. Pumped in 75 sacks Construction cement with 2% calcium chloride. Cement in place 11:10 A.M. Cement set 6 hours. Top of plug 766'. Approved by D.O.G. Plug job #2: Hung pipe at 530'. Pumped in 75 sacks cement. In place at 8:00 P.M.

11-13 Located top of plug #2 at 400'. Placed 10 lineal feet of cement in 11¾" casing at surface and welded on steel plate. Rig released at 9:00 A.M.
Well abandoned.

The Texas Company

Eagle #2

Golden Canyon

Section 23 T3N R6W

DIVISION OF OIL AND GAS
RECEIVED
JAN 7 1954
LOS ANGELES, CALIFORNIA

INCLINATIONS

Depth	Degrees of Drift
100'	0 degrees 30 minutes
249'	0 degrees 45 minutes
400'	¼ degree
596'	¼ degree 30 minutes
696'	¼ degree 30 minutes
790'	¼ degree 15 minutes
850'	¼ degree
1010'	¼ degree 15 minutes
1090'	0 degrees 45 minutes
1230'	¼ degree 30 minutes
1300'	¼ degree
1396'	¼ degree 45 minutes
1477'	¼ degree 30 minutes
1568'	¼ degree 15 minutes
1650'	¼ degree
1750'	1 degree 30 minutes
1840'	2 degrees 15 minutes
1900'	2 degrees 15 minutes
1990'	2 degrees 15 minutes
2173'	2 degrees
2257'	2 degrees 30 minutes
2324'	2½ degrees
2421'	2 degrees 30 minutes
2520'	2 degrees 30 minutes
2604'	2 degrees 45 minutes
2720'	2 degrees 30 minutes
2806'	2½ degrees
2930'	2 degrees
3022'	2½ degrees
3102'	2½ degrees
3220'	¼ degree 45 minutes
3265'	50 minutes
3313'	½ degree
3428'	¼ degree 15 minutes
3497'	¼ degree 30 minutes
3560'	½ degree
3652'	¼ degree 15 minutes
3745'	¼ degree 15 minutes
3960'	½ degree
4050'	½ degree
4232'	¼ degree 0 minutes
4268'	¼ degree 15 minutes
4502'	½ degree
4596'	50 minutes
4719'	0 degrees 45 minutes

Depth	Degrees of Drift
4928'	½ degree
5018'	0 degrees 30 minutes
5260'	0 degrees 45 minutes
5357'	1 degree
5450'	1 degree 45 minutes
5570'	1 degree 45 minutes
5698'	1 degree 30 minutes
5819'	1 degree 45 minutes
5911'	½ degree
6000'	2 degrees 15 minutes
6284'	4 degrees 15 minutes
6322'	5 degrees 45 minutes
6384'	4 degrees
6437'	5 degrees 45 minutes
6514'	½ degrees
6564'	3 degrees
6615'	3 degrees
6660'	3½ degrees
6826'	2 degrees 40 minutes
6939'	2½ degrees
6990'	2 degrees 30 minutes
7101'	2½ degrees
7273'	2 degrees
7342'	1 degree 45 minutes
7413'	2 degrees
7567'	2 degrees

The Texas Company

Sec. #1

Weldon Canyon

Section 23-3N-16W

SCHLUMBERGER SIDE-WALL SAMPLES
Described by W. S. King
10-16-53

Depth	Recovery	
3063'	1½"	Sand, mottled tan to light green gray, firm, friable, conglomeratic, with subrounded pebbles to 1/4" diameter, matrix is coarse grained, silty, tight, patchy faint oil stain, faint odor, very patchy fluorescence, faint straw cut.
3105'	2"	Sand, light gray to tan stained, friable, fine grained, fair sorting with a rare pebbles to 1/4", silty, fair to poor porosity and permeability, mottled tan oil stain, mottled yellow fluorescence, fair odor, light amber cut.
3246'	1"	Sand, patchy light oil stain to medium gray, friable, fine to very coarse grained, poorly sorted, tight, faint odor, uneven yellow fluorescence where stained, remainder is gray, light straw cut.
3595'	1"	Sand, mottled green gray to tarnish gray, friable, appears crushed, conglomeratic with rounded pebbles to 1/4" diameter, matrix coarse grained, very poorly sorted, silty, arkosic, uneven light tan staining, spotty yellow fluorescence, faint odor, very pale straw cut.
3940'	1/2"	Sand, medium gray, badly broken and mud injected, appears conglomeratic, matrix silty and tight, no odor, no visible stain, rare spots yellow fluorescence.
3967'	1/4"	Igneous pebble with light gray coarse grained, sand along one edge. Pebble dark gray to black, very hard, common pyritization, microcrystalline. Occasional spots yellow fluorescence in sand.
4026'	1"	Sand, light gray with greenish and tan spots, friable, medium to coarse grained, with rare pebbles to 1/2" diameter and 2 2/5" stringer fine grained, silty, oil stained sand which have patchy yellow fluorescence, faint odor, remainder of core is gray.
4143'	1/2"	Sand, conglomeratic, light grey, occasional faint tan spots oil stain, friable, coarse grained with sub-rounded pebbles to 1/4" diameter, quartzose, arkosic, matrix very poorly sorted, silty, tight, no odor, patchy dull yellow fluorescence, weak spotty stain, extremely light yellow straw cut.

The Texas Company (Golden Canyon)

Eadie #1 Section 23-3S-16W

SCHLUMBERGER SIDE-WALL SAMPLES
Described by G. T. Benson
11-6-53

Depth	Rec.	
7191'	½"	Silty brown shale with occasional thin stringers of fine grained sand. Shale broken up. Sample broken up. No oil shows.
7280'	½"	Silty brown shale as at 7191' above with few chips of gray, fine grained sand with occasional medium grains. No oil shows.
7322'	½"	Gray and brown silty shale as at 7280' above. No oil shows.
7421'	1"	Brown silty shale as at 7322' above and light gray sandy shale. Sand is very fine grained. Gray shale is slightly micaceous, slickensided. No oil shows.
7520'.	Not recovered	
7500'	3/4"	Gray, slightly sand shale as at 7322' above. No oil shows.
7599'	3/4"	Gray, sandy shale as at 7500' above. One patch yellow fluorescence.
7603'	1/2"	Hard, brown-gray, sandy shale, broken up. Few patches yellow fluorescence.
7786'	1/2"	Hard, brown-gray shale as at 7603' above. One small patch yellow fluorescence.
7808'	3/4"	Gray sandy shale with occasional streaks of gray, fine grained sand. Occasional streaks yellow fluorescence.
7520'	Rec. (dat.) 3/4"	Hard, light and dark gray shale. Dark gray shale is slightly micaceous. Broken up.

Bullet with sample was recovered with cavings in Core #26.

The Texas Company

Eadie #1

Weldon Canyon

Section 23-3N-16W

CORE DESCRIPTION
Described by L. B. Freeman
8-25-53

Core #1
1446-1462' Rec. 3'

2½' Oil stained sandstone, fine to medium grained, coarse, material scattered throughout, rounded to subangular, arkosic, poor to fair sorting, dirty, very silty, tight to poor porosity and permeability, massive to poorly bedded, 35° dips; sharp gassy odor, weak straw cut at top of recovery to very faint cut at base -- core looks slightly more permeable at top than at bottom, fair but even staining, weak pale yellow fluorescence.

½' Interbedded dark gray, sandy siltstone and tight oil stained sand as above in 1 - 1½" interbeds, good 30-35° dips.

Core #2
2075-2093' Rec. 14'

Described by R. N. Grivetti

8' Very fine grained silty oil sand - 1' friable then 2' hard then 5' friable, medium brown oil stained, locally clayey, tight to low porosity and permeability, massive to vaguely bedded with 45-55° dips - strong gasoline odor, even staining and gravity oil fluorescence. Dark brown cut.

3' Shale - well bedded, silty to sandy with laminae of oil saturated very fine sand, near center of interval is tight pebble conglomerate. Dips 55-57° on shale partings.

3' Very fine grained silty oil sand - firm to firm friable, fairly well bedded (dips 56°). Medium brown, well saturated, strong gasoline odor, even bright yellow (hi gravity oil) fluorescence. Grains angular. Low porosity and permeability to tight. Dark brown cuts mostly ground up in removing from core barrel as core stuck (Core washed over with water during removal).

Core #3
2093-2113' Rec. 5' 3' Described by L. B. Freeman
Interbedded oil stained sand and gray siltstone; sand is light tan, fine grained silty, quartzose, finely micaceous, fair sorting, tight due to silty character, one 4" bed of coarse grained oil stained sand, but still silty and tight, good sharp high gravity oil odor, good even staining, yellow fluorescence, fair straw cut, gas bubbles in mud sheath; interbedded shales are dark gray, finely micaceous, locally sandy, no shows in siltstone; excellent 60° dips, upper 3' is about 40% siltstone and 60% sand.

2' Siltstone, fragments of massive siltstone, dark medium gray, finely micaceous, occasionally sandy, no shows except for some free oil along fracture planes and gas bubbles in mud sheath.

Core #4
2112-31' Rec. 18' 18' Siltstone, banded dark gray and brown, predominantly well and thinly bedded, almost a "poker-chip" parting, firm, generally sandy throughout with very fine grained quartzitic sand; siltstone is interbedded with very thin beds (1/8"-1") of very fine grained tan, quartzitic oil stained sand, silty, tight, estimate total of 2½' of oil stained sand in recovery. All having good odor, fair straw cut, even staining and even yellow fluorescence; siltstone has free oil along rare fracture plane, excellent 30° dips.

Core #5
2131-2150' No Recovery

Core #6
2150-2166' Rec. 20' 20' (4' pickup from core #5 (?))
Siltstone, medium gray to brown banded, firm, well and thinly bedded, gritty throughout but very impermeable, rare thin interbed to ¼" of very fine grained light gray to tan, silty, tight quartzitic sand, occasionally a thin streak of sand is faintly oil stained having a faint odor and no cut; excellent 80-90° dips (not overturned).

Core #7
2435-55' Rec. 16' 6". Described by L. B. Freeman
Fragments of medium gray, tight, sandy siltstone, no shows, and fine grained, silty, dirty, tight, quartzitose, tan oil stained sand, good odor, cut and fluorescence.

15½' Siltstone, banded medium gray and brown in ¼" - ½" beds, well bedded, brown siltstone is finely sandy and very foraminiferal; several 1/16" laminae of very fine grained, very tight, silty, oil stained sand, faint odor, faint cut, good fluoresacence, excellent 75° dips.

Core #8
2806-2816' Rec. 9' 9' Siltstone, banded and interbedded dark medium gray and dark brown, excellent 45° dips, firm, breaks easily along bedding planes, local slickensides along bedding planes, occasionally siltstone is finely sandy, abundant forams especially in brown beds, occasional broken shell fragment and fish remain; siltstone is interbedded with thin stringers of oil stained sand generally ⅛" thick but as thick as 2", fine grained, well sorted, angular to sub-angular, firm, micaceous, fairly clean, poor permeability, fair friability, sharp high gravity oil odor, good tan staining, strong dark brown cut, even yellow fluorescence, abundant gas bubbles in mud sheath, estimate total of 1' oil stained sand in core.

Core #9
2816-2831' Rec. 7' 7' Interbedded siltstone and oil stained sand; siltstone is banded gray and brown as in Core #8, excellent 45° dips; oil stained sand is fine to medium grained, subangular, slightly silty, fair permeability, predominantly quartz with some feldspar and biotite, occasional pink and rust colored grains, occurs generally as ⅛" interbeds, maximum 2" beds, estimate total 4' sand in core, unevenly and weakly oil stained, medium gray to faintly tan where stained, faint sour gassy odor, weak spotty pale yellow fluorescense, weak straw cut, looks wet.

Core #10 2831-2851	Rec. 16'	16'	Described by W. S. King Interbedded oil stained sand & shale Shale, brown gray and light to medium gray, banded, 1/8" to ¼" thick, firm, laminated, easily broken, silty, abundant forams. Oil stained sand, common streaks or stringers 1/8" to ½" thick, (two stks to 1" thick), lt gry w/ silt brown cast, friable, fine grained, slightly silty, fair sorting, apparent fair P & P. Good high gravity oil odor, amber cut, dull yellow to bright yellow fluorescence. Cut (CCl_4) fluoresces bright milky yellow. 30 second flash. Approx 10% of core is oil st. sand. Siltstone shells at 2833' and 2840' are med gry, hd., & dense, calcareous. Good 37°-42° dips.
Core #11 2851-2871	Rec. 10'	10'	Interbedded oil stained sand & shale as in core No. 10. Shale, brown gray to med gray, banded, firm, silty, laminated, abun forams, occ slicked bedding surface. Sand in thins streaks from paper thin to ½" thick, lt gry w/brn cast, friable fine grained, silty; subangular grains, apparent fair to poor P & P, good high gravity odor, amber cut, med to bright yellow fluorescence, cut (CCl_4) fluoresces bright milky yellow. About 20% of core is oil stained sand. Good gas flash from core barrel. Excellent 37° dips.
Core #12 2871-2881	Rec. 10'	10'	Interbedded oil stained sand & shale as in core last above. Shale, as above, firm to hard, occ broken & slightly slicked Sand, as above, in streaks & very thin to ½" thick partings. Good odor, amber cut, med yellow fluorescence, cut fluoresces milky yellow. No barrel flash. Approx 20% is oil stained sand. Excellent 40-41° dips.
Core #13 2950-2955	Rec. 2½'	½'	Described by W. S. King Oil Stained Sand as in cores above, med gray with light tan cast, friable fair bedding, fine grained, silty, fair sorting, fair P & P, micromicaceous, common fragments & disseminated carbonaceous material. Good odor, dk brown cut, med yellow fluorescence, CCl_4 cut fluoresces med yellow w/ faint green cast.

Core #13 cont'd — 1½' — Interbedded shale and oil stained sand, as in cores above, w/common streaks carbonaceous material. Approx. 20% oil std. sd.

½' — Oil std sand, med gry, w/lt tan case, hard med-crse grained, conglomeratic, silty, very poorly sorted. Pebbles to ¼" inch diam are subrounded. Poor P&P. Good odor dark brown CCl_4 cut. Med yellow fluorescence, which shows few brighter patches. Cut fluoresces med yellow w/faint green cast. good 51° dips.

Core #14
2955-2975 — Rec 1½' — 1½' — Conglomeritic oil stained sand. Fair staining, friable but w/hard streaks, med crse grained, silty, v poorly sorted, subrounded pebbles ranging to ⅜" diam. fair to poor P&P. Friable sand appears to have better P&P than hd sd. Fossil shell frags noted. Good odor, amber cut, bright yellow fluorescence, cut fluoresces bright yellow w/ slight green cast. One 2" piece siltstone, brown gry, vy hd, well bedded, locally sandy, common forams, slicked on one surface.

Core #15
2975-2995 — Rec. 12ft — 12' — Oil Sand, lt brn gry, friable to loose, med crse grained, poorly sorted, silty, locally gradding to pebbly coarse sand, rare streaks dark gry siltstone 1/8" to ¼" thick. Pebbles are subrndd, range to 12 diam. Entire core shows easy flat parting. Fair to poor P&P Good odor, dk brown cut, dull yellow to bright yellow fluor, cut fluoresces bright yellow, Locally fluorescence is uneven but no gray patches. Possibly wet. Fair dips 45°

Core #16
2995-3005 — Described by R. M. Grivetti
Rec. 3' — 3' — Conglomeritic Oil Sand - tan gray, loose to easily friable, poorly sorted, med to coarse sand studded with grits and pebbles to 2" in diameter. Recovered one fragment metamorphic boulder over 4" in diameter. Sand has fair to excellent P&P in few firm pieces recovered. (Core blew out of barrel when pumped out and is mostly loose sand and gravel). Pebbles are well rounded and polished - mostly metamorphic types but w/ some partially decomposed granites Strong gasoline odor, weak but even fluorescence, good dark brown CCl_4 cuts.

Core #17
3490-3505 Rec. 15'

Described by L.B. Freeman 9-11-53

3½' Oil Stained Sand - light tan to medium gray, fine grained w/ local scattered coarse grits and rare rounded pebbles arkosic, finely micaceous, fair sorting, silty, low p & p, fair friability, occ. thininterbeds to ¼" of dark gray-brown foraminiferal siltstone, excellent 53° dips, weak spotty staining, very faint petroleum odor with strong brackish water odor, pale straw cut where weakly stained to dark brown cut, weak spotty pale yellow fluorescence looks tight & wet.

1' Oil stained Sandstone - lithology as above but w/ more coarse grained material and fairly well cemented, firm to hard, massive, shows as above, looks tight & wet.

½' Interbedded Oil Stained Sand & Siltstone. AS IN TOP 3', sd & sltstn in alternating ¼" interbeds, good 55-60° dips, shows as above.

5' Oil Stained Sand, light tan to light med gray, med grained w/much fine material and some scattered coarse angular grits, poor to very poor sorting, firm to hard, massive, arkosic, angular to subangular, some silt, tight, shows as in top 3½' with weaker staining.

5' Interbedded siltstone & Oil stained sand as in top 3½' top 2' of this recovery has 70-90° contorted dips, bottom 3' has good 60° dips.

estimated total 8'+ oil stained sand in core.

Core #18 3505-3524	Rec. 9'	4'	Oil Stained Sand, med to crse. grained top 6" grading downward into fine grained, massive, arkosic, subangular grains, hard at top where well cemented to firm at bottom, silty throughout, tight at top to low P & P on bottom, fairly friability, light tan where stained to med gray, vy faint pet odor, weak uneven staining, pale straw cut, weak pale yellow patchy fluorescence, looks & smells wet, rare ¼" silt streaks.
		1'	Interbedded gray brown foraminiferal siltstone and tight fine grained oil stained sand, lith and shows as in top 3' (⅛ to ⅜" interbeds)
		4'	Oil Stained Sand, conglomeritic, medium to coarse grained, locally pebbly, very poorly sorted, angular to subrounded grains, tight firm at top to hard in bottom 3", massive to poorly bedded, locally silty, arkosic, finely micaceous w/occas large biotite flakes, rare ¼" gray brown foraminiferal siltstn beds giving good 55-60° dips; shows as in upper 3' but w/amber cuts, looks & smells wet.
Core #19 3656-3673'	Rec. 12'	12'	Oil Stained Sand, medium gray to light gray-tan where patchily stained, predominantly coarse grained with local grading at bottom to medium and fine grained, occasionally pebbly, subangular, massive to poorly bedded, firm to soft, where soft is easily friable, silty, tite to low p & p, predominantly quartz with scattered feldspar and biotite, occasional 1/8 - ½" streak of gray-brown gritty siltstone in top 10' of recovery, bottom 10' has one 2" interbed of dark gray siltstone, good 55-60° dips; very faint petroleum odor, weak and patchy dark brown to lite tan oil staining, bright to dull yellow spotty fluorescense, pale straw cut to fair dark brown cut where better stained, looks wet.

Core #20 6043-53'	Rec. 7'	6'	Described by L. B. Freeman 9-22-53 Siltstone, dark gray-brown, gritty with very fine grained rounded quartz sand, finely micaceous, locally slickensided along bedding planes, impermeable, contains laminae up to ¼" of oil stained sand, predominantly arkosic, silty, firm, tight, laminae are mainly fine and subangular grained but occasionally are coarse grained and angular containing scattered green mineral fragments (epatite?), good 45-50° dips, weakly oil stained, faint odor, weak to fair straw cut, uneven yellow fluorescence, looks tight and wet.
		1'	Sandstone, light gray, medium grained, angular to subrounded, poorly sorted in rounding hard, well cemented, tight, arkosic, rare fine biotite, no shows.
Core #21 5526-5544'	Rec. 1'	½'	Described by G. T. Benson 9-30-53 Siltstone. Dark brown with slight greenish tint, soft, finely micaceous. Contains occasional rounded pieces dark gray siltstone to medium sand grain size. Much drilling mud intermeixed.
		½'	Sandstone. Light gray to white. Fine grained, fairly poorly sorted, well cemented, silty arkose. Grains are subrounded. Friable. Contains about 10% gray siltstone interealated in very thin to 1/8" thick beds. Sand contains considerable amount of clay. No cut color. No fluorescence.
Core #22 6054-73'	Rec. 18'	12'	Described by L. B. Freeman - 10-5-53 Sand, medium gray, fine to medium grained, subrounded to occasionally angular, quartzose some feldspar and occasional biotite, massive, firm to locally soft and easily friable, silty, and clayey with kaolinitic material, pebbly throughout with well rounded pebbles to 1/4" of dark gray igneous material, very crumbly at 6065' where sand contains several rounded medium gray siltstone pebbles to 2", no dips noted, low permeability to tight, no shows.
		6'	Sandstone, lithology as above, less pebbly, very well cemented, hard, tight, no shows.

Core #23
6505-6550' Rec. 4' 4'

Described by G. T. Reason 10-10-53
Shale. Dark gray and black interbedded, very hard, laminated. Contains many thin to 1/4" thick beds of gray-white, fine grained, well cemented, quartzose, micaceous sand. Shale contains fish remains (?), few thin irregular patches of berry mineral. No oil stain, odor or fluorescence. Dips 65 to 90°.

Core #24
6550-6600' Rec. 6' 6'

Described by L. B. Freeman 10-11-53
Interbedded gray siltstone, brown siltstone and gray sandstone; core is predominantly medium grained siltstone, finely micaceous, rare fine grained quartz sand grains, beds to 1", brown siltstone is in thin laminae 1/4" thick, generally gritty with fine to medium grained quartz sand; sandstone in laminae to 1/4" except for one 1" bed, light medium gray, fine grained, angular to rounded, silty, clayey with white kaolinitic material, quartzose, abundant biotite, tight, excellent 85-90° dips, no odor, stain, cut, or fluorescence.

Core #25
6600-7000' Rec. 10' 10'

Described by W. S. Ling
Interbedded silty shale, siltstone, and occasional sandy streaks. Banded dark gray to dark brown gray, to light gray in sandy streaks. Firm to hard, well bedded, most of core broken into large angular fragments, with common slicks on fractured surfaces. Occasional sand streaks (About 20% of core) are fine to medium grained, silty, very poorly sorted, arkosic, quartzose, tight. One 1/2" streak near top of fine grained, silty, fair oil stained sand, friable, fair yellow fluorescence, straw cut, fair odor. Rest of sand streaks fluoresce light yellow, with faint odor, light straw cut, some dark, few oil stain on fractured surfaces. Excellent 80-90° dips.

Core #26 No Recovery 1½'

Described by G. T. Reason 11-9-53
Cavings in drilling mud. Cavings to 5" diameter consisting of hard, gray, slightly sandy shale, and hard, brown, very well cemented, fine grained, calcareous sand with occasional patches of gray, fine grained sand. No oil shows.

Newhall
(Weldon Canyon)

Core #27
7913-7923' Rec. 10'

Described by G. T. Benson

8½' Shale. Hard, dark gray-brown, silty, massive to poorly laminated, fractured and locally broken up. Fracture surfaces show slickensides. Measured dips 70° and 83°, usually near 85°.

1½' Breccia-Conglomerate. Granitic and metamorphic pebbles and granules up to 2" diameter in dark grayish brown shale matrix. Pebbles angular to subrounded. Few fractures show slickensides. No oil shows.

Core #28
6000-6011' Rec. 11'

Described by W. S. King

Silty shale, medium to dark gray with brown cast, firm to very hard, well bedded, banded with very thin to 1/4" thick streaks medium and dark gray. Locally very silty. Greater portion of core broken into large angular fragments with slickensided surfaces. Occasional slicked fracture surfaces covered with calcite. One fracture contains 1/4" thick zone of black crumbly gouge. Rare mega fossil fragments, very rare microfossils (?). Good 79° to 84° dips. No shows.

FORM 109-D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 153-1360

Mr. R L Jackson Los Angeles 15 Calif. November 18 1953
Long Beach 1 Calif.
Agent for THE TEXAS CO

DEAR SIR:

Operations at your well No. "Eadie" 1 Sec. 23, T. 3 N, R. 16 W, S B B. & M., Newhall Field, in Los Angeles County, were witnessed by J. F. Foster, Inspector, representative of the supervisor, on November 13, 1953. There was also present E. Ballard, Drilling Foreman; M. Honeycutt, Drilling Foreman.

Casing Record 11-3/4" cem. 500'. T.D. 8011', plugged with cement 850'-766', 530'-400', and 15'-5'.

Junk None

The operations were performed for the purpose of witnessing the plugging operations in the process of abandonment.

The inspector arrived at the well at XXXX and Mr. XXXXX reported:

INSPECTOR G. J. BORKOVICH VISITED THE WELL FROM 7:50 - 8:20 P.M., NOVEMBER 12, 1953, AND MR. BALLARD REPORTED:

1. A 9-7/8" rotary hole was drilled from 500' to 8000'; an 8-1/2" rotary hole, 8000'-8011'.
2. On November 12, 1953, 75 sacks of cement was pumped into the hole through 4-1/2" drill pipe hanging at 850', filling to 766'.

THE INSPECTOR NOTED:

1. The cement plug at the reported depth of 766' supported 7 points of the weight of the drill pipe.
2. The driller's tally showed 766' of drill pipe in the hole.

THE INSPECTOR ARRIVED AT THE WELL AT 1:30 P.M. AND MR. BALLARD REPORTED:

1. On November 13, 1953, 75 sacks of cement was pumped into the hole through 4-1/2" drill pipe hanging at 530'.
2. The top of the cement was found at 400'.
3. A bridging plug of paper sacks was placed 10' below the top of the 11-3/4" casing.
4. On November 13, 1953, 7 sacks of cement was poured into the hole.

THE INSPECTOR NOTED THAT the top of the cement filled to the top of the 11-3/4" casing, which is 5' below the surface of the ground.

The test was completed at 1:45 p.m.

THE PLUGGING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

JFF:OH

cc Company

Orig Mr R F Cory

R. D. BUSH
State Oil and Gas Supervisor

By R. W. Walling Deputy

82547 7-53 17,850 ② SPO

FORM 111 (1-49)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 153-1402

Los Angeles 15 Calif. November 18 19 53

Mr. R L Jackson

Long Beach Calif.

RECEIVED
NOV

Agent for THE TEXAS CO

Dear Sir:

Your proposal to abandon Well No. "Eadie" 1,

Section 23, T. 3 N., R. 16 W., S B B. & M., Newhall Field, Los Angeles County,

dated Nov. 16 19 53, received Nov. 17 19 53, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE
The base of the fresh waters as indicated by the electric log is at 800'.

THE NOTICE STATES
"The present condition of the well is as follows:
1. Total depth.
8011
2. Complete casing record.
11-3/4", 54#, J-55 casing cemented solid at 500'.

3. Last produced. Prospect well, no commercial showings."

PROPOSAL
"The proposed work is as follows:
1. Place cement plug 850' to 766', Division of Oil and Gas to witness top.
2. Place cement plug 530' to 400'.
3. Place 10 lineal feet of cement at surface in the 11-3/4" casing. Division of Oil and Gas to witness.
4. Cap with steel plate and abandon."

DECISION
THE PROPOSAL, COVERING WORK ALREADY COMPLETED IN ACCORDANCE WITH PRIOR AGREEMENT, IS APPROVED.

FRK:OH

F/G

Orig Mr R F Cory

cc Company

R. D. BUSH
State Oil and Gas Supervisor

Blanket bond.

By R. H. Nelling Deputy

FORM 108. 5/613 2-52 20M ⓔ SPO

DIVISION OF OIL AND GAS
RECEIVED
NOV 17 1953
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin; one copy only

Santa Paula Calif. November 16, 19 53

DIVISION OF OIL AND GAS

Los Angeles, Calif.

In compliance with Secs. 3228, 3229, 3230, 3231 and 3232, Ch. 93, Stat. 1939, notice is hereby given that it is our intention to abandon well No. Eadie #1

Sec. 23, T. 3N, R. 16W, S.B. B. & M. (Weldon Canyon) Field,

Los Angeles County, commencing work on the 12th day of November 19 53

The present condition of the well is as follows:

1. Total depth.
   8011
2. Complete casing record.
   11¾", 54#, J-55 casing cemented solid at 500'.

3. Last produced. Prospect well, no commercial showings
   (Date) (Net oil) (Gravity) (Cut)

The proposed work is as follows:

1. Place cement plug 850' to 766', Division of Oil and Gas to witness top.
2. Place cement plug 530' to 400'.
3. Place 10 lineal feet of cement at surface in the 11¾" casing. Division of Oil and Gas to witness.
4. Cap with steel plate and abandon.

The Texas Company
(Name of Operator)

By R.F.Cory-Dist.Petr.Engineer

WWK-UFB
TWB-IF-File

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

FORM 109-D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 153-1105

Mr R L Jackson
Mr P O Box 320
Long Beach Calif.
Agent for THE TEXAS CO

Los Angeles 15 Calif. September 16 19 53

PROSPECT WELL

DEAR SIR:

Operations at your well No. "Eadie" 1 Sec. 23, T. 3 W, R. 16 W, S B B. & M., Newhall Field, in Los Angeles County, were witnessed by G. J. Borkovich, Inspector on September 8, 19 53. There was also present E. Ballard, Drilling Foreman; H. R. Dixon, Driller.

Casing Record 11-3/4" cem. 503'. T.D. 3035'. | Junk None

The operations were performed for the purpose of inspecting blowout prevention equipment and installation.

The inspector arrived at the well at 12:45 p.m. and Mr. Ballard reported:

1. A 17-1/2" rotary hole was drilled from the surface to 503'.
2. On August 19, 1953, 11-3/4", 54 lb. casing was cemented at 503' with 450 sacks of cement.
3. Cement did not return to the surface.
4. On August 19, 1953, 150 sacks of cement was pumped down around the 11-3/4" casing through 2" pipe hanging at 200'.
5. A 9-7/8" rotary hole was drilled from 503' to 3035'.

THE INSPECTOR NOTED THAT THE WELL WAS EQUIPPED WITH THE FOLLOWING BLOWOUT PREVENTION EQUIPMENT:

1. A Shaffer double cellar control gate for closing in the well with the drill pipe out of the hole, and for closing around the 4-1/2" drill pipe.
2. A Hydril blowout preventer for closing around the 4-1/2" drill pipe.
3. The controls for the above equipment were located outside the derrick.
4. A 2" mud fill-up line with a 2" high pressure stopcock into the 11-3/4" casing below the above equipment.
5. A high pressure stopcock on the kelly.

The inspection was completed at 1:15 p.m.

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

GJB:OH

cc The Texas Co (Attn Mr T W Bell)
929 South Broadway
LOS ANGELES 15

Orig Mr R F Cory Dist Engineer
The Texas Co
Box 510
Santa Paula California

R. D. BUSH
State Oil and Gas Supervisor

By R. V. Walling Deputy

10/15/53 Kewen-Sawyer
TD 6800'
Run tools and set 2900' plug
Will circulate to 2900'
No shoot as per
Lombard.
850-750 Sac. thru tbg.
550-450 Co
10 sac. plug
Ok

82547 7-53 17,850 ② SPO

FORM 111 (1-49)

E

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 153-941

Los Angeles 15 Calif. July 22 1953

Mr. S L Jackson
P O Box 320
Long Beach Calif.

(2)

Agent for THE TEXAS CO

DEAR SIR:

Your proposal to drill Well No. "Madie" 1,

Section 23, T. 3 N., R. 16 W., S B B. & M., Newhall Field, Los Angeles County,

dated July 14 19 53, received July 15 19 53, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES

"Location of well: 2425.28 feet South along section line and 1482.21 feet West at right angles to said line from the Northeast corner of section 23, T. 3 N., R. 16 W., S.B.B. &M.
Elevation of ground above sea level 2125 feet Ground datum. (Topo)
All depth measurements taken from top of Kelly Bushing which is 12 feet above ground."

PROPOSAL

"PROPOSED CASING PROGRAM

Size of Casing Inches A.P.I.	Weight	Grade and Type	Top	Bottom	Cementing Depths
11 3/4"	47#	J-55	Surface	500	500' w/500 sacks

Intended zone or zones of completion:
It is understood that if changes in this plan become necessary we are to notify you before running casing."

DECISION

THE PROPOSAL IS APPROVED PROVIDED THAT

1. A supplementary proposal shall be filed with this Division prior to running any additional casing, or placing any cement plugs. Additional requirements will be specified at that time.
2. Blowout prevention equipment, sufficient to provide a complete close-in of the well under pressure at any time, shall be installed and approved by this division.
3. THIS DIVISION SHALL BE NOTIFIED TO INSPECT the installed blowout prevention equipment before drilling below 1000'.

ERMA:OH

cc The Texas Co (Attention Mr T W Bell)
929 South Broadway
LOS ANGELES 15

Orig Mr R F Cory Dist Engineer
The Texas Co
Box 510
Santa Paula California

R. D. BUSH
State Oil and Gas Supervisor

Blanket bond.

By E. H. Meisser Deputy

FORM 105

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JUL 15 1953
LOS ANGELES, CALIFORNIA

E

037-06077

Notice of Intention to Drill New Well

This notice and surety bond must be filed before drilling begins

7

Santa Paula Calif. July 14 1953

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division III, Article 4, Public Resources Code, notice is hereby given that it is our intention to commence the work of drilling well No. "Eadie" #1, Sec. 23, T. 3 N, R. 16 W, S.B. B. & M., ~~Weldon Canyon~~ Newhall Field, Los Angeles County.

Legal description of lease

(Attach map or plat to scale)

Location of Well: 2425.28 feet South (Direction) along section line ~~property~~ and 1482.21 feet West (Direction) at right angles to said line from the Northeast ~~property~~ corner of section 23, T. 3 N., R. 16 W., S.B.B.&M.

Elevation of ground above sea level 2125 feet Ground datum. (Topo)

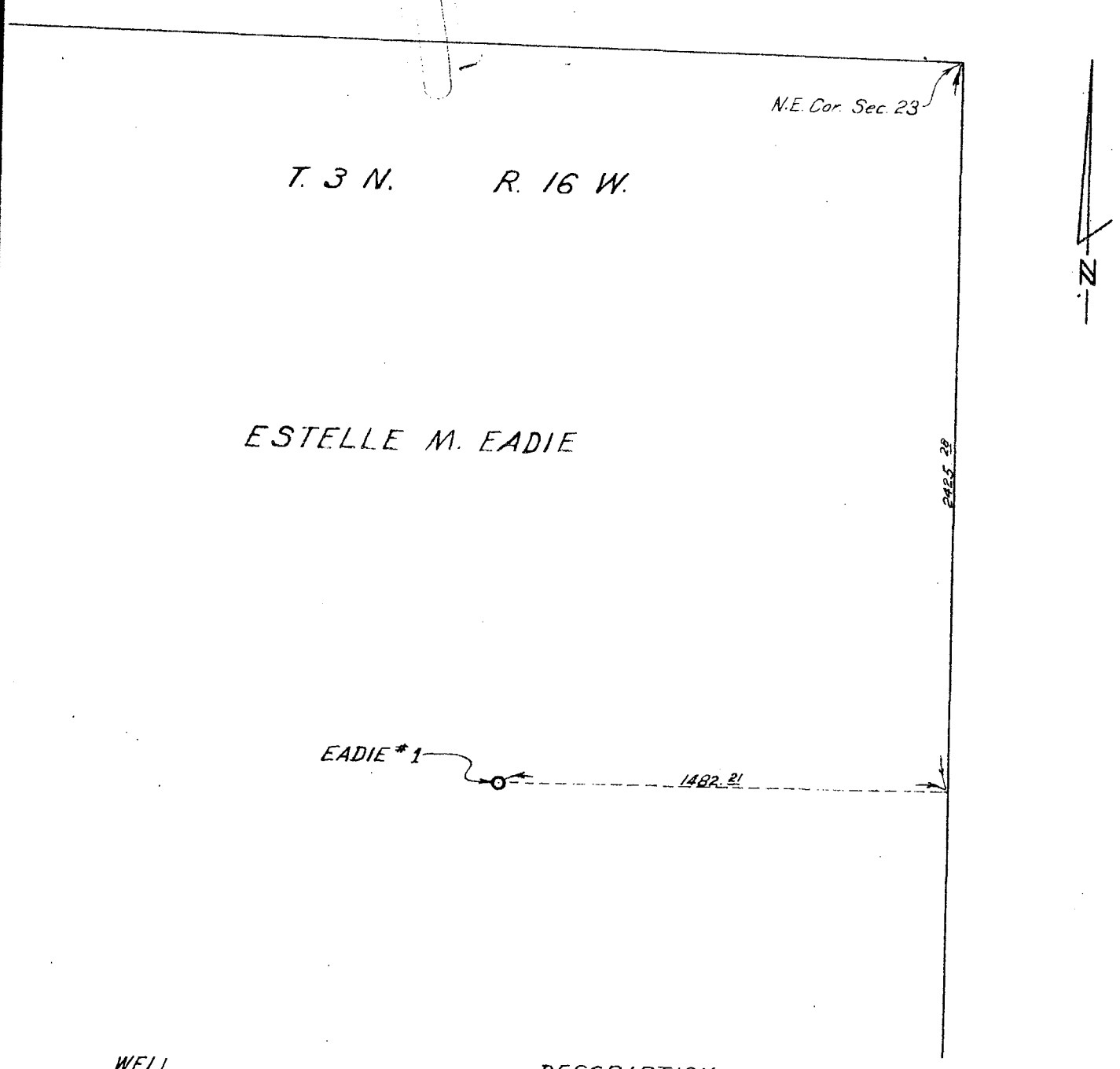
All depth measurements taken from top of Kelly Bushing (Derrick Floor, Rotary Table or Kelly Bushing) which is 12 feet above ground.

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
11 3/4"	47#	J-55	Surface	500	500' W/500 sacks

Intended zone or zones of completion: Prospect Well

| | | | | |



WELL	DESCRIPTION
Eadie # 1 F.B. C.B.	2425.28 ft. S'ly along the E. line of Sec. 23, T.3N., R.16W. S.B.B.&M., from the N.E. cor. thereof, thence W'ly at right angles thereto 1482.21 ft.

DIVISION OF OIL AND GAS
RECEIVED
JUL 2 81953
SANTA PAULA, CALIFORNIA

1

REVISED TO	BY

Weldon Can. Area POOL
Ventura DISTRICT

THE TEXAS CO.
PACIFIC COAST DIVISION
ENGINEERING OFFICE — PRODUCING DEP'T
SIGNAL HILL, CALIF.

APPROVED:
DATE 7-15-53

DR. BY W.E.K.
TR. BY
CH. BY
SCALE: 1" = 500'
DWG. NO. 2C-271-7197

LOCATION EADIE #1
L.A. COUNTY

PRINTED ON CLEARPRINT NO. 1000-H

T.W.B. - H.F.A. - G.R.C.[2] - J.L.S.[5] - R.L.P. - A.A.A. - G.M.R.[2]

October 24, 2018
File No. 01208033.29

Ms. Shikari Nakagawa-Ota, REHS
Chief Environmental Health Specialist
Local Enforcement Agency (LEA) Program
Los Angeles County Department of Public Health
5050 Commerce Drive
Baldwin Park, California 91706

Subject: **Perimeter Migration Monitoring Well 205R, Sunshine Canyon Landfill, 14747 San Fernando Road, Sylmar, California 91342 (SWIS Facility 19-AA-2000)**

Dear Ms. Nakagawa-Ota:

This letter has been prepared by **SCS Engineers (SCS)** on behalf of Sunshine Canyon Landfill (SCL), in response to increasing levels of methane (CH_4) identified in perimeter migration monitoring well 205R located at SCL (Note: we refer to each monitoring location as a well, and each screened interval at a given location as a probe). While methane levels identified in the deeper probes within this well are still below the regulatory threshold of 5 percent by volume, they have been increasing in concentration over the past four years, and have slightly exceeded 3% by volume.

BACKGROUND

SCL is an open, active canyon landfill operation, with 363 permitted acres, and accepts approximately 8,000 tons of municipal solid waste (MSW) per day. SCL is situated at the eastern end of the Santa Susana Mountains and is bounded to the west and south by mountains and open space, to the north by mountains and Interstate 5, and to the east by San Fernando Road and Interstate 5. The location of SCL is provided on **Figure 1**, **Attachment A**.

Landfill gas (LFG) migration from SCL is currently controlled via an LFG collection and control system (GCCS) consisting of a network of approximately 1,008 LFG extraction points inter-connected to a total of six destruction devices, including 5 enclosed flares and a turbine power plant. The GCCS operates continuously, with August 2018 average flow rate of approximately 20,500 standard cubic feet per minute (scfm) and a methane concentration approximately 43% by volume.

LFG migration from SCL is monitored by a network of 30 migration monitoring wells located around the perimeter of SCL. Within each well, there are multiple probes located at multiple depths, based on surface elevation, depth to groundwater, and base of waste elevation; for a total of 132 probes, within 30 wells. The perimeter migration monitoring well network at SCL is provided on **Figure 2**, **Attachment A**.

DISCUSSION

Monitoring Activities

Since March 2013, concentrations of CH_4 in the deeper probes (B-E) in well P-205R have ranged from non-detect to 3.4 percent by volume (May 2018). Details on CH_4 detections within the five probes within well P-205R are presented in **Table 1**, below.

Table 1. Well P-205R Probe Methane Details

Probe Designation	Probe Depth (feet bgs)	Screened Interval (feet bgs)	Methane Detections (% by volume)		
			Min	Max	Most Recent[1]
A	11	6-11	ND	ND	ND
B	25	20-25	ND	1.5	0.7
C	39	33-39	0.2	2.0	1.8
D	53	48-53	0.8	3.4	2.8
E	67	63-67	ND	2.9	1.6

bgs = below ground surface
ND = Non-detect
[1]Most recent monitoring event is September 2018.

Graphs of gas composition and pressures detected in probes A-E within well P-205R from 2014 to present are presented in **Figures 3a through 3e, Attachment A**, respectively. **Attachment B** contains well P-205R probe data from 2014 to present.

As shown on **Figure 3d**, probe P-205R(D) has the highest concentration of CH_4 detected in this well, consistently over time. **Figure 3d** also shows significantly elevated carbon dioxide (CO_2) in relation to CH_4, which is not generally indicative of the composition of landfill gas (LFG). For example, the typical ratio of CH_4 to CO_2 in LFG ranges from 1.0 to 1.2. However, the data for probe P-205R(D) have demonstrated ratios ranging from 0.05 to 0.07 in data from 2018. **Figure 3d** also shows an inverse relationship between CO_2 and Balance Gas, which is assumed to be nitrogen. Nitrogen is typically found at concentrations 2 to 4 times lower than CO_2 in LFG, but in this case, nitrogen is present at concentrations higher than CO_2.

Gas Sample Analysis

In response to slightly elevated CH_4 concentrations identified in probe P-205R(D), gas samples were collected from select probes within well P-205R, as well as other perimeter wells at SCL in January, February, March, June, July, August, and September of 2018. A summary of the analytical data from Probe P-205(D) is presented in **Table 2**, below. Copies of all analytical data from samples collected in 2018 are provided in **Attachment C**.

Table 2. Probe P-205R(D) Analytical Results - 2018

Analyte	01/25	02/15	03/29	06/29[1]	07/26	08/23	09/27
Concentration in % by volume							
Methane	2.74	2.73	2.89	2.96	2.74	19.8	2.69
Carbon Dioxide	46.4	47.5	47.3	47.6	47.2	45.2	47.5
Concentration in parts per million by volume (ppmv)							
Ethane	<5	<5	<5	<5	<5	<5	<5
TGNMO[2]	19.5	<5	17.9	10.3	14.7	7.41	12.1
Hydrogen Sulfide	0.42	0.97	0.54	<0.2	<0.1	<0.1	<0.1
Volatile Organic Compounds (VOCs) Concentration in parts per billion by volume (ppbv)							
Benzene	7.52	6.64	5.95	3.95	5.14	5.26	4.20
Dichlorobenzenes[3]	<12	<3	<6	<0.6	3.39	3.33	3.69
Toluene	<8	2.23	<4	1.22	2.55	2.34	2.71
m+p Xylenes	<8	1.84	<4	1.01	2.53	1.89	1.57
o-Xylene	<8	<1.4	<4	0.78	<1.4	<1.4	<1.4
TO-15 Analysis (concentration in ppbv)[1]							
Acetone	NA	NA	NA	63.0	NA	NA	NA
Isopropyl Alcohol	NA	NA	NA	108	NA	NA	NA
n-Hexane	NA	NA	NA	0.85	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	0.69	NA	NA	NA

[1]TO-15 analysis requested on June sample. More analytes and lower detection limits provided.
[2]TGNMO – Total Gaseous non-Methane, non-Ethane organics reported as ppmvC.
[3]Total amount containing meta, para, and ortho isomers.
NA – Analyte not analyzed.

As shown in **Table 2**, the CH_4 and CO_2 results match what was identified from field monitoring of the probes. In addition, it should be noted that the only volatile organic compounds (VOCs) detected from probe samples are generally associated with petrogenic (e.g., hydrocarbon) sources, including benzene, toluene, xylenes, hexane, etc. Key LFG VOC indicators (e.g., vinyl chloride, freons, methylene chloride, and other halogenated compounds) were not detected in samples from P-205R, or any of the sample results provided in **Attachment C**. Ethane, which is a very common constituent in LFG, was also not found. These chemicals are commonly detected as the "leading edge" of any subsurface LFG plume, but were not found in the samples.

Nearby LFG Well Data

The closest LFG extraction wells to P-205R are CGW-915 and CGW-916, both approximately 215 feet northeast of well P-205R. These wells were installed in 2015 and have been under vacuum since installation. Gas composition and flow readings from these wells from late-July (selected to match the latest lab sample analysis date from probe P-205R[D]) and the most recent readings from these wells are presented in **Table 3**, below.

Table 3. Nearby LFG Well Measurements

Well Designation	Date of Reading	LFG Flow (scfm)	Gas Composition (% by volume)			
			CH_4	CO_2	O_2	Balance Gas
CGW-915	7/16/18	10	18.1	23.7	0.1	58.1
	10/10/18	4.2	26.1	29.5	0	44.4
CGW-916	7/24/18	1.6	27.1	30.9	0	42
	10/10/18	14.5	32.4	30.3	0	37.3

As shown in **Table 3**, both the July and October readings from the closest LFG wells to P-205 show CO_2 levels significantly lower than the levels detected in probe P-205R(D). The highest CO_2 reading from July (well CGW-916) is more than 20 percentage points lower than the CO_2 identified in the P-205R(D) sample from July (refer to **Table 2**).

Figure 4, Attachment A contains a graph of the CO_2 levels identified in the LFG extraction wells near P-205R (CGW-915 and CGW-916). As shown in **Figure 4**, With the exception of late-2017, CO2 levels from the LFG extraction wells have always been lower than the CO_2 levels identified in probe P-205R(D). This indicates that it is unlikely that the CO_2 identified in P-205R(D) originated from the landfill.

However, this point does not address the elevated CH_4 identified in probe P-205R(D), unless the CH_4 and CO_2 identified in probe P-205R(D) are interrelated. In order to verify that the CH_4 and CO_2 are interrelated, the CH_4 and CO_2 monitoring data from probe P-205R(D) were separated and re-graphed using a logarithmic scale. This graph is presented in **Figure 5, Attachment A**. As shown in **Figure 5**, variability in concentration is directly proportional for CH_4 and CO_2 within this probe, which indicates that the parameters are directly related. As such, if the CO_2 is not likely derived from LFG, then the CH_4 would not expected to be either.

Nearby Oil Wells

Due to the elevated CO_2; the lack of ethane, vinyl chloride, and other common LFG constituents in the samples analyzed from probe P-205R(D); and the presence of various petrogenic chemicals, additional research on possible petrogenic sources in the area of SCL was conducted. As shown in **Figure 2**, there are approximately 9 abandoned oil wells located either within, or in close proximity to SCL. Of these nine wells, the closest to well P-205R is Eadie #1. Records of this well obtained from the California Department of Oil, Gas and Geothermal Resources (DOGGR) are provided in **Attachment D**. A brief history this well is provided below.

Eadie #1

Exploratory oil well "Eadie 1" is located approximately 650 feet to the southwest of well P-205. Eadie 1 was drilled to a maximum depth of 8,011 feet below ground surface (bgs). Drilling was completed on November 11, 1953. Following electric logging of the hole, two concrete plugs were installed from 850 to 766 feet and 530 to 400 feet bgs. 10 feet of cement inside of an 11 and ¾ inch casing, with a welded steel plate were used to abandon the well on November 13, 1953. The capped well was at an elevation of approximately 2,132 feet above mean sea level (msl) at the time of abandonment.

In 1992, as part of the proposed expansion of SCL, eight oil wells were proposed for re-abandonment. The project was postponed until June 1997, when the upper 200 feet of Eadie #1 was overdrilled and 140 cubic feet of cement was added to the hole. Following abandonment activities, the well was cut off five feet below surface and covered with a steel plate. This would make the elevation of the top capped well approximately 2,127 feet msl and the elevation of the bottom of the cement plug approximately 1,932 feet msl, which is approximately 50 feet higher than the surface of well P-205R (surface elevation of well P-205R is 1,869 feet msl).

CONCLUSIONS

It appears that the low-level of CH_4 detected in well P-205R did not originate from the landfill. This conclusion is supported by the following observations:

1. Monitoring data for probes B-E in well P-205R show significantly elevated CO_2 (maximum value of 49.4 percent by volume in Probe P-205R[D]) associated with low-level CH_4 (maximum value of 3.4 percent by volume in Probe P-205R[D]). Laboratory data confirms both the low CH_4 and high CO_2 levels detected in probes B-E of well P-205R. These levels and ratios are not typical for LFG migration from a landfill.
2. CO_2 levels identified in probe P-205R(D) are higher than CO_2 levels identified in raw LFG from the closest LFG extraction wells (**Figure 4**).
3. The CH_4 identified in P-205R(D) is related to the elevated CO_2 identified in P-205R(D), as shown in **Figure 5** and are likely from the same source
4. With the exception of acetone and isopropyl alcohol, which are both typical lab contaminants, only petrogenic VOCs were identified in samples analyzed from P-205R(D). Other common "leading edge" contaminants in LFG were not detected.
5. There is an abandoned oil well located 650 feet to the southwest of P-205R that may be a potential source of methane and CO_2. The fact that the probes within P-205R are located at a depth that is below the concrete plug for this well, makes this point more significant.

RECOMMENDATIONS

Based on off-site impact from petrogenic sources, SCL is requesting removal of the AOC threshold of 3% by volume for probes within perimeter migration monitoring well P-205R as well as modification of sampling frequency for this probe to quarterly. Additionally, SCL is requesting the opportunity to evaluate the origin of methane should the level in the P-205R probes ever exceed the 5% by volume threshold prior to the issuance of any regulatory violations.

CLOSING

If you have any questions in regard to this submittal, please contact either of the undersigned at (562) 426-9544.

Sincerely,

Raymond H. Huff, REPA
Vice President
SCS Engineers

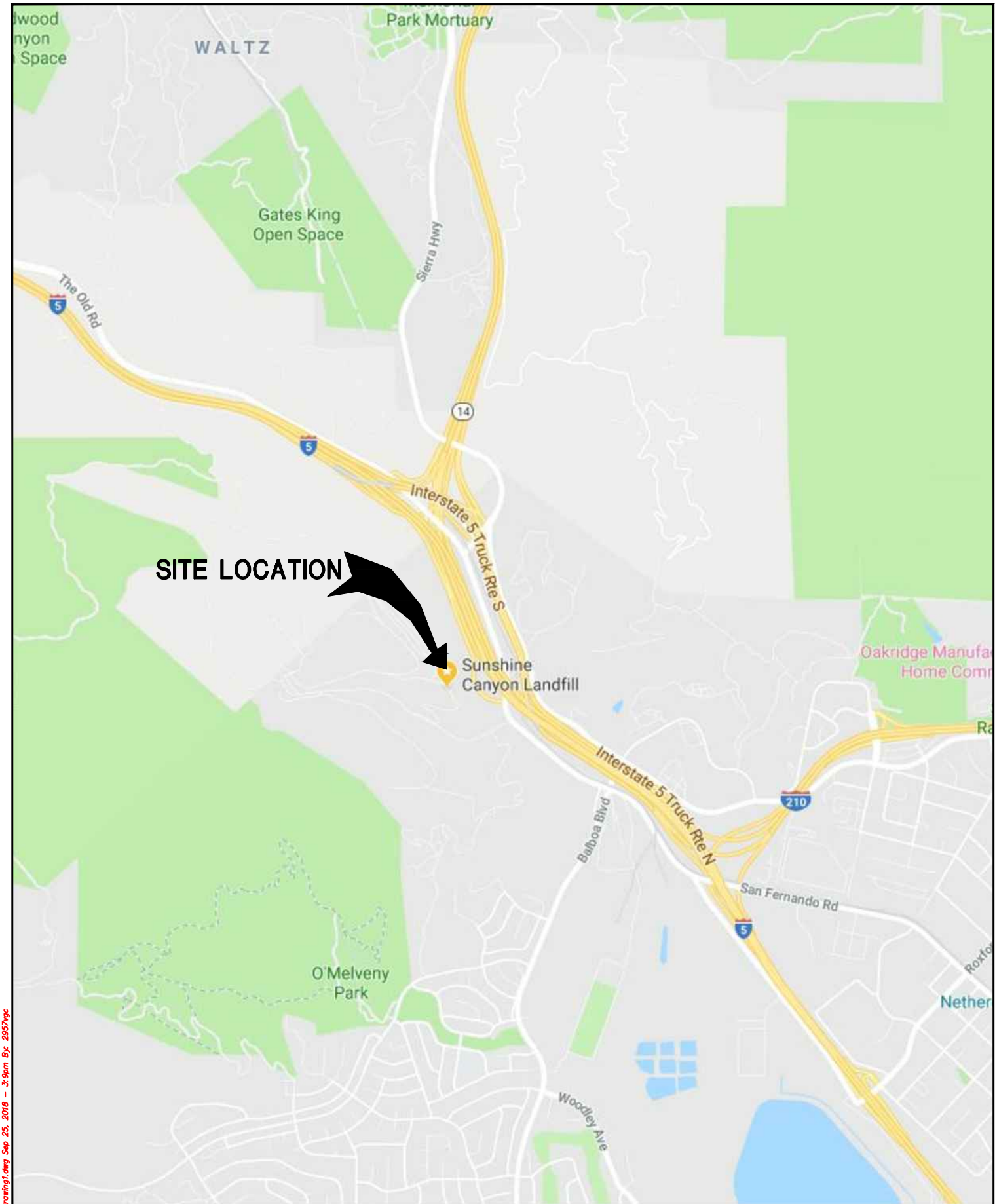
Patrick S. Sullivan, REPA, CPP, BCES
Senior Vice President
SCS Engineers

attachments

cc: Josh Mills, SCL
Chris Coyle, SCL

ATTACHMENT A

FIGURES



C:\Users\2957vgc\Documents\Drawing1.dwg Sep 25, 2018 - 3:9pm By: 2957vgc

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO.	DWN. BY:	ACAD FILE:
---	V. CHEW	---
DSN. BY:	CHK. BY:	APP. BY:
---	---	---

CLIENT:

SHEET TITLE: **SITE LOCATION**

PROJECT TITLE: **SUNSHINE CANYON LANDFILL SYLMAR, CA**

DATE: **09-25-2018**

SCALE: **N.T.S.**

DRAWING NO. **FIG 1**

Figure 2 - Perimeter Well Location Map Showing Abandoned Oil Wells

Sunshine Canyon Landfill, Sylmar, California



Figure 3a. Well P-205R(A) Readings from 2014 to Present.

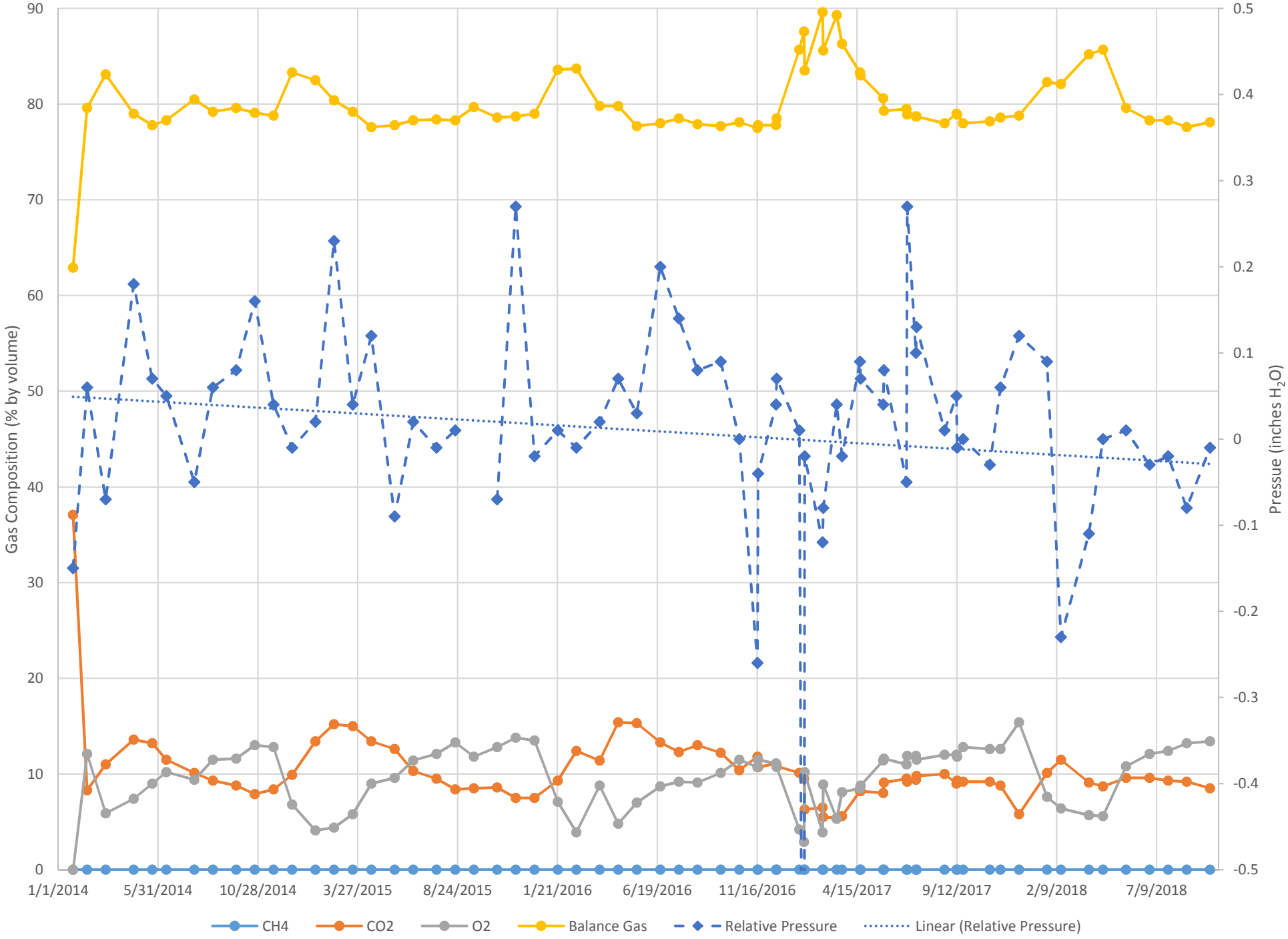


Figure 3b. Well P-205R(B) Readings from 2014 to Present.

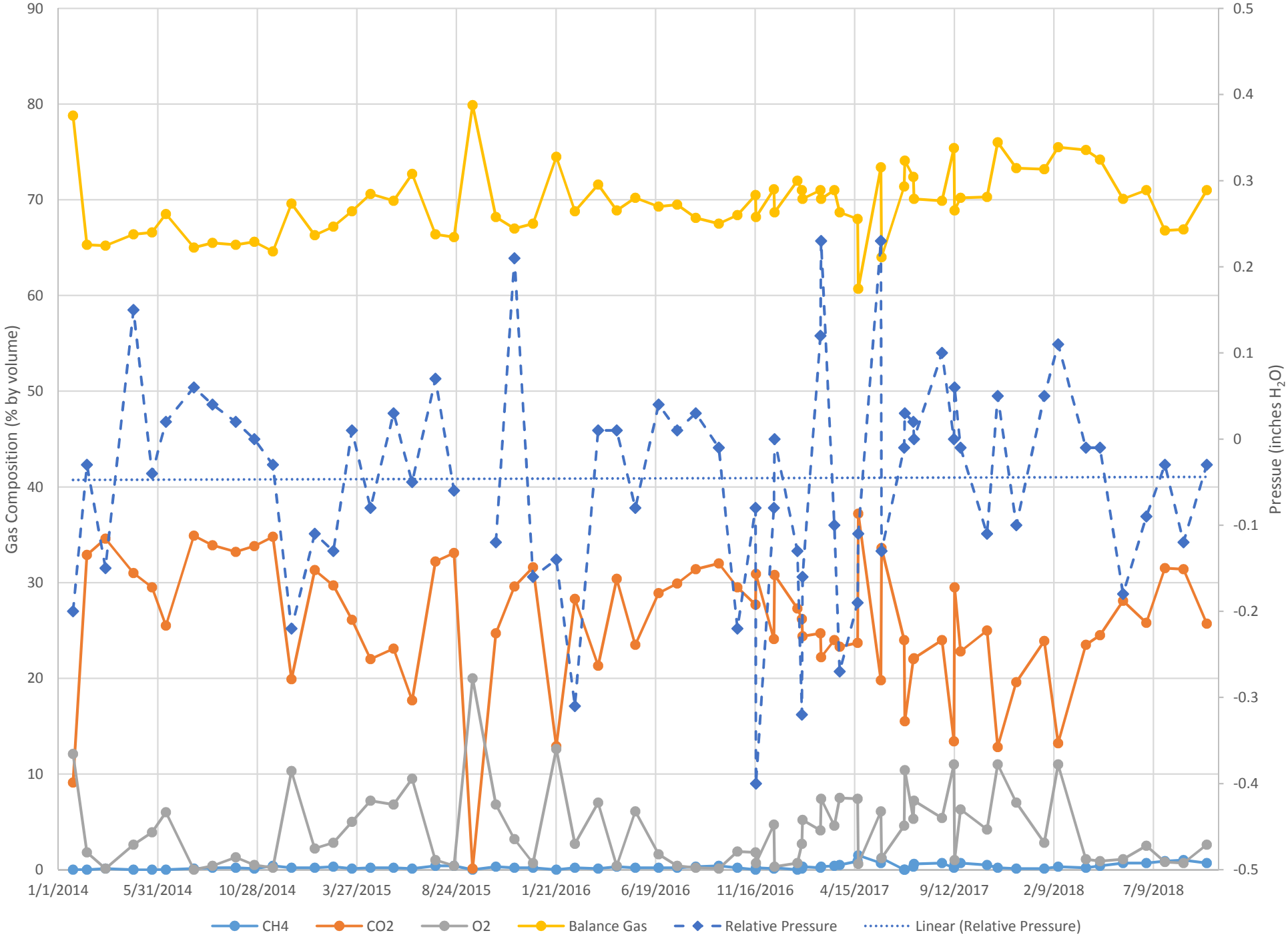


Figure 3c. Well P-205R(C) Readings from 2014 to Present.

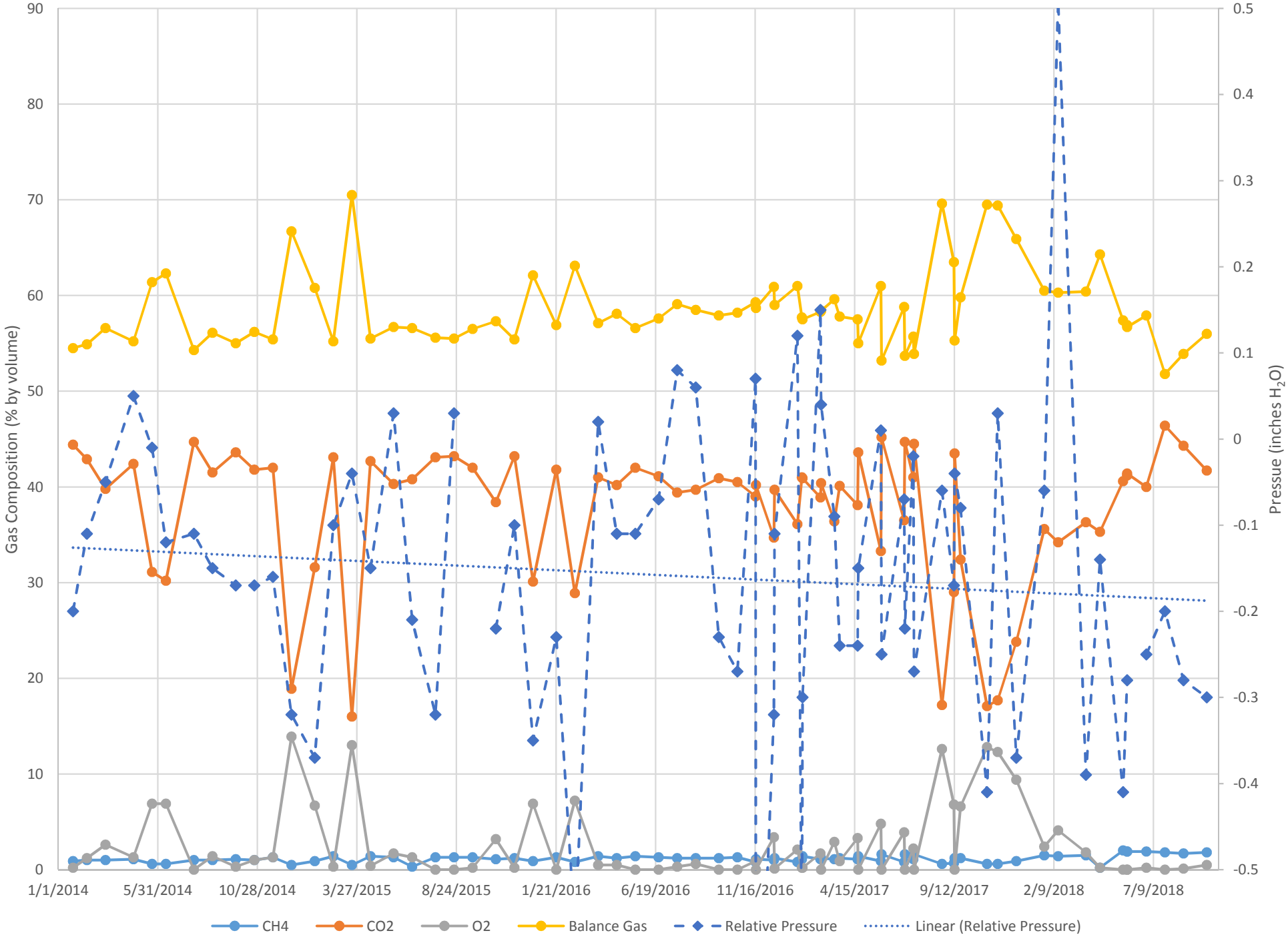


Figure 3d. Well P-205R(D) Readings from 2014 to Present.

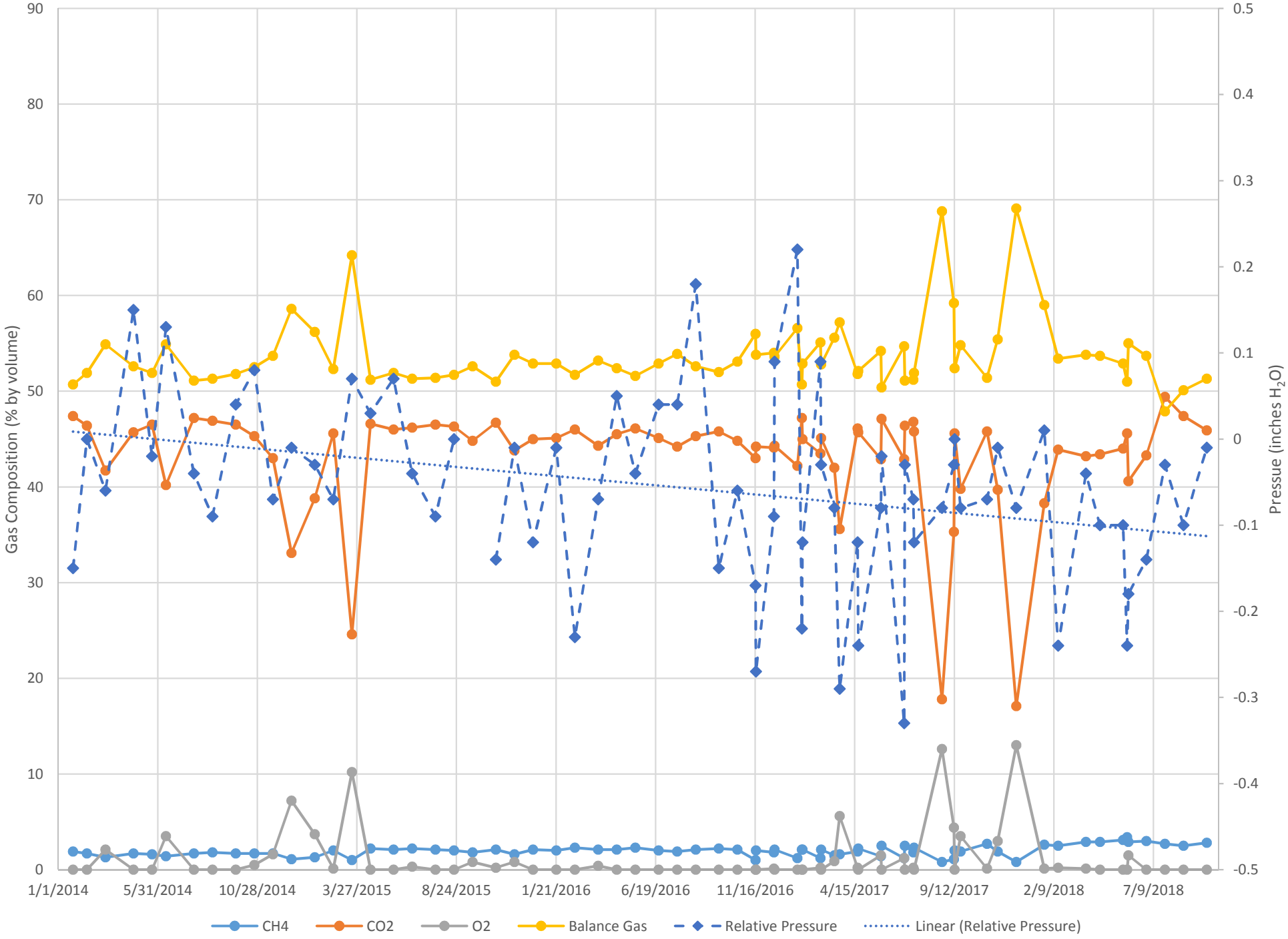


Figure 3e. Well P-205R(E) Readings from 2014 to Present.

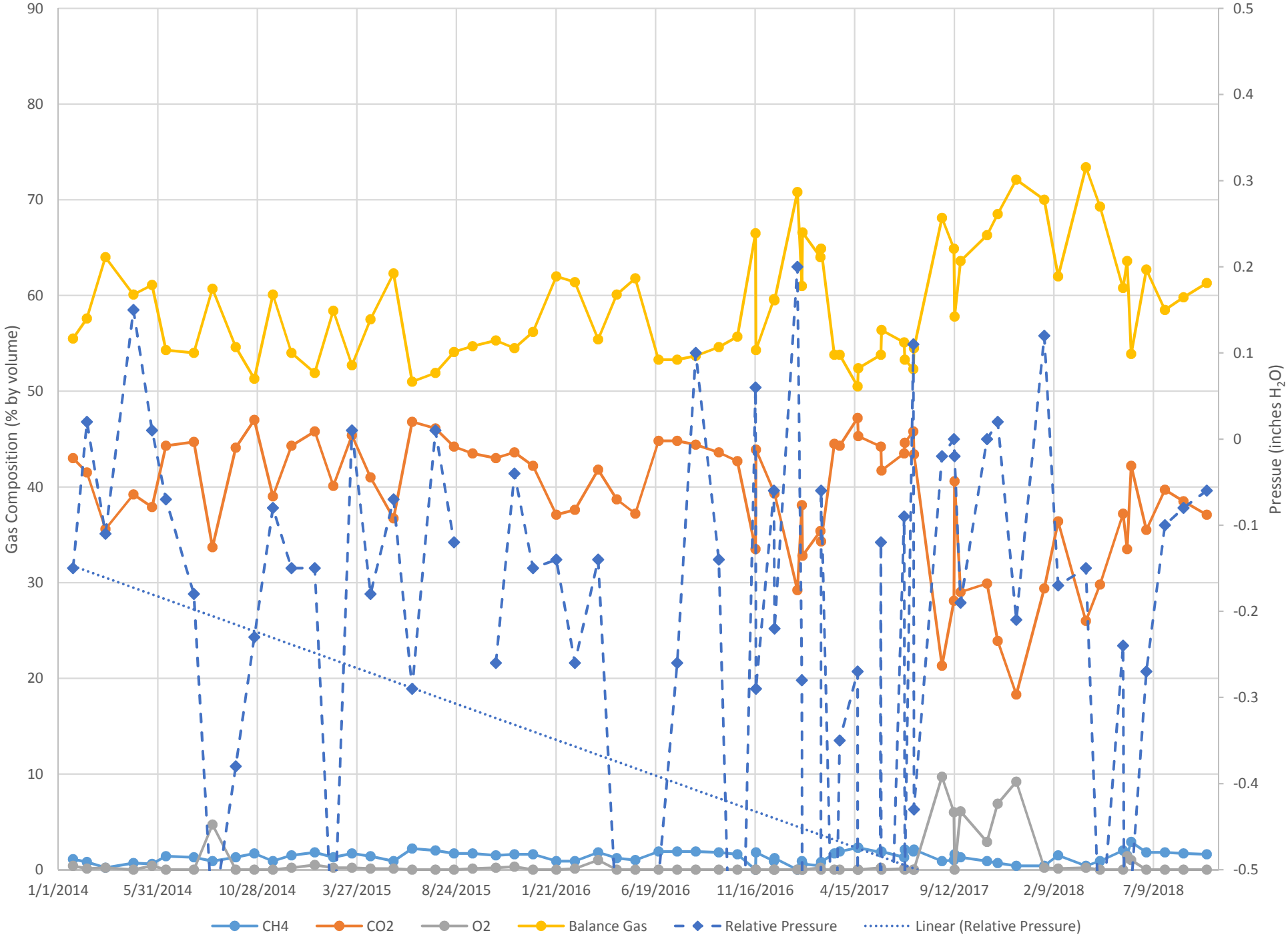


Figure 4. Carbon Dioxide Level Comparison.

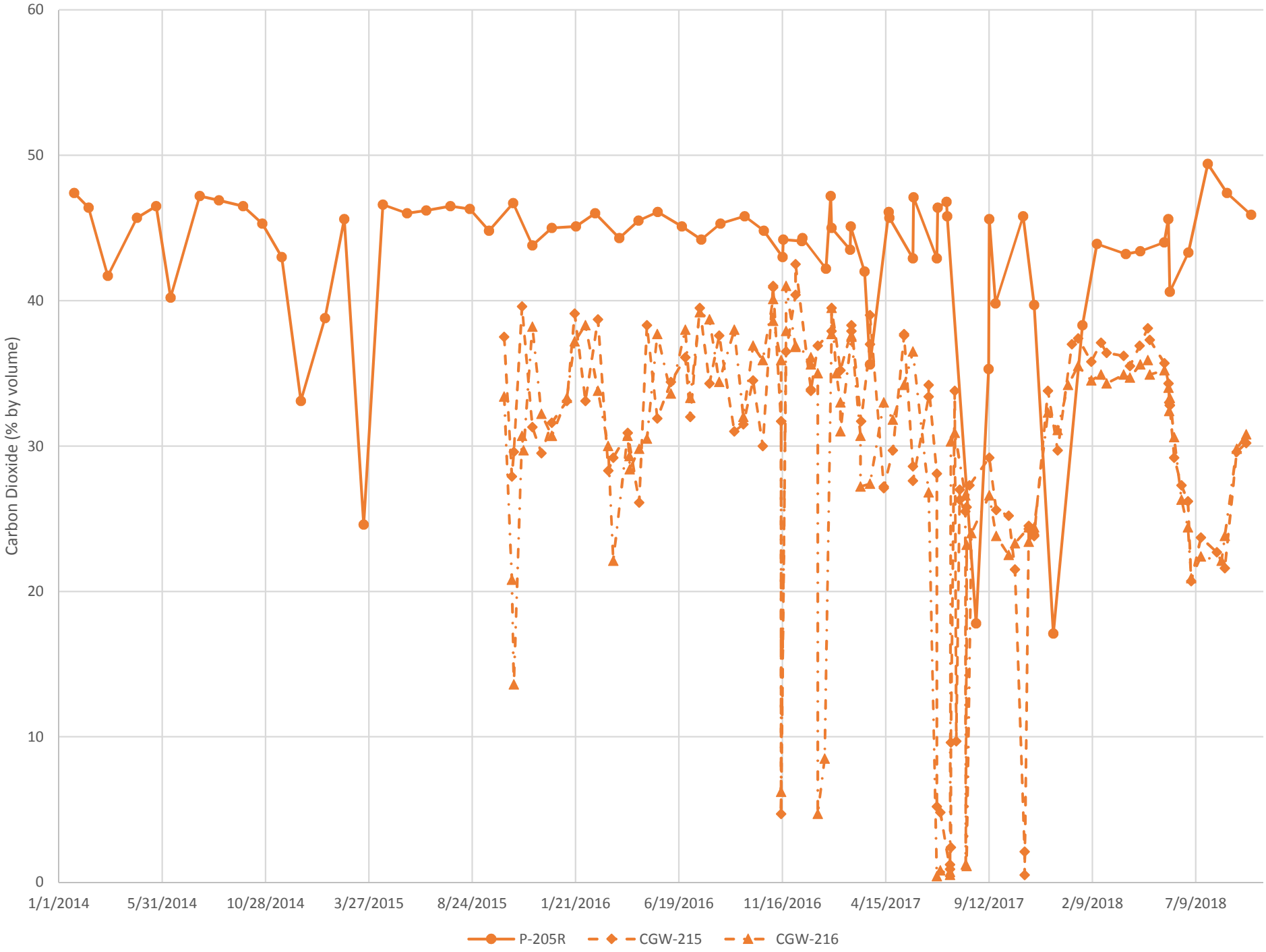
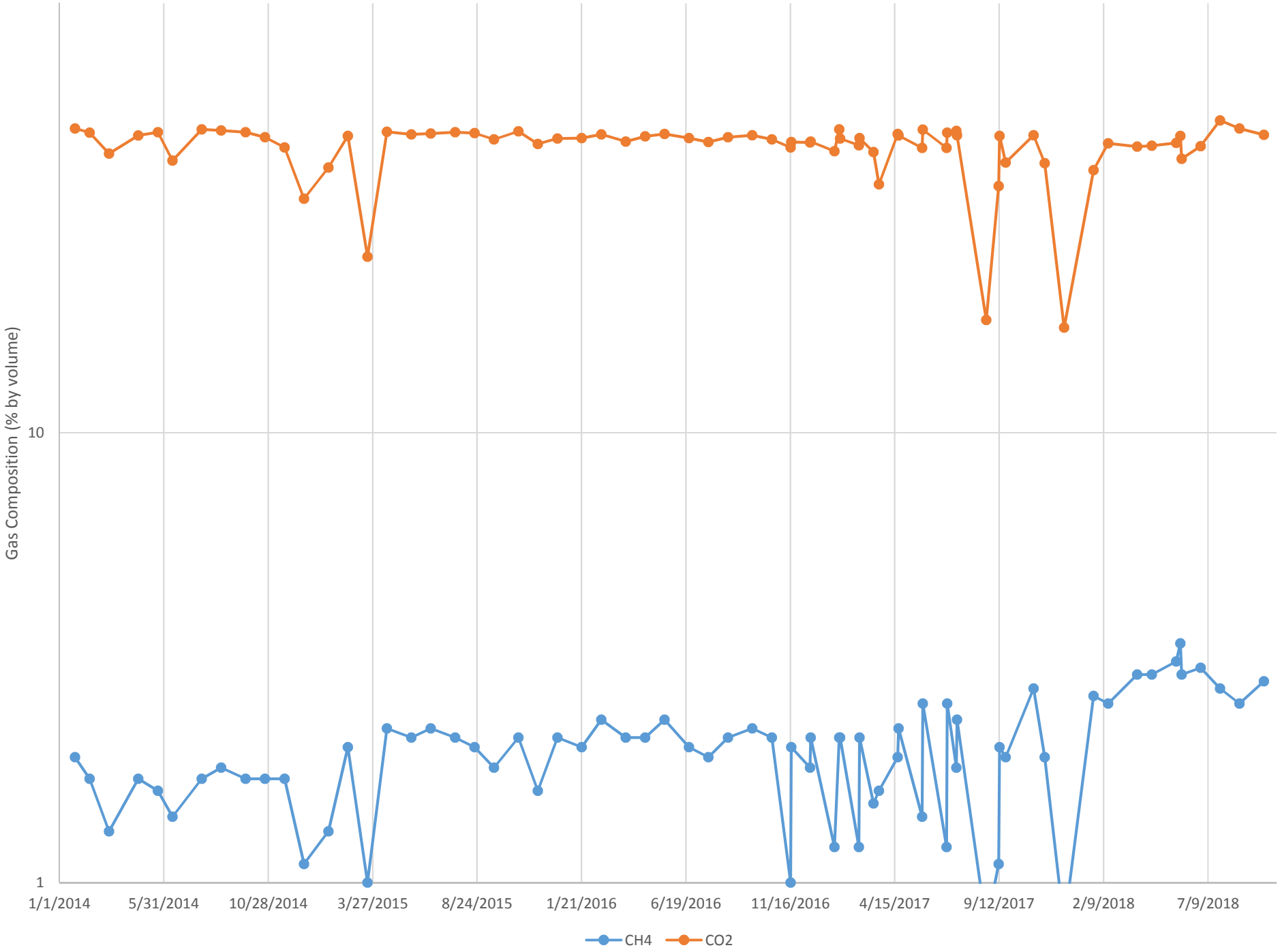


Figure 5. Well P-205R(D) Readings from 2014 to Present - Logarithmic Scale.



ATTACHMENT B

PROBE DATA

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/23/2014 9:20:00 AM	0	37.1	0	62.9	-0.15	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/13/2014 10:23:00 AM	0	8.3	12.1	79.6	0.06	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/13/2014 9:12:00 AM	0	11	5.9	83.1	-0.07	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/24/2014 9:49:00 AM	0	13.6	7.4	79	0.18	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/22/2014 9:56:00 AM	0	13.2	9	77.8	0.07	27.93	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/12/2014 9:45:00 AM	0	11.5	10.2	78.3	0.05	27.91	ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/24/2014 10:48:00 AM	0	10.1	9.4	80.5	-0.05	27.84	Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/21/2014 9:51:00 AM	0	9.3	11.5	79.2	0.06	27.92	ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/25/2014 9:51:00 AM	0	8.8	11.6	79.6	0.08	27.9	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	10/23/2014 9:50:00 AM	0	7.9	13	79.1	0.16	27.99	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/20/2014 9:49:00 AM	0	8.4	12.8	78.8	0.04	28.04	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:21 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/18/2014 10:08:00 AM	0	9.9	6.8	83.3	-0.01	28.28	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/22/2015 10:38:00 AM	0	13.4	4.1	82.5	0.02	28.33	ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/19/2015 9:55:00 AM	0	15.2	4.4	80.4	0.23	28.21	Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/19/2015 10:23:00 AM	0	15	5.8	79.2	0.04	28.13	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/16/2015 9:46:00 AM	0	13.4	9	77.6	0.12	28.15	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/21/2015 9:28:00 AM	0	12.6	9.6	77.8	-0.09	28.04	ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/18/2015 9:11:00 AM	0	10.3	11.4	78.3	0.02	28.08	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/23/2015 9:23:00 AM	0	9.5	12.1	78.4	-0.01	28.11	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/20/2015 9:34:00 AM	0	8.4	13.3	78.3	0.01	28.01	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/17/2015 10:38:00 AM	0	8.5	11.8	79.7		27.99	ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	10/22/2015 10:32:00 AM	0	8.6	12.8	78.6	-0.07	28.01	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/19/2015 9:58:00 AM	0	7.5	13.8	78.7	0.27	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/17/2015 9:38:00 AM	0	7.5	13.5	79	-0.02	28.19	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/21/2016 9:32:00 AM	0	9.3	7.1	83.6	0.01	28.22	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/18/2016 9:39:00 AM	0	12.4	3.9	83.7	-0.01	28	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/24/2016 9:58:00 AM	0	11.4	8.8	79.8	0.02	28.12	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/21/2016 9:27:00 AM	0	15.4	4.8	79.8	0.07	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/19/2016 7:51:00 AM	0	15.3	7	77.7	0.03	27.94	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/23/2016 9:14:00 AM	0	13.3	8.7	78	0.2	27.98	ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/21/2016 9:36:00 AM	0	12.3	9.2	78.5	0.14	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/18/2016 8:48:00 AM	0	13	9.1	77.9	0.08	27.91	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/22/2016 7:53:00 AM	0	12.2	10.1	77.7	0.09	27.9	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	10/20/2016 8:06:00 AM	0	10.4	11.5	78.1	0	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/16/2016 1:12:22 PM	0	11.8	10.7	77.5	-0.26	27.87			11/16/2016 2:39:49 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/17/2016 8:06:00 AM	0	10.7	11.5	77.8	-0.04	27.99	ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/14/2016 8:18:09 AM	0	11.1	11.1	77.8	0.04	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/15/2016 7:54:00 AM	0	10.8	10.7	78.5	0.07	28.01	ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/18/2017 11:46:49 AM	0	10.1	4.2	85.7	0.01	28.14	BN	BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/25/2017 8:24:17 AM	0	9.5	2.9	87.6	-1.23	28.23	BN	BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/26/2017 9:25:00 AM	0	6.3	10.2	83.5	-0.02	28.27	ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/22/2017 8:05:15 AM	0	6.5	3.9	89.6	-0.12	28.12	BN	BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/23/2017 9:17:00 AM	0	5.5	8.9	85.6	-0.08	28.03	ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/15/2017 8:08:50 AM	0	5.4	5.3	89.3	0.04	28.14	BN	BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/23/2017 8:58:00 AM	0	5.6	8.1	86.3	-0.02	28.02	ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/19/2017 8:30:57 AM	0	8.2	8.5	83.3	0.09	28.13	BS	BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/20/2017 9:21:00 AM	0	8.2	8.8	83	0.07	28.08	ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/24/2017 9:28:53 AM	0	8	11.4	80.6	0.04	27.93	BN	BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/25/2017 9:39:00 AM	0	9.1	11.6	79.3	0.08	27.84	ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/28/2017 8:48:21 AM	0	9.5	11	79.5	-0.05	27.96	BS	BS	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/29/2017 9:48:00 AM	0	9.2	11.9	78.9	0.27	27.92	ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/12/2017 9:54:03 AM	0	9.4	11.9	78.7	0.1	28.06	BS	BS	7/14/2017 11:32:40 AM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/13/2017 8:38:00 AM	0	9.8	11.5	78.7	0.13	28.01	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/24/2017 10:05:00 AM	0	10	12	78	0.01	27.87	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/11/2017 10:40:03 AM	0	9	12	79	0.05	28.05	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/12/2017 11:45:40 AM	0	9.3	11.8	78.9	-0.01	28	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/21/2017 7:48:00 AM	0	9.2	12.8	78	0	27.83	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	10/31/2017 9:18:22 AM	0	9.2	12.6	78.2	-0.03	27.9	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	11/16/2017 9:43:00 AM	0	8.8	12.6	78.6	0.06	27.98	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	12/14/2017 9:23:00 AM	0	5.8	15.4	78.8	0.12	28.04	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	1/25/2018 11:02:06 AM	0	10.1	7.6	82.3	0.09	28.14			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	2/15/2018 10:48:05 AM	0	11.5	6.4	82.1	-0.23	28.2	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	3/29/2018 10:01:45 AM	0	9.1	5.7	85.2	-0.11	28.17			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	4/19/2018 9:55:31 AM	0	8.7	5.6	85.7	0	28.06			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	5/24/2018 7:41:37 AM	0	9.6	10.8	79.6	0.01				5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	6/28/2018 7:57:14 AM	0	9.6	12.1	78.3	-0.03	28.02			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	7/26/2018 8:01:50 AM	0	9.3	12.4	78.3	-0.02	28.11			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	8/23/2018 8:07:10 AM	0	9.2	13.2	77.6	-0.08				8/23/2018 1:06:39 PM
Sunshine Canyon Landfill	P00205RA	P-205RA	Active	9/27/2018 8:02:45 AM	0	8.5	13.4	78.1	-0.01		SD	SD	9/27/2018 10:32:54 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/23/2014 9:22:00 AM	0	9.1	12.1	78.8	-0.2	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/13/2014 10:26:00 AM	0	32.9	1.8	65.3	-0.03	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/13/2014 9:15:00 AM	0.1	34.6	0.1	65.2	-0.15	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/24/2014 9:51:00 AM	0	31	2.6	66.4	0.15	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/22/2014 9:57:00 AM	0	29.5	3.9	66.6	-0.04	27.95	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/12/2014 9:47:00 AM	0	25.5	6	68.5	0.02	27.91	ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/24/2014 10:50:00 AM	0.1	34.9	0	65	0.06	27.84	Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/21/2014 9:56:00 AM	0.2	33.9	0.4	65.5	0.04	27.92	ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/25/2014 9:53:00 AM	0.2	33.2	1.3	65.3	0.02	27.94	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	10/23/2014 9:52:00 AM	0.1	33.8	0.5	65.6	0	27.99	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/20/2014 9:52:00 AM	0.4	34.8	0.2	64.6	-0.03	28.05	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:22 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/18/2014 10:10:00 AM	0.2	19.9	10.3	69.6	-0.22	28.27	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/22/2015 10:40:00 AM	0.2	31.3	2.2	66.3	-0.11	28.33	ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/19/2015 9:58:00 AM	0.3	29.7	2.8	67.2	-0.13	28.22	Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/19/2015 10:27:00 AM	0.1	26.1	5	68.8	0.01	28.13	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/16/2015 9:48:00 AM	0.2	22	7.2	70.6	-0.08	28.14	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/21/2015 9:30:00 AM	0.2	23.1	6.8	69.9	0.03	28.03	ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/18/2015 9:13:00 AM	0.1	17.7	9.5	72.7	-0.05	28.07	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/23/2015 9:26:00 AM	0.4	32.2	1	66.4	0.07	28.1	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/20/2015 9:37:00 AM	0.4	33.1	0.4	66.1	-0.06	28.02	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/17/2015 10:43:00 AM	0	0.1	20	79.9		28	ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	10/22/2015 10:33:00 AM	0.3	24.7	6.8	68.2	-0.12	28	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/19/2015 9:59:00 AM	0.2	29.6	3.2	67	0.21	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/17/2015 9:40:00 AM	0.2	31.6	0.7	67.5	-0.16	28.19	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/21/2016 9:33:00 AM	0	12.9	12.6	74.5	-0.14	28.23	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/18/2016 9:41:00 AM	0.2	28.3	2.7	68.8	-0.31	28	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/24/2016 10:00:00 AM	0.1	21.3	7	71.6	0.01	28.11	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/21/2016 9:29:00 AM	0.3	30.4	0.4	68.9	0.01	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/19/2016 7:52:00 AM	0.2	23.5	6.1	70.2	-0.08	27.93	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/23/2016 9:16:00 AM	0.2	28.9	1.6	69.3	0.04	27.98	ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/21/2016 9:39:00 AM	0.2	29.9	0.4	69.5	0.01	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/18/2016 8:50:00 AM	0.3	31.4	0.2	68.1	0.03	27.92	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/22/2016 7:56:00 AM	0.4	32	0.1	67.5	-0.01	27.91	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	10/20/2016 8:08:00 AM	0.2	29.5	1.9	68.4	-0.22	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/16/2016 1:15:27 PM	0	27.7	1.8	70.5	-0.08	27.86			11/16/2016 2:39:49 PM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/17/2016 8:08:00 AM	0.2	30.9	0.7	68.2	-0.4	27.99	ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/14/2016 8:20:30 AM	0.1	24.1	4.7	71.1	-0.08	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/15/2016 7:56:00 AM	0.2	30.8	0.3	68.7	0	28.01	ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/18/2017 11:49:40 AM	0	27.3	0.7	72	-0.13	28.13	BN	BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/25/2017 8:27:24 AM	0.1	26.2	2.7	71	-0.32	28.23	BN	BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/26/2017 9:26:00 AM	0.3	24.4	5.2	70.1	-0.16	28.27	ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/22/2017 8:07:48 AM	0.2	24.7	4.1	71	0.12	28.12	BN	BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/23/2017 9:19:00 AM	0.3	22.2	7.4	70.1	0.23	28.03	ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/15/2017 8:11:31 AM	0.4	24	4.6	71	-0.1	28.14	BN	BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/23/2017 9:01:00 AM	0.5	23.3	7.5	68.7	-0.27	28.02	ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/19/2017 8:33:34 AM	0.9	23.7	7.4	68	-0.19	28.14	BS	BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/20/2017 9:26:00 AM	1.5	37.2	0.6	60.7	-0.11	28.08	ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/24/2017 9:31:16 AM	0.7	19.8	6.1	73.4	0.23	27.95	BN	BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/25/2017 9:45:00 AM	1.2	33.6	1.2	64	-0.13	27.85	ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/28/2017 8:50:55 AM	0	24	4.6	71.4	-0.01	27.97	BS	BS	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/29/2017 9:49:00 AM	0	15.5	10.4	74.1	0.03	27.92	ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/12/2017 9:56:41 AM	0.3	22	5.3	72.4	0.02	28.06	BS	BS	7/14/2017 11:32:40 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/13/2017 8:41:00 AM	0.6	22.1	7.2	70.1	0	28.01	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/24/2017 9:59:00 AM	0.7	24	5.4	69.9	0.1	27.89	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/11/2017 10:43:03 AM	0.2	13.4	11	75.4	0	28.05	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/12/2017 11:49:28 AM	0.6	29.5	1	68.9	0.06	28.03	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/21/2017 7:50:00 AM	0.7	22.8	6.3	70.2	-0.01	27.82	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	10/31/2017 9:21:25 AM	0.5	25	4.2	70.3	-0.11	27.9	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	11/16/2017 9:45:00 AM	0.2	12.8	11	76	0.05	27.97	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	12/14/2017 9:26:00 AM	0.1	19.6	7	73.3	-0.1	28.02	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	1/25/2018 11:05:21 AM	0.1	23.9	2.8	73.2	0.05	28.14			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	2/15/2018 10:51:05 AM	0.3	13.2	11	75.5	0.11	28.21	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	3/29/2018 10:05:06 AM	0.2	23.5	1.1	75.2	-0.01	28.16			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	4/19/2018 9:59:14 AM	0.4	24.5	0.9	74.2	-0.01	28.08			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	5/24/2018 7:47:02 AM	0.7	28.1	1.1	70.1	-0.18	28.16			5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	6/28/2018 8:01:09 AM	0.7	25.8	2.5	71	-0.09	28.04			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	7/26/2018 8:07:42 AM	0.9	31.5	0.8	66.8	-0.03	28.1			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	8/23/2018 8:12:21 AM	1	31.4	0.7	66.9	-0.12	28.12			8/23/2018 1:06:39 PM
Sunshine Canyon Landfill	P00205RB	P-205RB	Active	9/27/2018 8:06:10 AM	0.7	25.7	2.6	71	-0.03	28.08	SD	SD	9/27/2018 10:32:54 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/23/2014 9:24:00 AM	0.9	44.4	0.2	54.5	-0.2	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/13/2014 10:30:00 AM	1	42.9	1.2	54.9	-0.11	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/13/2014 9:18:00 AM	1	39.8	2.6	56.6	-0.05	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/24/2014 9:57:00 AM	1.1	42.4	1.3	55.2	0.05	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/22/2014 9:59:00 AM	0.6	31.1	6.9	61.4	-0.01	27.95	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/12/2014 9:49:00 AM	0.6	30.2	6.9	62.3	-0.12	27.91	ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/24/2014 10:53:00 AM	1	44.7	0	54.3	-0.11	27.84	Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/21/2014 9:58:00 AM	1	41.5	1.4	56.1	-0.15	27.92	ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/25/2014 9:56:00 AM	1.1	43.6	0.3	55	-0.17	27.94	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	10/23/2014 9:55:00 AM	1	41.8	1	56.2	-0.17	28	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/20/2014 9:56:00 AM	1.3	42	1.3	55.4	-0.16	28.05	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:22 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/18/2014 10:13:00 AM	0.5	18.9	13.9	66.7	-0.32	28.27	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/22/2015 10:43:00 AM	0.9	31.6	6.7	60.8	-0.37	28.33	ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/19/2015 10:00:00 AM	1.4	43.1	0.3	55.2	-0.1	28.21	Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/19/2015 10:29:00 AM	0.5	16	13	70.5	-0.04	28.12	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/16/2015 9:50:00 AM	1.4	42.7	0.4	55.5	-0.15	28.14	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/21/2015 9:33:00 AM	1.3	40.3	1.7	56.7	0.03	28.04	ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/18/2015 9:16:00 AM	0.3	40.8	1.3	56.6	-0.21	28.07	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/23/2015 9:30:00 AM	1.3	43.1	0	55.6	-0.32	28.1	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/20/2015 9:40:00 AM	1.3	43.2	0	55.5	0.03	28.01	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/17/2015 10:46:00 AM	1.3	42	0.2	56.5		28	ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	10/22/2015 10:35:00 AM	1.1	38.4	3.2	57.3	-0.22	28	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/19/2015 10:02:00 AM	1.2	43.2	0.2	55.4	-0.1	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/17/2015 9:42:00 AM	0.9	30.1	6.9	62.1	-0.35	28.18	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/21/2016 9:37:00 AM	1.3	41.8	0	56.9	-0.23	28.23	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/18/2016 9:43:00 AM	0.8	28.9	7.2	63.1	-0.57	28.01	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/24/2016 10:02:00 AM	1.4	41	0.5	57.1	0.02	28.11	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/21/2016 9:36:00 AM	1.2	40.2	0.5	58.1	-0.11	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/19/2016 7:56:00 AM	1.4	42	0	56.6	-0.11	27.94	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/23/2016 9:20:00 AM	1.3	41.1	0	57.6	-0.07	27.98	ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/21/2016 9:44:00 AM	1.2	39.4	0.3	59.1	0.08	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/18/2016 8:53:00 AM	1.2	39.7	0.6	58.5	0.06	27.92	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/22/2016 7:57:00 AM	1.2	40.9	0	57.9	-0.23	27.9	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	10/20/2016 8:13:00 AM	1.3	40.5	0	58.2	-0.27	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/16/2016 1:20:31 PM	0.8	39	0.9	59.3	0.07	27.86			11/16/2016 2:39:49 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/17/2016 8:12:00 AM	1.1	40.2	0	58.7	-0.83	27.99	ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/14/2016 8:23:54 AM	1	34.7	3.4	60.9	-0.32	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/15/2016 8:02:00 AM	1.2	39.7	0.1	59	-0.11	28	ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/18/2017 11:53:21 AM	0.8	36.1	2.1	61	0.12	28.13	BN	BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/25/2017 8:32:01 AM	1.1	41	0.2	57.7	-0.62	28.24	BN	BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/26/2017 9:32:00 AM	1.4	40.9	0.2	57.5	-0.3	28.27	ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/22/2017 8:11:34 AM	1.1	38.9	1.7	58.3	0.15	28.12	BN	BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/23/2017 9:24:00 AM	1.2	40.4	0	58.4	0.04	28.03	ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/15/2017 8:14:39 AM	1.1	36.4	2.9	59.6	-0.09	28.15	BN	BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/23/2017 9:05:00 AM	1.2	40.1	0.9	57.8	-0.24	28.02	ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/19/2017 8:37:12 AM	1.1	38.1	3.3	57.5	-0.24	28.14	BS	BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/20/2017 9:28:00 AM	1.4	43.6	0	55	-0.15	28.08	ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/24/2017 9:34:35 AM	0.9	33.3	4.8	61	0.01	27.94	BN	BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/25/2017 9:50:00 AM	1.6	45.2	0	53.2	-0.25	27.85	ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/28/2017 8:54:25 AM	0.8	36.5	3.9	58.8	-0.07	27.97	BS	BS	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/29/2017 9:54:00 AM	1.6	44.7	0	53.7	-0.22	27.92	ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/12/2017 10:00:23 AM	1.1	41	2.2	55.7	-0.02	28.05	BS	BS	7/14/2017 11:32:40 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/13/2017 8:45:00 AM	1.6	44.5	0	53.9	-0.27	28.02	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/24/2017 10:06:00 AM	0.6	17.2	12.6	69.6	-0.06	27.89	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/11/2017 10:48:10 AM	0.7	29	6.8	63.5	-0.17	28.04	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/12/2017 11:52:50 AM	1.2	43.5	0	55.3	-0.04	28.02	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/21/2017 7:53:00 AM	1.2	32.4	6.6	59.8	-0.08	27.83	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	10/31/2017 9:23:04 AM	0.6	17.1	12.8	69.5	-0.41	27.89	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	11/16/2017 9:47:00 AM	0.6	17.7	12.3	69.4	0.03	27.97	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	12/14/2017 9:28:00 AM	0.9	23.8	9.4	65.9	-0.37	28.04	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	1/25/2018 11:09:30 AM	1.5	35.6	2.4	60.5	-0.06	28.14			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	2/15/2018 10:57:05 AM	1.4	34.2	4.1	60.3	0.51	28.21	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	3/29/2018 10:09:14 AM	1.5	36.3	1.8	60.4	-0.39	28.16			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	4/19/2018 10:04:37 AM	0.2	35.3	0.2	64.3	-0.14	28.08			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/24/2018 7:51:55 AM	2	40.6	0	57.4	-0.41	28.15			5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/30/2018 7:58:03 AM	1.9	41.2	0	56.9	-0.28	27.97	mq	mq	5/30/2018 3:59:32 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	5/30/2018 7:59:11 AM	1.9	41.4	0	56.7		27.97	mq	mq	5/30/2018 3:59:32 PM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	6/28/2018 8:06:19 AM	1.9	40	0.2	57.9	-0.25	28.04			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	7/26/2018 8:14:28 AM	1.8	46.4	0	51.8	-0.2	28.1			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	8/23/2018 8:18:39 AM	1.7	44.3	0.1	53.9	-0.28	28.13			8/23/2018 1:06:39 PM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RC	P-205RC	Active	9/27/2018 8:10:25 AM	1.8	41.7	0.5	56	-0.3	28.08	SD	SD	9/27/2018 10:32:54 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/23/2014 9:27:00 AM	1.9	47.4	0	50.7	-0.15	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/13/2014 10:36:00 AM	1.7	46.4	0	51.9	0	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/13/2014 9:20:00 AM	1.3	41.7	2.1	54.9	-0.06	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/24/2014 10:00:00 AM	1.7	45.7	0	52.6	0.15	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/22/2014 10:04:00 AM	1.6	46.5	0	51.9	-0.02	27.95	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/12/2014 9:51:00 AM	1.4	40.2	3.5	54.9	0.13	27.91	ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/24/2014 10:59:00 AM	1.7	47.2	0	51.1	-0.04	27.84	Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/21/2014 10:01:00 AM	1.8	46.9	0	51.3	-0.09	27.92	ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/25/2014 10:02:00 AM	1.7	46.5	0	51.8	0.04	27.94	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	10/23/2014 9:57:00 AM	1.7	45.3	0.5	52.5	0.08	27.99	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/20/2014 9:59:00 AM	1.7	43	1.6	53.7	-0.07	28.05	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:22 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/18/2014 10:16:00 AM	1.1	33.1	7.2	58.6	-0.01	28.27	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/22/2015 10:45:00 AM	1.3	38.8	3.7	56.2	-0.03	28.33	ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/19/2015 10:05:00 AM	2	45.6	0.1	52.3	-0.07	28.21	Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/19/2015 10:33:00 AM	1	24.6	10.2	64.2	0.07	28.12	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/16/2015 9:53:00 AM	2.2	46.6	0	51.2	0.03	28.14	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/21/2015 9:37:00 AM	2.1	46	0	51.9	0.07	28.04	ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/18/2015 9:19:00 AM	2.2	46.2	0.3	51.3	-0.04	28.07	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/23/2015 9:34:00 AM	2.1	46.5	0	51.4	-0.09	28.1	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/20/2015 9:45:00 AM	2	46.3	0	51.7	0	28.01	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/17/2015 10:52:00 AM	1.8	44.8	0.8	52.6		28.01	ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	10/22/2015 10:38:00 AM	2.1	46.7	0.2	51	-0.14	28.01	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/19/2015 10:04:00 AM	1.6	43.8	0.8	53.8	-0.01	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/17/2015 9:45:00 AM	2.1	45	0	52.9	-0.12	28.19	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/21/2016 9:42:00 AM	2	45.1	0	52.9	-0.01	28.22	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/18/2016 9:47:00 AM	2.3	46	0	51.7	-0.23	28.01	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/24/2016 10:04:00 AM	2.1	44.3	0.4	53.2	-0.07	28.11	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/21/2016 9:40:00 AM	2.1	45.5	0	52.4	0.05	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/19/2016 8:00:00 AM	2.3	46.1	0	51.6	-0.04	27.93	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/23/2016 9:24:00 AM	2	45.1	0	52.9	0.04	27.98	ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/21/2016 9:48:00 AM	1.9	44.2	0	53.9	0.04	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/18/2016 8:56:00 AM	2.1	45.3	0	52.6	0.18	27.92	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/22/2016 8:01:00 AM	2.2	45.8	0	52	-0.15	27.92	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	10/20/2016 8:16:00 AM	2.1	44.8	0	53.1	-0.06	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/16/2016 1:26:52 PM	1	43	0	56	-0.17	27.86			11/16/2016 2:39:49 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/17/2016 8:16:00 AM	2	44.2	0	53.8	-0.27	27.99	ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/14/2016 8:28:22 AM	1.8	44.1	0.1	54	-0.09	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/15/2016 8:05:00 AM	2.1	44.3	0	53.6	0.09	28	ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/18/2017 11:58:06 AM	1.2	42.2	0	56.6	0.22	28.12	BN	BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/25/2017 8:37:00 AM	2.1	47.2	0	50.7	-0.22	28.24	BN	BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/26/2017 9:37:00 AM	2.1	45	0	52.9	-0.12	28.27	ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/22/2017 8:16:23 AM	1.2	43.5	0.2	55.1	0.09	28.12	BN	BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/23/2017 9:27:00 AM	2.1	45.1	0	52.8	-0.03	28.03	ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/15/2017 8:19:02 AM	1.5	42	0.9	55.6	-0.08	28.15	BN	BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/23/2017 9:07:00 AM	1.6	35.6	5.6	57.2	-0.29	28.03	ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/19/2017 8:41:50 AM	1.9	46.1	0.2	51.8	-0.12	28.13	BS	BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/20/2017 9:31:00 AM	2.2	45.7	0	52.1	-0.24	28.08	ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/24/2017 9:38:49 AM	1.4	42.9	1.5	54.2	-0.08	27.95	BN	BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/25/2017 9:54:00 AM	2.5	47.1	0	50.4	-0.02	27.85	ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/28/2017 8:59:01 AM	1.2	42.9	1.2	54.7	-0.33	27.96	BS	BS	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/29/2017 9:58:00 AM	2.5	46.4	0	51.1	-0.03	27.91	ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/12/2017 10:04:59 AM	1.8	46.8	0.2	51.2	-0.07	28.06	BS	BS	7/14/2017 11:32:40 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/13/2017 8:50:00 AM	2.3	45.8	0	51.9	-0.12	28.02	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/24/2017 10:08:00 AM	0.8	17.8	12.6	68.8	-0.08	27.89	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/11/2017 10:52:56 AM	1.1	35.3	4.4	59.2	-0.03	28.04	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/12/2017 11:56:28 AM	2	45.6	0	52.4	0	28.02	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/21/2017 7:55:00 AM	1.9	39.8	3.5	54.8	-0.08	27.83	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	10/31/2017 9:28:59 AM	2.7	45.8	0.1	51.4	-0.07	27.9	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	11/16/2017 9:51:00 AM	1.9	39.7	3	55.4	-0.01	27.97	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	12/14/2017 9:30:00 AM	0.8	17.1	13	69.1	-0.08	28.03	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	1/25/2018 11:15:43 AM	2.6	38.3	0.1	59	0.01	28.13			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	2/15/2018 11:02:05 AM	2.5	43.9	0.2	53.4	-0.24	28.21	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	3/29/2018 10:14:44 AM	2.9	43.2	0.1	53.8	-0.04	28.15			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	4/19/2018 10:09:53 AM	2.9	43.4	0	53.7	-0.1	28.08			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/24/2018 7:58:46 AM	3.1	44	0	52.9	-0.1	28.15			5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	5/30/2018 8:08:31 AM	3.4	45.6	0	51	-0.24	27.97	mq	mq	5/30/2018 3:59:32 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/1/2018 7:33:40 AM	2.9	40.6	1.5	55	-0.18	28.06	MQ	MQ	6/4/2018 12:37:30 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	6/28/2018 8:11:55 AM	3	43.3	0	53.7	-0.14	28.03			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	7/26/2018 8:21:40 AM	2.7	49.4	0	47.9	-0.03	28.11			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	8/23/2018 8:24:58 AM	2.5	47.4	0	50.1	-0.1	28.12			8/23/2018 1:06:39 PM
Sunshine Canyon Landfill	P00205RD	P-205RD	Active	9/27/2018 8:18:31 AM	2.8	45.9	0	51.3	-0.01	28.08	SD	SD	9/27/2018 10:32:54 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/23/2014 9:31:00 AM	1.1	43	0.4	55.5	-0.15	28.1	Robert Johns	Robert Johns	3/13/2014 9:36:21 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/13/2014 10:43:00 AM	0.8	41.5	0.1	57.6	0.02	28.15	Robert Johns	Robert Johns	2/14/2014 5:42:10 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/13/2014 9:23:00 AM	0.2	35.6	0.2	64	-0.11	27.98	Robert Johns	Robert Johns	3/14/2014 1:05:23 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/24/2014 10:07:00 AM	0.7	39.2	0	60.1	0.15	27.94	ROBERT JOHNS	ROBERT JOHNS	4/25/2014 10:28:55 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/22/2014 10:07:00 AM	0.6	37.9	0.4	61.1	0.01	27.95	ROBERT JOHNS	ROBERT JOHNS	5/23/2014 12:24:14 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/12/2014 9:56:00 AM	1.4	44.3	0	54.3	-0.07	27.91	ROBERT JOHNS	ROBERT JOHNS	6/27/2014 8:58:54 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/24/2014 11:08:00 AM	1.3	44.7	0	54	-0.18	27.84	Robert Johns	Robert Johns	7/25/2014 12:13:51 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/21/2014 10:05:00 AM	0.9	33.7	4.7	60.7	-0.56	27.92	ROBERT JOHNS	ROBERT JOHNS	8/26/2014 10:18:17 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/25/2014 10:06:00 AM	1.3	44.1	0	54.6	-0.38	27.94	Robert Johns	Robert Johns	9/29/2014 8:19:11 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	10/23/2014 10:01:00 AM	1.7	47	0	51.3	-0.23	27.99	Robert Johns	Robert Johns	10/27/2014 2:00:35 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/20/2014 10:04:00 AM	0.9	39	0	60.1	-0.08	28.05	ROBERT JOHNS	ROBERT JOHNS	11/21/2014 11:09:22 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/18/2014 10:22:00 AM	1.5	44.3	0.2	54	-0.15	28.27	ROBERT JOHNS	ROBERT JOHNS	12/19/2014 10:04:54 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/22/2015 10:49:00 AM	1.8	45.8	0.5	51.9	-0.15	28.33	ROBERT JOHNS	ROBERT JOHNS	1/27/2015 4:47:42 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/19/2015 10:08:00 AM	1.3	40.1	0.2	58.4	-0.6	28.21	Robert Johns	Robert Johns	2/26/2015 2:07:43 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/19/2015 10:37:00 AM	1.7	45.4	0.2	52.7	0.01	28.12	ROBERT JOHNS	ROBERT JOHNS	3/25/2015 8:12:41 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/16/2015 9:57:00 AM	1.4	41	0.1	57.5	-0.18	28.14	ROBERT JOHNS	ROBERT JOHNS	4/17/2015 10:51:22 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/21/2015 9:41:00 AM	0.9	36.7	0.1	62.3	-0.07	28.04	ROBERT JOHNS	ROBERT JOHNS	5/22/2015 11:40:57 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/18/2015 9:23:00 AM	2.2	46.8	0	51	-0.29	28.08	ROBERT JOHNS	ROBERT JOHNS	6/25/2015 4:06:00 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/23/2015 9:39:00 AM	2	46.1	0	51.9	0.01	28.1	ROBERT JOHNS	ROBERT JOHNS	7/30/2015 3:40:16 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/20/2015 9:51:00 AM	1.7	44.2	0	54.1	-0.12	28.01	ROBERT JOHNS	ROBERT JOHNS	8/27/2015 9:49:04 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/17/2015 10:58:00 AM	1.7	43.5	0.1	54.7		28.01	ROBERT JOHNS	ROBERT JOHNS	9/30/2015 10:09:43 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	10/22/2015 10:41:00 AM	1.5	43	0.2	55.3	-0.26	28	ROBERT JOHNS	ROBERT JOHNS	10/23/2015 10:10:10 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/19/2015 10:07:00 AM	1.6	43.6	0.3	54.5	-0.04	28.06	ROBERT JOHNS	ROBERT JOHNS	11/20/2015 2:22:04 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/17/2015 9:48:00 AM	1.6	42.2	0	56.2	-0.15	28.19	ROBERT JOHNS	ROBERT JOHNS	12/22/2015 4:37:26 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/21/2016 9:48:00 AM	0.9	37.1	0	62	-0.14	28.22	ROBERT JOHNS	ROBERT JOHNS	1/26/2016 9:54:28 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/18/2016 9:51:00 AM	0.9	37.6	0.1	61.4	-0.26	28	ROBERT JOHNS	ROBERT JOHNS	2/19/2016 8:19:00 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/24/2016 10:06:00 AM	1.8	41.8	1	55.4	-0.14	28.11	ROBERT JOHNS	ROBERT JOHNS	3/29/2016 2:14:47 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/21/2016 9:44:00 AM	1.2	38.7	0	60.1	-0.56	27.91	ROBERT JOHNS	ROBERT JOHNS	4/29/2016 11:11:25 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/19/2016 8:04:00 AM	1	37.2	0	61.8	-0.65	27.93	ROBERT JOHNS	ROBERT JOHNS	5/20/2016 3:54:34 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/23/2016 9:28:00 AM	1.9	44.8	0	53.3	-0.51	27.98	ROBERT JOHNS	ROBERT JOHNS	6/28/2016 6:36:07 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/21/2016 9:52:00 AM	1.9	44.8	0	53.3	-0.26	28	ROBERT JOHNS	ROBERT JOHNS	8/2/2016 1:52:18 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/18/2016 9:01:00 AM	1.9	44.4	0	53.7	0.1	27.92	ROBERT JOHNS	ROBERT JOHNS	8/23/2016 3:16:19 PM

Site Name	Point ID	Point Name	Status	Record Date	CH4 [%]	CO2 [%]	O2 [%]	Bal Gas [%]	Rel Press ["H2O]	Baro Press ["hg]	Field Technician	Download Technician	Upload Date
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/22/2016 8:03:00 AM	1.8	43.6	0	54.6	-0.14	27.91	ROBERT JOHNS	ROBERT JOHNS	9/30/2016 1:39:56 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	10/20/2016 8:20:00 AM	1.6	42.7	0	55.7	-0.93	28.04	ROBERT JOHNS	ROBERT JOHNS	10/28/2016 10:04:23 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/16/2016 1:31:55 PM	0	33.5	0	66.5	0.06	27.86			11/16/2016 2:39:49 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/17/2016 8:21:00 AM	1.8	43.9	0	54.3	-0.29	27.99	ROBERT JOHNS	ROBERT JOHNS	11/22/2016 11:05:07 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/14/2016 8:32:41 AM	0.9	39.5	0	59.6	-0.06	28.15			12/15/2016 4:58:00 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/15/2016 8:10:00 AM	1.2	39.3	0	59.5	-0.22	28	ROBERT JOHNS	ROBERT JOHNS	12/16/2016 4:02:08 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/18/2017 12:02:44 PM	0	29.2	0	70.8	0.2	28.13	BN	BN	1/19/2017 11:57:15 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/25/2017 8:41:51 AM	0.9	38.1	0	61	-0.28	28.24	BN	BN	1/26/2017 12:29:21 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/26/2017 9:41:00 AM	0.6	32.8	0	66.6	-0.8	28.27	ROBERT JOHNS	ROBERT JOHNS	2/1/2017 2:00:41 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/22/2017 8:21:12 AM	0.4	35.4	0.2	64	-1.41	28.12	BN	BN	2/23/2017 10:56:07 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/23/2017 9:32:00 AM	0.8	34.3	0	64.9	-0.06	28.03	ROBERT JOHNS	ROBERT JOHNS	3/6/2017 8:55:18 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/15/2017 8:23:51 AM	1.7	44.5	0	53.8	-0.7	28.15	BN	BN	3/16/2017 4:47:59 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/23/2017 9:12:00 AM	1.9	44.3	0	53.8	-0.35	28.02	ROBERT JOHNS	ROBERT JOHNS	4/4/2017 11:25:12 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/19/2017 8:46:23 AM	2.3	47.2	0	50.5	-0.27	28.14	BS	BN	4/20/2017 11:41:09 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/20/2017 9:34:00 AM	2.3	45.3	0	52.4	-11.18	28.08	ROBERT JOHNS	ROBERTJOHNS	4/26/2017 9:09:22 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/24/2017 9:42:52 AM	1.8	44.2	0.2	53.8	-0.12	27.94	BN	BN	5/25/2017 9:07:46 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/25/2017 9:59:00 AM	1.9	41.7	0	56.4	-0.96	27.84	ROBERT JOHNS	ROBERT JOHNS	6/4/2017 11:51:57 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/28/2017 9:03:41 AM	1.3	43.5	0.1	55.1	-0.09	27.96	BS	BS	6/30/2017 6:48:17 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/29/2017 10:03:00 AM	2.1	44.6	0	53.3	-0.51	27.92	ROBERT JOHNS	ROBERT JOHNS	7/7/2017 8:14:36 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/12/2017 10:10:07 AM	1.9	45.8	0	52.3	0.11	28.05	BS	BS	7/14/2017 11:32:40 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/13/2017 8:53:00 AM	2.1	43.4	0	54.5	-0.43	28.02	ROBERT JOHNS	ROBERT JOHNS	7/31/2017 12:51:16 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/24/2017 10:09:00 AM	0.9	21.3	9.7	68.1	-0.02	27.89	ROBERT JOHNS	ROBERT JOHNS	8/28/2017 1:32:38 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/11/2017 10:58:30 AM	1	28.1	6	64.9	0	28.04	mq	mq	9/11/2017 5:57:34 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/12/2017 12:01:24 PM	1.6	40.6	0	57.8	-0.02	28.02	tr	mq	9/12/2017 1:33:13 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/21/2017 7:58:00 AM	1.3	29	6.1	63.6	-0.19	27.83	ROBERT JOHNS	ROBERT JOHNS	9/30/2017 12:41:48 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	10/31/2017 9:32:32 AM	0.9	29.9	2.9	66.3	0	27.9	ROBERT JOHNS	ROBERT JOHNS	11/1/2017 11:20:11 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	11/16/2017 9:53:00 AM	0.7	23.9	6.9	68.5	0.02	27.97	ROBERT JOHNS	ROBERT JOHNS	11/19/2017 9:52:48 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	12/14/2017 9:32:00 AM	0.4	18.3	9.2	72.1	-0.21	28.03	ROBERT JOHNS	ROBERT JOHNS	12/15/2017 7:43:26 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	1/25/2018 11:20:45 AM	0.4	29.4	0.2	70	0.12	28.13			1/25/2018 5:25:20 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	2/15/2018 11:07:04 AM	1.5	36.4	0.1	62	-0.17	28.21	AR	AR	2/15/2018 4:29:24 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	3/29/2018 10:21:17 AM	0.4	26	0.2	73.4	-0.15	28.15			3/29/2018 4:40:11 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	4/19/2018 10:15:03 AM	0.9	29.8	0	69.3	-0.59	28.08			4/19/2018 11:25:05 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/24/2018 8:04:40 AM	2	37.2	0	60.8	-0.24	28.14			5/24/2018 11:36:41 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	5/30/2018 8:15:27 AM	1.5	33.5	1.4	63.6	-1.47	27.98	mq	mq	5/30/2018 3:59:32 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/5/2018 8:32:17 AM	2.9	42.2	1	53.9	-0.52	28.01	MQ	MQ	6/8/2018 6:39:50 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	6/28/2018 8:17:25 AM	1.8	35.5	0	62.7	-0.27	28.02			6/28/2018 11:02:21 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	7/26/2018 8:28:48 AM	1.8	39.7	0	58.5	-0.1	28.1			7/26/2018 11:07:05 AM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	8/23/2018 8:32:39 AM	1.7	38.5	0	59.8	-0.08	27.9			8/23/2018 1:06:39 PM
Sunshine Canyon Landfill	P00205RE	P-205RE	Active	9/27/2018 8:25:18 AM	1.6	37.1	0	61.3	-0.06	28.08	SD	SD	9/27/2018 10:32:54 AM

ATTACHMENT C

ANALYTICAL RESULTS

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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: February 2, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon LF
Project No.: 07218035.00
Date Received: January 26, 2018
Date Analyzed: January 26, 2018

	AtmAA Lab No.:	10268-1
	Sample I.D.:	Probe 205RD
Components		*(Concentration in ppmv)*
Methane		27400
Carbon dioxide		464000
Ethane		<5
TGNMO		19.5
Hydrogen sulfide		0.42
		(Concentration in ppbv)
Benzene		7.52
Benzyl chloride		<8
Chlorobenzene		<8
Dichlorobenzenes*		<12
1,1-dichloroethane		<10
1,2-dichloroethane		<10
1,1-dichloroethylene		<10
Dichloromethane		<10
1,2-dibromoethane		<6
Perchloroethylene		<6
Carbon tetrachloride		<8
Toluene		<8
1,1,1-trichloroethane		<6
Trichloroethene		<6
Chloroform		<8
Vinyl chloride		<8
m+p-xylenes		<8
o-xylene		<8

Methane, ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.
Ethane is reported as ppmvC.
TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Sunshine Canyon LF
Date Received: January 26, 2018
Date Analyzed: January 26, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	Probe 205RD	27500	27400	27400	0.18
Ethane	Probe 205RD	<5	<5	---	---
TGNMO	Probe 205RD	18.9	20.1	19.5	3.1
Hydrogen sulfide	Probe 205RD	0.39	0.44	0.42	6.0
		(Concentration in ppbv)			
Benzene	Probe 205RD	7.99	7.05	7.52	6.2
Benzyl chloride	Probe 205RD	<8	<8	---	---
Chlorobenzene	Probe 205RD	<8	<8	---	---
Dichlorobenzenes	Probe 205RD	<12	<12	---	---
1,1-dichloroethane	Probe 205RD	<10	<10	---	---
1,2-dichloroethane	Probe 205RD	<10	<10	---	---
1,1-dichloroethylene	Probe 205RD	<10	<10	---	---
Dichloromethane	Probe 205RD	<10	<10	---	---
1,2-dibromoethane	Probe 205RD	<6	<6	---	---
Perchloroethene	Probe 205RD	<6	<6	---	---
Carbon tetrachloride	Probe 205RD	<8	<8	---	---
Toluene	Probe 205RD	<8	<8	---	---
1,1,1-trichloroethane	Probe 205RD	<6	<6	---	---
Trichloroethene	Probe 205RD	<6	<6	---	---
Chloroform	Probe 205RD	<8	<8	---	---
Vinyl chloride	Probe 205RD	<8	<8	---	---
m+p-xylenes	Probe 205RD	<8	<8	---	---
o-xylene	Probe 205RD	<8	<8	---	---

One Tedlar bag sample, laboratory number 10268-1, was analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 4 repeat measurements from one Tedlar bag sample is 3.9%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED:
☐ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00

PROJECT MANAGER: RAY AL AYASS

PROJECT NAME: SUNSHINE CANYON

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR CA

SAMPLER NAME AND SIGNATURE: A ROMO

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC (EPA METHOD 25)		TAC (TABLE 1)	H2S	CH4	CO2	ETHANE	TGNMO	LAB USE ONLY
	PROBE 205R D	AIR	1-25-18 @ 16:15 HRS	TEDLAR 10 L	NONE		X		X	X	X	X	X	X	102681

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY:	TIME:	COMPANY:	TIME:	COMPANY:	TIME:	COMPANY:	TIME:
	1-26-18						1/26/18 09:55

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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: March 2, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00 Task 1
Date Received: February 16, 2018
Date Analyzed: February 16, 2018

AtmAA Lab No.:	10478-28	10478-29	10478-30	10478-31	10478-32
	P-240E	P-205R-C	P-205R-D	P-205R-E	P-218-B
Components	*(Concentration in ppmv)*				
Methane	76000	20200	27300	16700	1180
Carbon dioxide	2400	442000	475000	384000	346000
Ethane	1230	<5	<5	<5	<5
TGNMO	265	<5	<5	<5	<5
Hydrogen sulfide	<0.2	<0.2	0.97	1.26	<0.2
	(Concentration in ppbv)				
Benzene	5.04	6.45	6.64	1.94	1.06
Benzyl chloride	<1.4	<1.4	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4	<1.4	<1.4
Dichlorobenzenes*	<3	<3	<3	<3	<3
1,1-dichloroethane	<1.4	<1.4	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4	<1.4	<1.4
Dichloromethane	<3	<3	<3	<3	<3
1,2-dibromoethane	<1	<1	<1	<1	<1
Perchloroethylene	<1	<1	<1	<1	35.7
Carbon tetrachloride	<1.4	<1.4	<1.4	<1.4	<1.4
Toluene	<1.4	<1.4	2.23	1.65	<1.4
1,1,1-trichloroethane	<1	<1	<1	<1	<1
Trichloroethene	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	1.06
Vinyl chloride	<1	<1	<1	<1	<1
m+p-xylenes	<1.4	1.47	1.84	<1.4	<1.4
o-xylene	<1.4	<1.4	<1.4	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C.
Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/ total combustion analysis (FID/TCA) Method 25.
Ethane is reported as ppmvC.
TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: February 16, 2018
Date Analyzed: February 16, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	P-240E	75800	76100	76000	0.20
Ethane	P-240E	1230	1230	1230	0.0
TGNMO	P-240E	265	265	265	0.0
Hydrogen sulfide	P-240E	<0.2	<0.2	---	---
	P-205R-C	<0.2	<0.2	---	---
	P-205R-D	1.00	0.94	0.97	3.1
	P-205R-E	1.22	1.31	1.26	3.6
	P-218-B	<0.2	<0.2	---	---
		(Concentration in ppbv)			
Benzene	P-240E	5.01	5.07	5.04	0.60
Benzyl chloride	P-240E	<1.4	<1.4	---	---
Chlorobenzene	P-240E	<1.4	<1.4	---	---
Dichlorobenzenes	P-240E	<3	<3	---	---
1,1-dichloroethane	P-240E	<1.4	<1.4	---	---
1,2-dichloroethane	P-240E	<1.4	<1.4	---	---
1,1-dichloroethylene	P-240E	<1.4	<1.4	---	---
Dichloromethane	P-240E	<3	<3	---	---
1,2-dibromoethane	P-240E	<1	<1	---	---
Perchloroethene	P-240E	<1	<1	---	---
Carbon tetrachloride	P-240E	<1.4	<1.4	---	---
Toluene	P-240E	<1.4	<1.4	---	---
1,1,1-trichloroethane	P-240E	<1	<1	---	---
Trichloroethene	P-240E	<1	<1	---	---
Chloroform	P-240E	<1	<1	---	---



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Project Location: Sunshine Canyon
Date Received: February 16, 2018
Date Analyzed: February 16, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
Vinyl chloride	P-240E	<1	<1	---	---
m+p-xylenes	P-240E	<1.4	<1.4	---	---
o-xylene	P-240E	<1.4	<1.4	---	---

Five Tedlar bag samples, laboratory numbers 10478-(28-32), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 6 repeat measurements from five Tedlar bag samples is 1.2%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED:
☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218D35.00 TASK 01

PROJECT MANAGER: RAY AL AYASS

PROJECT NAME: SUNSHINE CANYON

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR CA

SAMPLER NAME AND SIGNATURE:

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC (EPA METHOD 25)	TAC (TABLE 1)	H_2S	CH_4	CO_2	ETHANE	TOXMD	LAB USE ONLY
	P-240E	LFG	2-15-18 12:45 pm	1 OL TEDLAR	NONE	10478-28	X	X	X	X	X	X	X	
	P-205R-C	LFG	2-15-18 1300 PM	1 OL TEDLAR	NONE	-29	X	X	X	X	X	X	X	
	P-205R-D	LFG	2-15-18 1315 PM	1 OL TEDLAR	NONE	-30	X	X	X	X	X	X	X	
	P-205R-E	LFG	2-15-18 1330 PM	1 OL TEDLAR	NONE	-31	X	X	X	X	X	X	X	
	P-218-B	LFG	2-15-18 1345 pm	1 OL TEDLAR	NONE	-32	X	X	X	X	X	X	X	

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS-FS	TIME: 2/16/18	COMPANY:	TIME: 10:30	COMPANY:	TIME:	COMPANY:	TIME: 10:30

FORM NO. 107 REV. 3/14 TWIN CONCEPTS

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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: April 11, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon LF
Project No.: 07218035.00 Task 01
Date Received: March 30, 2018
Date Analyzed: March 30, 2018

AtmAA Lab No.:	10888-13	10898-14
Sample I.D.:	Probe 205R-C	Probe 205R-D
Components	*(Concentration in ppmv)*	
Methane	16000	28900
Carbon dioxide	389000	473000
Ethane	<5	<5
TGNMO	17.9	17.9
Hydrogen sulfide	<0.1	0.54
	(Concentration in ppbv)	
Benzene	5.56	5.95
Benzyl chloride	<4	<4
Chlorobenzene	<4	<4
Dichlorobenzenes*	<6	<6
1,1-dichloroethane	<4	<4
1,2-dichloroethane	<4	<4
1,1-dichloroethylene	<4	<4
Dichloromethane	<4	<4
1,2-dibromoethane	<3	<3
Perchloroethylene	<3	<3
Carbon tetrachloride	<4	<4
Toluene	<4	<4
1,1,1-trichloroethane	<3	<3
Trichloroethene	<3	<3
Chloroform	<3	<3
Vinyl chloride	<3	<3
m+p-xylenes	<4	<4
o-xylene	<4	<4

Methane, ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/total combustion analysis (FID/TCA) Method 25.
Ethane is reported as ppmvC.
TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Sunshine Canyon LF
Date Received: March 30, 2018
Date Analyzed: March 30, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	Probe 205R-C	16200	15900	16000	0.93
Ethane	Probe 205R-C	<5	<5	---	---
TGNMO	Probe 205R-C	17.3	18.5	17.9	3.4
Hydrogen sulfide	Probe 205R-C	<0.1	<0.1	---	---
	Probe 205R-D	0.53	0.55	0.54	1.8
		(Concentration in ppbv)			
Benzene	Probe 205R-C	5.64	5.48	5.56	1.4
Benzyl chloride	Probe 205R-C	<4	<4	---	---
Chlorobenzene	Probe 205R-C	<4	<4	---	---
Dichlorobenzenes	Probe 205R-C	<6	<6	---	---
1,1-dichloroethane	Probe 205R-C	<4	<4	---	---
1,2-dichloroethane	Probe 205R-C	<4	<4	---	---
1,1-dichloroethylene	Probe 205R-C	<4	<4	---	---
Dichloromethane	Probe 205R-C	<4	<4	---	---
1,2-dibromoethane	Probe 205R-C	<3	<3	---	---
Perchloroethene	Probe 205R-C	<3	<3	---	---
Carbon tetrachloride	Probe 205R-C	<4	<4	---	---
Toluene	Probe 205R-C	<4	<4	---	---
1,1,1-trichloroethane	Probe 205R-C	<3	<3	---	---
Trichloroethene	Probe 205R-C	<3	<3	---	---
Chloroform	Probe 205R-C	<3	<3	---	---
Vinyl chloride	Probe 205R-C	<3	<3	---	---
m+p-xylenes	Probe 205R-C	<4	<4	---	---
o-xylene	Probe 205R-C	<4	<4	---	---

Two Tedlar bag samples, laboratory numbers 10898-(13 & 14), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 4 repeat measurements from two Tedlar bag samples is 1.9%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: ☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00 TASK 01

PROJECT MANAGER: RAY ALAYASS

PROJECT NAME: SUNSHINE CYN

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR CA.

SAMPLER NAME AND SIGNATURE:

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	TNMC	H2S	CH4	CO2	ETHANE	TO-15 MOD			LAB USE ONLY
	P205R-C	LFG	3-29-18 1330 PM	1oL TEDLAR	NONE	10898-13	X	X	X	X	X	X	X			
	P205R-D	LFG	3-29-18 1345 PM	1oL TEDLAR	NONE	14	X	X	X	X	X	X	X			

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS-FS	TIME:	COMPANY: DCS	TIME: 10	COMPANY:	TIME:	COMPANY:	TIME:

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environmental consultants
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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: July 6, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: June 29, 2018
Date Analyzed: June 29, 2018

AtmAA Lab No.:	11808-1	11808-2	11808-3
	P-205RC	P-205RD	P-205RE
Components	*(Concentration in ppmv)*		
Methane	19700	29600	19200
Carbon dioxide	445000	476000	398000
Ethane	<5	<5	<5
TGNMO	14.2	10.3	9.50
Hydrogen sulfide	<0.2	<0.2	1.93
	(Concentration in ppbv)		
Benzene	3.82	3.95	1.38
Benzyl chloride	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4
Dichlorobenzenes*	<3	<3	<3
1,1-dichloroethane	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4
Dichloromethane	<2	<2	<2
1,2-dibromoethane	<1	<1	<1
Perchloroethylene	<1	<1	<1
Carbon tetrachloride	<1.4	<1.4	<1.4
Toluene	<1.4	<1.4	<1.4
1,1,1-trichloroethane	<1	<1	<1
Trichloroethene	<1	<1	<1
Chloroform	<1	<1	<1
Vinyl chloride	<1	<1	<1
m+p-xylenes	1.47	<1.4	<1.4
o-xylene	<1.4	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C. Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/ total combustion analysis (FID/TCA) Method 25.

Ethane is reported as ppmvC.

TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.

** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: June 29, 2018
Date Analyzed: June 29, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	P-205RC	19600	19800	19700	0.51
Ethane	P-205RC	<5	<5	---	---
TGNMO	P-205RC	14.2	14.3	14.2	0.35
Hydrogen sulfide	P-205RE	1.91	1.95	0.97	3.1
		(Concentration in ppbv)			
Benzene	P-205RC	3.70	3.95	3.82	3.3
Benzyl chloride	P-205RC	<1.4	<1.4	---	---
Chlorobenzene	P-205RC	<1.4	<1.4	---	---
Dichlorobenzenes	P-205RC	<3	<3	---	---
1,1-dichloroethane	P-205RC	<1.4	<1.4	---	---
1,2-dichloroethane	P-205RC	<1.4	<1.4	---	---
1,1-dichloroethylene	P-205RC	<1.4	<1.4	---	---
Dichloromethane	P-205RC	<2	<2	---	---
1,2-dibromoethane	P-205RC	<1	<1	---	---
Perchloroethene	P-205RC	<1	<1	---	---
Carbon tetrachloride	P-205RC	<1.4	<1.4	---	---
Toluene	P-205RC	<1.4	<1.4	---	---
1,1,1-trichloroethane	P-205RC	<1	<1	---	---
Trichloroethene	P-205RC	<1	<1	---	---
Chloroform	P-205RC	<1	<1	---	---
Vinyl chloride	P-205RC	<1	<1	---	---
m+p-xylenes	P-205RC	<1.4	1.47	---	---
o-xylene	P-205RC	<1.4	<1.4	---	---

Three Tedlar bag samples, laboratory numbers 11808-(1-3), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 4 repeat measurements from two Tedlar bag samples is 1.8%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED:
☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00

PROJECT MANAGER: RAY AL AYASS

PROJECT NAME: SUNSHINE CANYON

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR, CA

SAMPLER NAME AND SIGNATURE:

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	TAC	H_2S	CH_4	CO_2	ETHANE	TGNMOC			LAB USE ONLY
180090-1	PROBE 205RC	AIR	06-28-18 13:07	10L TEDLAR	NONE		X	X	X	X	X	X	X			
-2																
-2	PROBE 205RD	AIR	06-28-18 13:30	10L TEDLAR	NONE		X	X	X	X	X	X	X			
-3	PROBE 205RE	AIR	06-28-18 13:40	10L TEDLAR	NONE		X	X	X	X	X	X	X			

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS	TIME: 1000	COMPANY: OS	TIME:	COMPANY:	TIME:	COMPANY:	TIME: 11:00

6/29/18

FORM NO. 107 REV. 3/14 TWIN CONCEPTS

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LABORATORY ANALYSIS REPORT

TO-15 Component Analysis in Probe Tedlar Bag Samples, by GC/MS

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Report Date: July 12, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: June 29, 2018
Date Analyzed: June 29, 2018

AtmAA Lab No.:	11808-1	11808-2	11808-3
Sample ID:	Probe 205RC	Probe 205RD	Probe 205RE
Components	*(Concentations in ppbv)*		
Freon 12	<0.6	<0.6	<0.6
Chloromethane	<0.8	<0.8	<0.8
Freon 114	<0.6	<0.6	<0.6
Vinyl Chloride	<0.6	<0.6	<0.6
1,3-Butadiene	<0.8	<0.8	<0.8
Bromomethane	<0.8	<0.8	<0.8
Chloroethane	<0.6	<0.6	<0.6
Bromoethene	<0.8	<0.8	<0.8
Acetone	61.6	63.0	108
Freon 11	<0.6	<0.6	<0.6
Isopropyl Alcohol	78.6	108	133
1,1-Dichloroethene	<0.8	<0.8	<0.8
Methylene Chloride	<0.8	<0.8	<0.8
3-Chloro-1-Propene	<0.8	<0.8	<0.8
Carbon Disulfide	<0.6	<0.6	<0.6
Freon 113	<0.6	<0.6	<0.6
trans-1,2-Dichloroethene	<0.8	<0.8	<0.8
1,1-Dichloroethane	<0.8	<0.8	<0.8
MTBE	<0.8	<0.8	<0.8
Vinyl Acetate	<1	<1	<1
2-Butanone	<2	<2	<2
cis-1,2-Dichloroethene	<0.8	<0.8	<0.8
n-Hexane	0.94	0.85	<0.8
Chloroform	<0.6	<0.6	<0.6
Ethyl Acetate	<0.8	<0.8	<0.8
Tetrahydrofuran	<0.8	<0.8	<0.8
1,2-Dichloroethane	<0.8	<0.8	<0.8
1,1,1-Trichloroethane	<0.6	<0.6	<0.6
Benzene	3.82	3.95	1.38
Carbon Tetrachloride	<0.6	<0.6	<0.6
Cyclohexane	<0.8	<0.8	<0.8
1,2-Dichloropropane	<0.8	<0.8	<0.8
Bromodichloromethane	<0.8	<0.8	<0.8
Trichloroethene	<0.6	<0.6	<0.6
1,4-Dioxane	<0.8	<0.8	<0.8
2,2,4-Trimethyl Pentane	<0.8	<0.8	<0.8
n-Heptane	<0.8	<0.8	<0.8
cis-1,3-Dichloropropene	<0.8	<0.8	<0.8
4-Methyl-2-pentanone	<0.8	<0.8	<0.8
trans-1,3-Dichloropropene	<0.8	<0.8	<0.8
1,1-2-Trichloroethane	<0.8	<0.8	<0.8
Toluene	0.98	1.22	1.06
2-Hexanone	<0.8	<0.8	<0.8
Dibromochloromethane	<0.6	<0.6	<0.6
1,2-Dibromomethane	<0.6	<0.6	<0.6
Tetrachloroethene	<0.6	<0.6	<0.6
Chlorobenzene	<0.8	<0.8	<0.8
Ethylbenzene	<0.6	<0.6	<0.6
m,p-Xylene	1.36	1.01	1.20
Bromoform	<0.6	<0.6	<0.6
Styrene	<0.6	<0.6	<0.6
1,1,2,2-Tetrachloroethane	<0.6	<0.6	<0.6
o-Xylene	1.18	0.78	1.01
Benzyl Chloride	<0.8	<0.8	<0.8
4-Ethyl Toluene	<0.6	<0.6	<0.6
1,3,5-Trimethyl Benzene	<0.6	<0.6	<0.6
1,2,4-Trimethyl Benzene	0.67	0.69	0.65
1,3-Dichlorobenzene	<0.6	<0.6	<0.6
1,4-Dichlorobenzene	<0.6	<0.6	<0.6
1,2-Dichlorobenzene	<0.6	<0.6	<0.6
1,2,4-Trichlorobenzene	<0.8	<0.8	<0.8
Hexachlorobutadiene	<0.6	<0.6	<0.6

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: June 29, 2018
Date Analyzed: June 29, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
Freon-12	Probe 205RC	<0.6	<0.6	---	---
Chloromethane	Probe 205RC	<0.8	<0.8	---	---
Freon 114	Probe 205RC	<0.6	<0.6	---	---
Vinyl Chloride	Probe 205RC	<0.6	<0.6	---	---
1,3-Butadiene	Probe 205RC	<0.8	<0.8	---	---
Bromomethane	Probe 205RC	<0.8	<0.8	---	---
Chloroethane	Probe 205RC	<0.6	<0.6	---	---
Bromoethene	Probe 205RC	<0.8	<0.8	---	---
Acetone	Probe 205RC	56.1	67.2	61.6	9.0
Freon 11	Probe 205RC	<0.6	<0.6	---	---
Isopropyl Alcohol	Probe 205RC	73.8	83.5	78.6	6.2
1,1-Dichloroethene	Probe 205RC	<0.8	<0.8	---	---
Methylene Chloride	Probe 205RC	<0.8	<0.8	---	---
3-Chloro-1-Propene	Probe 205RC	<0.8	<0.8	---	---
Carbon Disulfide	Probe 205RC	<0.6	<0.6	---	---
Freon 113	Probe 205RC	<0.6	<0.6	---	---
trans-1,2-Dichloroethene	Probe 205RC	<0.8	<0.8	---	---
1,1-Dichloroethane	Probe 205RC	<0.8	<0.8	---	---
MTBE	Probe 205RC	<0.8	<0.8	---	---
Vinyl Acetate	Probe 205RC	<1	<1	---	---
2-Butanone	Probe 205RC	<2	<2	---	---

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
cis-1,2-Dichloroethene	Probe 205RC	<0.8	<0.8	---	---
n-Hexane	Probe 205RC	0.85	1.02	0.94	9.1
Chloroform	Probe 205RC	<0.6	<0.6	---	---
Ethyl Acetate	Probe 205RC	<0.8	<0.8	---	---
Tetrahydrofuran	Probe 205RC	<0.8	<0.8	---	---
1,2-Dichloroethane	Probe 205RC	<0.8	<0.8	---	---
1,1,1-Trichloroethane	Probe 205RC	<0.6	<0.6	---	---
Benzene	Probe 205RC	3.70	3.95	3.82	3.3
Carbon Tetrachloride	Probe 205RC	<0.6	<0.6	---	---
Cyclohexane	Probe 205RC	<0.8	<0.8	---	---
1,2-Dichloropropane	Probe 205RC	<0.8	<0.8	---	---
Bromodichloromethane	Probe 205RC	<0.8	<0.8	---	---
Trichloroethene	Probe 205RC	<0.6	<0.6	---	---
1,4-Dioxane	Probe 205RC	<0.8	<0.8	---	---
2,2,4-Trimethyl Pentane	Probe 205RC	<0.8	<0.8	---	---
n-Heptane	Probe 205RC	<0.8	<0.8	---	---
cis-1,3-Dichloropropene	Probe 205RC	<0.8	<0.8	---	---
4-Methyl-2-pentanone	Probe 205RC	<0.8	<0.8	---	---
trans-1,3-Dichloropropene	Probe 205RC	<0.8	<0.8	---	---
1,1-2-Trichloroethane	Probe 205RC	<0.8	<0.8	---	---
Toluene	Probe 205RC	0.96	1.01	0.98	2.5
2-Hexanone	Probe 205RC	<0.8	<0.8	---	---

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
Dibromochloromethane	Probe 205RC	<0.6	<0.6	---	---
1,2-Dibromomethane	Probe 205RC	<0.6	<0.6	---	---
Tetrachloroethene	Probe 205RC	<0.6	<0.6	---	---
Chlorobenzene	Probe 205RC	<0.8	<0.8	---	---
Ethylbenzene	Probe 205RC	<0.6	<0.6	---	---
m,p-Xylene	Probe 205RC	1.24	1.47	1.36	8.5
Bromoform	Probe 205RC	<0.6	<0.6	---	---
Styrene	Probe 205RC	<0.6	<0.6	---	---
1,1,2,2-Tetrachloroethane	Probe 205RC	<0.6	<0.6	---	---
o-Xylene	Probe 205RC	1.20	1.15	1.18	2.1
Benzyl Chloride	Probe 205RC	<0.8	<0.8	---	---
4-Ethyl Toluene	Probe 205RC	<0.6	<0.6	---	---
1,3,5-Trimethyl Benzene	Probe 205RC	<0.6	<0.6	---	---
1,2,4-Trimethyl Benzene	Probe 205RC	0.69	0.65	0.67	3.0
1,3-Dichlorobenzene	Probe 205RC	<0.6	<0.6	---	---
1,4-Dichlorobenzene	Probe 205RC	<0.6	<0.6	---	---
1,2-Dichlorobenzene	Probe 205RC	<0.6	<0.6	---	---
1,2,4-Trichlorobenzene	Probe 205RC	<0.8	<0.8	---	---
Hexachlorobutadiene	Probe 205RC	<0.6	<0.6	---	---

Three Tedlar bag samples, laboratory numbers 11808-(1-3), were analyzed for TO-15 components y GC/MS. Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 8 repeat measurements from the three Tedlar bag samples is 5.5%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: ☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00

PROJECT MANAGER: RAY AL AYASS

PROJECT NAME: SUNSHINE CANYON

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR, CA

SAMPLER NAME AND SIGNATURE:

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	TOC	TAC	H2S	CH4	CO2	ETHANE	TGNMOC			LAB USE ONLY
118090 -1	PROBE 205RC	AIR	06-28-18 13:07	10L TEDLAR	NONE		X	X	X	X	X	X	X			
-2	PROBE 205RD	AIR	06-28-18 13:30	10 L TEDLAR	NONE		X	X	X	X	X	X	X			
-3	PROBE 205RE	AIR	06-28-18 13:40	10 L TEDLAR	NONE		X	X	X	X	X	X	X			

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS	TIME: 1000	COMPANY: DS	TIME: 1000	COMPANY:	TIME:	COMPANY: AfmAA	TIME: 11:00 6/29/18

FORM NO. 107 REV. 3/14 TWIN CONCEPTS

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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: August 6, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: July 27, 2018
Date Analyzed: July 27-30, 2018

AtmAA Lab No.:	12088-10	12088-11	12088-12	12088-13
	P-205R-C	P-205R-D	P-205R-E	P-220B-B
Components	*(Concentration in ppmv)*			
Methane	19500	27400	18800	74.1
Carbon dioxide	446000	472000	387000	90600
Ethane	<5	<5	<5	<1
TGNMO	14.2	14.7	12.2	6.01
Hydrogen sulfide	<0.1	<0.1	1.26	<0.1
	(Concentration in ppbv)			
Benzene	5.42	5.14	1.82	<1
Benzyl chloride	<1.4	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4	<1.4
Dichlorobenzenes*	3.69	3.39	3.36	<3
1,1-dichloroethane	<1.4	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4	<1.4
Dichloromethane	<2	<2	<2	<2
1,2-dibromoethane	<1	<1	<1	<1
Perchloroethylene	<1	<1	<1	2.39
Carbon tetrachloride	<1.4	<1.4	<1.4	<1.4
Toluene	2.58	2.55	2.23	1.40
1,1,1-trichloroethane	<1	<1	<1	<1
Trichloroethene	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1
Vinyl chloride	<1	<1	<1	<1
m+p-xylenes	3.09	2.53	3.00	<1.4
o-xylene	1.62	<1.4	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C.
Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/ total combustion analysis (FID/TCA) Method 25.
Ethane is reported as ppmvC.
TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: July 27, 2018
Date Analyzed: July 27-30, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	P-205R-C	19600	19400	19500	0.51
Ethane	P-205R-C	<5	<5	---	---
TGNMO	P-205R-C	14.0	14.4	14.2	1.4
Hydrogen sulfide	P-205R-C	<0.1	<0.1	---	---
	P-205R-E	1.23	1.30	1.26	2.8
	P-220B-B	<0.1	<0.1	---	---
		(Concentration in ppbv)			
Benzene	P-205R-C	5.51	5.32	5.42	1.8
Benzyl chloride	P-205R-C	<1.4	<1.4	---	---
Chlorobenzene	P-205R-C	<1.4	<1.4	---	---
Dichlorobenzenes	P-205R-C	3.59	3.79	3.69	2.7
1,1-dichloroethane	P-205R-C	<1.4	<1.4	---	---
1,2-dichloroethane	P-205R-C	<1.4	<1.4	---	---
1,1-dichloroethylene	P-205R-C	<1.4	<1.4	---	---
Dichloromethane	P-205R-C	<2	<2	---	---
1,2-dibromoethane	P-205R-C	<1	<1	---	---
Perchloroethene	P-205R-C	<1	<1	---	---
Carbon tetrachloride	P-205R-C	<1.4	<1.4	---	---
Toluene	P-205R-C	2.28	2.87	2.58	11
1,1,1-trichloroethane	P-205R-C	<1	<1	---	---
Trichloroethene	P-205R-C	<1	<1	---	---
Chloroform	P-205R-C	<1	<1	---	---
Vinyl chloride	P-205R-C	<1	<1	---	---
m+p-xylenes	P-205R-C	3.23	2.95	3.09	4.5
o-xylene	P-205R-C	1.84	1.40	1.62	14

Four Tedlar bag samples, laboratory numbers 12088-(10-13), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 8 repeat measurements from four Tedlar bag samples is 4.8%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED:
☑ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00

PROJECT MANAGER: Ray Al Ayass

PROJECT NAME: Sunshine Canyon

W.O. / S.O. #:

PROJECT LOCATION: Sylmar, CA

SAMPLER NAME AND SIGNATURE: Saulo DIAZ -

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	TAC	H_2S	CH_4	CO_2	Ethane	TGNMO			LAB USE ONLY
	Probe 205R-C	AIR	07/26/18 @ 1400 HRS	10L TEDLAR	NONE		X	X	X	X	X	X	X			12058-10
	Probe 205R-D	AIR	07/26/18 @ 1415 HRS	10L TEDLAR	NONE		X	X	X	X	X	X	X			-11
	Probe 205R-E	AIR	07/26/18 @ 1425 HRS	10L TEDLAR	NONE		X	X	X	X	X	X	X			-12
	Probe 220B-B	AIR	07/26/18 @ 1500 HRS	10L TEDLAR	NONE		X	X	X	X	X	X	X			-13

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS	TIME: 1000	COMPANY:	TIME:	COMPANY:	TIME:	COMPANY: Atmaa	TIME:

FORM NO. 107 REV. 3/14 TWIN CONCEPTS

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250
environmental consultants
laboratory services
atmaa.com

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: September 4, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: August 24, 2018
Date Analyzed: August 24, 2018

AtmAA Lab No.:	12368-3	12368-4	12368-5	12368-6
	P-205R-B	P-205R-C	P-205R-D	P-205R-E
Components	*(Concentration in ppmv)*			
Methane	11600	19800	27200	19400
Carbon dioxide	313000	452000	474000	392000
Ethane	<5	<5	<5	<1
TGNMO	7.51	7.97	7.41	7.44
Hydrogen sulfide	0.17	<0.1	<0.1	1.05
	(Concentration in ppbv)			
Benzene	3.35	5.95	5.26	2.94
Benzyl chloride	<1.4	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4	<1.4
Dichlorobenzenes*	3.54	<3	3.33	3.79
1,1-dichloroethane	<1.4	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4	<1.4
Dichloromethane	<2	<2	<2	<2
1,2-dibromoethane	<1	<1	<1	<1
Perchloroethylene	<1	<1	<1	<1
Carbon tetrachloride	<1.4	<1.4	<1.4	<1.4
Toluene	2.66	1.91	2.34	2.02
1,1,1-trichloroethane	<1	<1	<1	<1
Trichloroethene	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1
Vinyl chloride	<1	<1	<1	<1
m+p-xylenes	2.70	1.75	1.89	1.82
o-xylene	1.66	1.43	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C.
Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/ total combustion analysis (FID/TCA) Method 25.
Ethane is reported as ppmvC.
TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.
** total amount containing meta, para, and ortho isomers*

Brian W. Eung
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: August 24, 2018
Date Analyzed: August 24, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	P-205R-B	11600	11600	11600	0.0
Ethane	P-205R-B	<5	<5	---	---
TGNMO	P-205R-B	7.79	7.23	7.51	3.7
Hydrogen sulfide	P-205R-B	0.17	0.17	0.17	0.0
	P-205R-C	<0.1	<0.1	---	---
	P-205R-D	<0.1	<0.1	---	---
	P-205R-E	1.06	1.04	1.05	0.95
		(Concentration in ppbv)			
Benzene	P-205R-B	3.51	3.19	3.35	4.8
Benzyl chloride	P-205R-B	<1.4	<1.4	---	---
Chlorobenzene	P-205R-B	<1.4	<1.4	---	---
Dichlorobenzenes	P-205R-B	3.36	3.73	3.54	5.2
1,1-dichloroethane	P-205R-B	<1.4	<1.4	---	---
1,2-dichloroethane	P-205R-B	<1.4	<1.4	---	---
1,1-dichloroethylene	P-205R-B	<1.4	<1.4	---	---
Dichloromethane	P-205R-B	<2	<2	---	---
1,2-dibromoethane	P-205R-B	<1	<1	---	---
Perchloroethene	P-205R-B	<1	<1	---	---
Carbon tetrachloride	P-205R-B	<1.4	<1.4	---	---
Toluene	P-205R-B	2.50	2.81	2.66	5.8
1,1,1-trichloroethane	P-205R-B	<1	<1	---	---
Trichloroethene	P-205R-B	<1	<1	---	---
Chloroform	P-205R-B	<1	<1	---	---
Vinyl chloride	P-205R-B	<1	<1	---	---
m+p-xylenes	P-205R-B	2.49	2.90	2.70	7.6
o-xylene	P-205R-B	1.57	1.75	1.66	5.4

Four Tedlar bag samples, laboratory numbers 12368-(3-6), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 9 repeat measurements from four Tedlar bag samples is 3.7%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES:

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: ☑ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00

PROJECT MANAGER: Ray Al Ayass

PROJECT NAME: Sunshine Canyon

W.O. / S.O. #:

PROJECT LOCATION: Sylmar, CA

SAMPLER NAME AND SIGNATURE: Saulo Diaz - [signature]

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	TAC	H_2S	CH_4	CO_2	Ethane	TGNMO			LAB USE ONLY
12368-3	Probe 205R-B	AIR	08/23/18@ 1400	1 OL TEDLAR	NONE		X	X	X	X	X	X	X			
-4	Probe 205R-C	AIR	08/23/18@ 1410	1 OL TEDLAR	NONE		X	X	X	X	X	X	X			
-5	Probe 205R-D	AIR	08/23/18@ 1420	1 OL TEDLAR	NONE		X	X	X	X	X	X	X			
-6	Probe 205R-E	AIR	08/23/18@ 1430	1 OL TEDLAR	NONE		X	X	X	X	X	X	X			

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
[signature]	8-24-18	[signature]	8-24-18			[signature]	8/24/18
COMPANY:	TIME:	COMPANY:	TIME: 1010	COMPANY:	TIME:	COMPANY:	TIME:

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environmental consultants
laboratory services
atmaa.com

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: October 11, 2018
Client: SCS Field Services
Project Location: Sunshine Canyon
Project No.: 07218035.00
Date Received: September 28, 2018
Date Analyzed: September 28 & 29, 2018

AtmAA Lab No.:	12718-8	12718-9	12718-10
	P 205R-C	P 205R-D	P 205R-E
Components	*(Concentration in ppmv)*		
Methane	19000	26900	16500
Carbon dioxide	442000	475000	374000
Ethane	<5	<5	<5
TGNMO	12.0	12.1	8.58
Hydrogen sulfide	<0.1	<0.1	1.38
	(Concentration in ppbv)		
Benzene	3.92	4.20	1.75
Benzyl chloride	<1.4	<1.4	<1.4
Chlorobenzene	<1.4	<1.4	<1.4
Dichlorobenzenes*	2.90	3.69	3.56
1,1-dichloroethane	<1.4	<1.4	<1.4
1,2-dichloroethane	<1.4	<1.4	<1.4
1,1-dichloroethylene	<1.4	<1.4	<1.4
Dichloromethane	<2	<2	<2
1,2-dibromoethane	<1	<1	<1
Perchloroethylene	<1	<1	<1
Carbon tetrachloride	<1.4	<1.4	<1.4
Toluene	1.99	2.71	2.34
1,1,1-trichloroethane	<1	<1	<1
Trichloroethene	<1	<1	<1
Chloroform	<1	<1	<1
Vinyl chloride	<1	<1	<1
m+p-xylenes	1.52	1.57	<1.4
o-xylene	<1.4	<1.4	<1.4

Methane was measured by thermal conductivity detection/gas chromatography (TCD/GC), EPA Method 3C. Ethane, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/ total combustion analysis (FID/TCA) Method 25.

Ethane is reported as ppmvC.

TGNMO is total gaseous non-methane, non-ethane organics reported as ppmvC.

** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Sunshine Canyon
Date Received: September 28, 2018
Date Analyzed: September 28 & 29, 2018

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	P 205R-C	19000	19000	19000	0.0
Ethane	P 205R-C	<5	<5	---	---
TGNMO	P 205R-C	11.9	12.1	12.0	0.83
Hydrogen sulfide	P 205R-C	<0.1	<0.1	---	---
	P 205R-E	1.36	1.39	1.38	1.1
		(Concentration in ppbv)			
Benzene	P 205R-C	3.88	3.95	3.92	0.89
Benzyl chloride	P 205R-C	<1.4	<1.4	---	---
Chlorobenzene	P 205R-C	<1.4	<1.4	---	---
Dichlorobenzenes	P 205R-C	2.90	2.90	2.90	0.0
1,1-dichloroethane	P 205R-C	<1.4	<1.4	---	---
1,2-dichloroethane	P 205R-C	<1.4	<1.4	---	---
1,1-dichloroethylene	P 205R-C	<1.4	<1.4	---	---
Dichloromethane	P 205R-C	<2	<2	---	---
1,2-dibromoethane	P 205R-C	<1	<1	---	---
Perchloroethene	P 205R-C	<1	<1	---	---
Carbon tetrachloride	P 205R-C	<1.4	<1.4	---	---
Toluene	P 205R-C	2.02	1.96	1.99	1.5
1,1,1-trichloroethane	P 205R-C	<1	<1	---	---
Trichloroethene	P 205R-C	<1	<1	---	---
Chloroform	P 205R-C	<1	<1	---	---
Vinyl chloride	P 205R-C	<1	<1	---	---
m+p-xylenes	P 205R-C	1.52	1.52	1.52	0.0
o-xylene	P 205R-C	<1.4	<1.4	---	---

Three Tedlar bag samples, laboratory numbers 12718-(8-10), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". The average % difference from mean for 7 repeat measurements from two Tedlar bag samples is 0.62%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES: 3

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: ☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07218035.00

PROJECT MANAGER: RAY AL AYASS

PROJECT NAME: SUNSHINE CANYON LANDFILL

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR, CA

SAMPLER NAME AND SIGNATURE:

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	TAC	H2S	CH4	CO2	ETHANE	TNMOC			LAB USE ONLY
12718 -8	PROBE 205R-C	AIR	9-27-18 @ 13:05 HRS	10 L TEDLAR	NONE		X	X	X	X	X	X	X			
-9																
-10	PROBE 205R-D	AIR	9-27-18 @ 13:15 HRS	10 L TEDLAR	NONE		X	X	X	X	X	X	X			
	PROBE 205R-E	AIR	9-27-18 @ 13:20 HRS	10 L TEDLAR	NONE		X	X	X	X	X	X	X			

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS	TIME: 1017	COMPANY:	TIME: 1012	COMPANY:	TIME:	COMPANY:	TIME: 1152

FORM NO. 107 REV. 3/14 TWIN CONCEPTS

ATTACHMENT D

DOGGR WELL RECORDS

PROPERTY/WELL TRANSFER OR ACQUISTION

TEXACO E. & P. INC. – T1600

TO

CHEVRONTEXACO EXPL. & PROD., CO. – C5680

TRANSFER EFFECTIVE AUGUST 22, 2002

CHEVRONTEXACO EXPL. & PROD., CO. – C5680

TO

CHEVRON U.S.A. INC. – C5640

TRANSFER EFFECTIVE JULY 11, 2005

ESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF WELL PLUGGING AND RE-ABANDONMENT

Ventura, California

July 8, 1997

Cheryl S. Grayson
Grayson Services, Inc.
4004 S. Enos Lane
Bakersfield, CA 93312

Your report of the plugging and re-abandonment of well Texaco, Inc. "Eadie" 1,

A.P.I. No. 037-06077, Section 23, T. 3N, R. 16W, SBB.& M.,

---------- field, Los Angeles County,

dated June 23, 1997, received June 25, 1997, has been examined in conjunction with records filed in this office. We have determined that all of the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and the filing of well records.

William F. Guerard, Jr
State Oil and Gas Supervisor

By _____
Patrick J. Kinnear
Deputy Supervisor

tkc

cc: Update

Modified OG159 (4/94)

OPERATOR Texaco
WELL NO. "Eadie" 1
MAP

A.P.I. 037-06077
SECTION 23, T. 3 N, R. 16 W

INTENTION	Suppl Abd.	Suppl Abd.	Suppl Abd.			
NOTICE DATED	—	9-16-93	6-2-97			
P-REPORT NUMBER	292.06F	293.349	[illegible]			
CHECKED BY/DATE						
MAP LETTER DATED						
SYMBOL			NDD *			

	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED
NOTICE	3-6-92		9-20-93		6-11-97							
HISTORY					6-25-97							
SUMMARY												
E-LOG												
MUD LOG												
DIPMETER												
DIRECTIONAL												
CORE/SWS												
CBL												

ENGINEERING CHECK

T-REPORTS			✓			
OPERATOR'S NAME			✓			
WELL NO.			✓			
LOC & ELEV			✓			
SIGNATURE			OK ✓			
SURFACE INSP.						
DRILL CARD						
RECORD'S COMPLETE			SF			

FINAL LETTER OK
MAILED
RELEASED BOND

INJECTION BOOK
IDLE WELL LIST
SURFACE INSP. CARD

REMARKS: * COORDINATES NOT COMPATABLE WITH MAP GRID.

OK TO RELEASE FROM CONFIDENTIAL
ABANDONED-REMOVED FROM E.D.P.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. T297-129

Report on Operations

Cheryl S. Grayson
GRAYSON SERVICES, INC.
4004 S. Enos Lane
Bakersfield, CA 93312

Ventura, California
July 8, 1997

Texaco, Inc.

Your operations at well "Eadie" 1, API No. 037-06077, Sec. 23, T. 3N, R. 16W, S.B. B.&M. ---------- Field, in Los Angeles County, were witnessed on 6-10-97. Steve Mulqueen, representative of the supervisor, was present from 1000 to 1200. There were also present Bob Grayson, Jr.

Present condition of well: 11 3/4" cem 500'. TD 8011'. Plugged w/ cem 850'-766', 530'-400' & 200'-5'.

The operations were performed for the purpose of re-abandonment.

DECISION:

The plugging operations as witnessed and reported are approved.

tkc

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____

Patrick J. Kinnear
Deputy Supervisor

OG109 (Modified 1993)

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CEMENTING/PLUGGING MEMO

5 T129

Texaco, Inc.

Operator GRAYSON SERVICES, INC. Well No. "Eddie" 1

API No. 037 - 06077 Sec. 23, T. 3N, R. 16W, SB B&M

Field —, County LOS ANGELES. On 6 - 10 - 97,

Mr. ~~Mrs.~~ STEVE MULQUEEN, representative of the supervisor, was present from 1000 to 1200.

There were also present BOB GRAYSON, JR.

Casing record of well: 11 3/4" cem 500'. TD 8011. Plugged w/ cem 850' - 766', 530' - 400' & 200' - 5'.

The operations were performed for the purpose of RE- ABANDONMENT

☐ The plugging/cementing operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ _____' are approved.

Hole size: _____" fr. _____' to _____'; _____" to _____' & _____" to _____'

Casing				Cemented			Top of Fill		Squeezed Away	Final Press.	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Casing/tubing recovered: _____" shot/cut at _____', _____', _____' pulled fr. _____';

_____" shot/cut at _____', _____', _____' pulled fr. _____'.

Junk (in hole): _____

Hole fluid (bailed to) at _____'. Witnessed by _____

Mudding	Date	bbls.	Displaced	Poured	Fill	Engr.
CLAY GEL (OLD THICK MUD)	6-9-97	—			CIRCULATED TO SURFACE	SPM

CLEAN OUT TO 205'

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt/Sample	Date & Time	Engr.
6-9-97	140 cf	TBG @ 200'	1500	SPM	5'	VISUAL	6/10 1100	SPM

OGD10 (11/93/GSR1/5M)

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Grayson Service Inc. Field Newhall County Los Angeles
Well Eadie #1, Sec. 23, T 3N, R 16W, MD B. & M.
A.P.I. No. 037-06077 Name Bob Grayson (Person submitting report) Title V. Pres. (President, Secretary, or Agent)
Date 6/23/97, 19

Signature Bob Grayson

4004 S. Enos Lane Bakersfield, Calif. 93312 (Address) (805) 589-5444 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Date	
6/6/97	(Make Location) M.I.R.U. Installed well head and B.O.P.E. Drilled with 6" bit 2'to 12' in cement, broke thru cement. Cleaned out mud 12' to 40'. P.O.H. Changed out to 9 7/8" bit. Clean out to 40'. Closed well in.
6/9/97	R.I.H. and clean out to 205'. Circulated with water. Drill pipe @ 200'. Mix and pump 140 cubic feet of neat cement with returns to surface.
6/10/97	Cut off casing @ 5' Weld on steel plate and back fill.

RECEIVED
JUN 25 1997
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
VENTURA, CALIFORNIA

Kenyon Engineering, Inc.
ENGINEERING • PLANNING • SURVEYING
12138 INDUSTRIAL BLVD., SUITE 240
VICTORVILLE, CA 92392
(619) 241-6146
FAX: (619) 241-0566

RECEIVED
JUN 16 1997

June 12, 1997

BROWNING FERRIS INDUSTRIES
ATTN: BRAD COOLEY
14747 San Fernando Road
Sylmar, CA 91342

RE: OIL WELLS

Dear Brad:

Pursuant to our conversation here are the coordinates and elevations for the capped oil wells.

OIL WELL IN NORTH CANYON	PADUA # 1
N 33534.11	
E 32508.41	
EL 1686.10	

OIL WELL AT TOP OF CUT	EADIE # 1
N 33093.26	
E 29181.64	
EL 2132.46	

If you should have any questions pertaining to the above please feel free to contact our office.

Thank you!

Sincerely,
KENYON ENGINEERING, INC.

Craig L. Johnson
Project Manager

CLJ:cb

RECEIVED
JUN 25 1997
GEOTHERMAL RESOURCES
VENTURA, CALIFORNIA

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. P297-226

PERMIT TO CONDUCT WELL OPERATIONS

---- (field code)
--- (area code)
--- (new pool code)
--- (old pool code)

Cheryl S. Grayson
Grayson Services, Inc.
4004 S. Enos Lane
Bakersfield, CA. 93312

Ventura, California
June 13, 1997

Your supplementary proposal to abandon well "Eadie" 1 Texaco Inc.,
A.P.I. No. 037-06077, Section 23, T. 3N, R. 16W, S.B. B.&M.,
---------- field, ---------- area, ---------- pool,
Los Angeles County, dated 6/2/97, received 6/11/97, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. THIS DIVISION SHALL BE NOTIFIED:
   a. To witness cementing operations.

SAF:sf

Engineer Steven A. Fields

Phone (805) 654-4761

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____

Patrick J. Kinnear
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG111 (Modified 1993)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

SUPPLEMENTARY NOTICE

FOR DIVISION USE ONLY			
BOND	FORMS		EDP WELL
	OGD114	OGD121	FILE
		✓	

A notice to the Division of Oil and Gas dated FEB 28, 19 92, stating the intention to

ABANDON (Drill, rework, abandon) well TEXACO INC. EADIE #1 (Well designation), API No. 037-06077,

Sec. 23, T. 3N, R. 16W, ____ B.& M., NEWHALL Field,

LOS ANGELES County, should be amended because of changed conditions.

1. The complete casing record of the well (present hole), including plugs and perforations, is as follows:

11 3/4" CASING TO 500'

PLUGGED WITH CEMENT 850'-766', 530'-400', 15'-5'

2. The total depth is: 8011 feet. The effective depth is: _____ feet.

3. Present completion zone (s): _____ (Name). Anticipated completion zone (s): _____ (Name).

4. Present zone pressure: _____ psi. Anticipated/existing new zone pressure: _____ psi.

We now propose: *(A complete program is preferred and may be attached.)*

1. M.I.R.U.
2. DRILL OUT SURFACE PLUG FROM 15'-5'.
3. PLUG WITH CEMENT FROM 200' TO SURFACE.
4. WELD ON STEEL PLATE.

RECEIVED
JUN 11 1997
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
VENTURA, CALIFORNIA

Note: If the well is to be redrilled, show proposed bottom-hole coordinates and estimated true vertical depth.
The Division must be notified if changes to this plan become necessary.

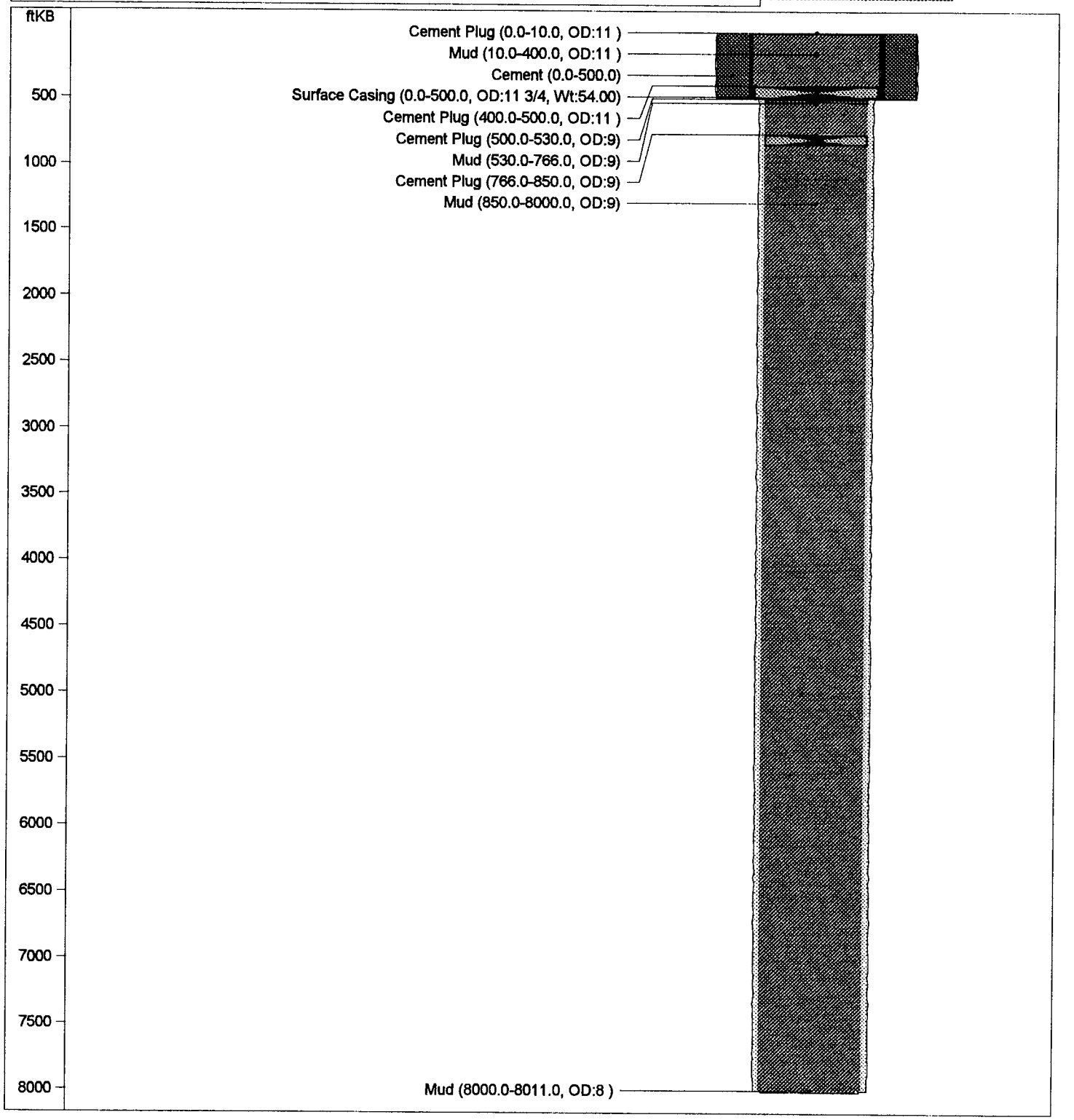
Name of Operator	Telephone Number	
GRAYSON SERVICE INC.	(805) 399-6300	
Address	City	Zip Code
4004 S. ENOS LANE	BAKERSFIELD	93312
Name of Person Filing Notice	Signature	Date
BOB GRAYSON	Bob Grayson	6-2-97

File In Duplicate

OG123 (3/90/GSR1/5M)

04037060770000	
Well Name	EADIE 1
Operator	TEXACO E & P INC
Field Name	ANY FIELD
TD	8011.0 ftKB
PBTD	0.0 ftKB
Approval Date	22-Jul-53
Spud Date	16-Aug-53
TD Date	13-Nov-53
Production Date	
Injection Date	
P/A Date	13-Nov-53

Division of Oil & Gas Conservation



6/2/97

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

REPORT OF CORRECTION OR CANCELLATION

Ventura, California

October 24, 1996

Brand Burfield
PRA Group
2495 Industrial Parkway West
Hayward, CA 94545

In accordance with Division 3 of the Public Resources Code, Section 3202 - If operations have not commenced within one year of receipt of the notice, the notice will be considered canceled.

the following changes pertaining to your well Texaco Inc. "Eadie" 1 (Well Designation)
---------- field, Los Angeles County,

Sec. 23, T. 3N, R. 16W, S.B. B.&M., is being made in our records:

__ The corrected location is _____

_____

__ The corrected elevation _____

__ Report No. _____, dated _____, has been corrected as follows:

_____

_____

_____

XX Your notice to abandon (Drill, abandon, etc.) dated September 16, 1993 and our report No. P293-349 issued in answer thereto, are hereby canceled inasmuch as the work will not be done. If you have a drilling bond on file covering this notice it will be returned. No request for such return is necessary.

__ Other: _____

_____

_____

tkc

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____
Patrick J. Kinnear
Deputy Supervisor

OG165 (Modified 6/94)

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

WELL STATUS INQUIRY

Ventura, California

September 28, 1994

Brand Burfield
PRA Group
2495 Industrial Parkway West
Hayward, CA 94545

In a notice dated September 16, 1993, you propose to abandon well Texaco, Inc. "Eadie" 1 (037-06077) Sec. 23, T. 3N, R. 16W, S.B. B. & M., Los Angeles County.

Please indicate below, conditions or intentions regarding this proposed work and return the completed form to this office within 10 days.

svl

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____
Patrick J. Kinnear
Deputy Supervisor

_____ **PROPOSED WORK HAS BEEN DONE.** (If you check this space, please file the required well records on this work in duplicate within 60 days after work was completed.*)

_____ **PROPOSED WORK IS IN PROGRESS AND SHOULD BE COMPLETED ABOUT** _____ 19___

_____ **PROPOSED WORK HAS NOT BEEN DONE, BUT WE STILL INTEND TO DO THE WORK.****

____ **SUPPLEMENTARY NOTICE (Form OG 123) Attached).**

____ **PLEASE CONSIDER THIS FORM AS A SUPPLEMENTARY NOTICE.**

_____ **WE DO NOT INTEND TO DO THE PROPOSED WORK. Please cancel our notice to** _____, dated _____ 19___.

_____ **OTHER:** _____

_____
(Signature)

_____
(Name and Title) (Date)

* Division 3 of the Public Resources Code states in part:
Section 3215...Well records shall be filed 60 days after completion or suspension of proposed work.

** Section 3203...If operations have not commenced within one year or receipt of the notice, the notice will be considered canceled. (To prevent cancellation, file a Supplementary Notice with the division)

ODG3 (modified 9/93)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. P293-349

PERMIT TO CONDUCT WELL OPERATIONS

--
(field code)
--
(area code)
--
(new pool code)

(old pool code)

Brand Burfield
PRA GROUP
2495 Industrial Parkway West
Hayward, CA. 94545

Ventura, California
September 22, 1993

Your supplementary proposal to abandon well Texaco, Inc. "Eadie" 1, A.P.I. No. 037-06077, Section 23, T. 3N, R. 16W, S.B. B.&M., --- field, --- area, --- pool, Los Angeles County, dated 9/16/93, received 9/20/93, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Requirements specified in permit No. P292-068, dated March 11, 1992 shall apply.

cc: Texaco, Inc.

NO BOND REQUIRED

Engineer Steven A. Fields

Phone (805) 654-4761

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____
Patrick J. Kinnear
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG111 (Modified 1993)

344

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
WELL STATUS INQUIRY

Ventura, California

September 14, 1993

Brand Burfield
PRA GROUP
2495 Industrial Parkway West
Hayward, CA. 94545

In a notice not dated, you propose to reabandon
Texaco E&P Inc. "Edie" 1 (037-06077) Sec. 23, T. 3N, R. 16W, S.B. B.& M.,
Los Angeles County.

Please indicate below, conditions or intentions regarding this proposed work and return the completed form to this office within 10 days.

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____
Patrick J. Kinnear
Deputy Supervisor

_____ **PROPOSED WORK HAS BEEN DONE.** (If you check this space, please file the required well records on this work in duplicate within 60 days after work was completed.*)

_____ **PROPOSED WORK IS IN PROGRESS AND SHOULD BE COMPLETED ABOUT** _____ 19___

_X_ **PROPOSED WORK HAS NOT BEEN DONE, BUT WE STILL INTEND TO DO THE WORK.****

___ **SUPPLEMENTARY NOTICE (Form OG 123) Attached).**

_X_ **PLEASE CONSIDER THIS FORM AS A SUPPLEMENTARY NOTICE.**

_____ **WE DO NOT INTEND TO DO THE PROPOSED WORK. Please cancel our notice to** _____, dated _____ 19___.

_____ **OTHER:** _____

(Signature)

BRAND BURFIELD - STAFF GEOLOGIST 9/16/93
(Name and Title)

DIVISION OF OIL AND GAS
RECEIVED
SEP 20 1993
VENTURA, CALIFORNIA

* Division 3 of the Public Resources Code states in part:
Section 3215...Well records shall be filed 60 days after completion or suspension of proposed work.

** Section 3203...If operations have not commenced within one year or receipt of the notice, the notice will be considered canceled.
(To prevent cancellation, file a Supplementary Notice with the division)

ODG3 (modified 9/93)

PRA Group
CONSULTING ENGINEERS

No. GB-100/G202-07
September 17, 1993

State of California-Resources Agency
Department of Conservation
Division of Oil and Gas
1000 S. Hill Road, Ste. 116
Ventura, CA 93003-4458

Attention: Mr. Steve Fields

SUBJECT: Transmittal of Well Status Inquiry Forms for Proposed Oil Well Abandonment at the Sunshine Canyon Sanitary Landfill, Sylmar, California.

Dear Mr. Fields:

We have received the Well Status Inquiry forms sent to us by your office, dated September 14, 1993. It is still our intention to abandon the oil wells prior to construction of the proposed landfill expansion at the subject site. Due to unforeseen delays in the construction schedule, it has been necessary to postpone the proposed oil well abandonment program. Enclosed with this letter are the completed well status inquiry forms for the proposed oil well abandonment at the subject site. We will notify you as soon as a tentative schedule for well abandonment is set up.

Thank you for your consideration. If you have any questions, please contact this office.

Very truly yours,

THE PRA GROUP, INC.

Brand W. Burfield
Staff Geologist

Irving D. Affeldt
Principal

bwb/G20207.1

enclosures: Well Status Inquiry forms (10 total)

DIVISION OF OIL AND GAS
RECEIVED
SEP 2 [illegible]
VENTURA, CALIFORNIA

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

No. P292-068
Field Code --
Area Code --
New Pool Code --
Old Pool Code --

PERMIT TO CONDUCT WELL OPERATIONS

PRA GROUP, CONSUL. ENGINEERS
2495 Industrial Parkway West
Hayward, California 94545

Ventura, California
March 11, 1992

Your supplementary proposal to abandon well TEPI/"Eadie" 1,
A.P.I. No. 037-06077, Section 23, T. 3N, R. 16W, S.B. B.&M.,
---------- field, ---------- area, ---------- pool,
Los Angeles County, dated -----, received 3/6/92, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout prevention equipment conforming to DOG Class I 1M requirements shall be installed and maintained in operating condition at all times.
2. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
3. This office shall be consulted before deviating from the proposed abandonment program.
4. THIS DIVISION SHALL BE NOTIFIED:
   a. To witness the placing of the surface plug or to verify its location.

NOTE: Please have well surveyed by a licensed surveyor and submit results to this office.

SF:tkc
cc: Texaco E. & P. Inc.

Engineer Steve Fields

Phone (805) 654-4761

K.P. HENDERSON, Acting Chief

By Patrick J. Kinnear
Patrick J. Kinnear
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.
OG111

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

SUPPLEMENTARY NOTICE

FOR DIVISION USE ONLY			
BOND	FORMS		EDP WELL
	OGD114	OGD121	FILE
		✓	✓

A notice to the Division of Oil and Gas dated February 28th, 19 92, stating the intention to

abandon (Drill, rework, abandon) well "Eadie" #1 (Well designation), API No. 037-06077,

Sec. 23, T. 3 N, R. 16 W, S.B. B.&M., ~~Newhall~~ Los Angeles Sp. Field,

Los Angeles County, should be amended because of changed conditions.

1. The complete casing record of the well (present hole), including plugs and perforations, is as follows:

11-3/4" casing to 500'.
Plugged with cement from 850'-766', 530'-400', and 15'-5'.

2. The total depth is: 8011 feet. The effective depth is: _____ feet.

3. Present completion zone (s): _____ (Name) Anticipated completion zone (s): _____ (Name).

4. Present zone pressure: _____ psi. Anticipated/existing new zone pressure: _____ psi.

We now propose: *(A complete program is preferred and may be attached.)*

The proposed work program is attached to this permit.

DIVISION OF OIL AND GAS
RECEIVED
MAR 06 1992
VENTURA, CALIFORNIA

Note: If the well is to be redrilled, show proposed bottom-hole coordinates and estimated true vertical depth.
The Division must be notified if changes to this plan become necessary.

Name of Operator	Telephone Number	
PRA Group	(510) 732-9890	
Address	City	Zip Code
2495 Industrial Parkway West	Hayward	94545
Name of Person Filing Notice	Signature	Date

File In Duplicate

OG123 (3/90/GSR1/5M)

DIVISION OF OIL AND GAS
RECEIVED
MAR 0 6 1992
VENTURA, CALIFORNIA

No. GB-100/G102-23
February 28, 1992

Proposed Work Program

1. Locate oil wells.

2. Drill out existing surface seal and drilling mud from each oil well casing to a depth of approximately 60 feet below existing grade.

3. Reabandon each oil well by installing a new surface seal of tremied cement grout into the upper 60 feet of each oil well casing.

PRA Group
CONSULTING ENGINEERS

DIVISION OF OIL AND GAS
RECEIVED
MAR 0 6 1992
VENTURA, CALIFORNIA

No. GB-100/G102-23
February 28, 1992

Department Of Conservation
Division Of Oil And Gas
1000 S. Hill Road, Suite 116
Ventura, CA 93003-4468

Attention: Mr. Steve Fields

SUBJECT: Confirmation of Telephone Conversation Regarding Abandonment of Oil Wells at the Proposed Sunshine Canyon Sanitary Landfill County Extension, Los Angeles County, California.

Dear Mr. Fields:

With regards to our telephone conversation of February 7, 1992, I would like to confirm in writing our discussion regarding the procedure to be followed during oil well abandonment. Construction is scheduled to begin at the landfill extension site very soon and it is important to us that our oil well abandonment program run as smoothly as possible.

It is our understanding that the current standards for the abandonment of oil wells approved by the Division of Oil and Gas (DOG) state that the well must have neat cement grout seals across the producing interval, the saltwater/freshwater interface (if applicable), and at the surface. During our phone conversation, we also discussed the available DOG abandonment records and concluded that six of the eight wells at the subject site (Newhall Field, well nos. 53, 54, 55, 56, 57 and 61) were abandoned to current DOG standards. The abandonment records for the other two wells (Newhall Field, well nos. 59 and 63) are incomplete.

It is proposed to replace the existing surface seals in all of the oil wells with new seals deep enough not to be undercut by the proposed earthwork. In our conversation, I confirmed that it would be acceptable to the DOG if the well casing was drilled out to a depth of 60 feet below grade and a new neat cement surface seal was installed. It is our understanding that it will not be necessary for DOG personnel to perform leak testing since our plan is to replace the surface seals.

Enclosed with this letter are permit applications for the proposed work at the subject site. Thank you for your prompt consideration. If you have any questions, please contact this office.

Very truly yours,

THE PRA GROUP, INC.

Brand Burfield
Staff Geologist

Irving D. Affeldt, CEG 1108
Principal

bwb/G10223.DOG

enclosures: Permit applications for oil well abandonment

FORM 159 (9-49)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

REPORT OF WELL ABANDONMENT

Los Angeles 15, California, January 27, 1954

Mr R L Jackson
The Texas Co
P O Box 320
Long Beach 1 California

Dear Sir

Your report of abandonment of Well No. "Radie" 1, Sec. 23, T. 3 N, R. 16 W, S B B. & M., Newhall oil field, Los Angeles County, dated December 16, 1953, has been examined in conjunction with records filed in this office.

A review of the reports and records shows that the requirements of this Division, which are based on all information filed with it, have been fulfilled.

MAP	MAP BOOK	CARD	BOND	FORMS 114	FORMS 121
18A gelt	gelt		[illegible]		[illegible]

Yours truly

R. D. BUSH
State Oil and Gas Supervisor

By R. W. Walling
Deputy Supervisor

cc Mr R D Bush
Company
Conservation Committee
orig Mr R F Cory

es

82601 7-53 6700 SPO

FORM 100. 7-48
CALIFORNIA STATE PRINTING OFFICE

SUBMIT LOG IN DUPLICATE
FILL THIS BLANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF PAPER ONLY

DIVISION OF OIL AND GAS
RECEIVED
JAN 7 1954
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

Operator The Texas Company Field (Weldon Canyon) Rincon

Well No. Eadie #1 Sec. 23, T. 3N, R. 16W, S.B. B. & M.

Location 2425.28' S along Sec. line and 1482.21' W at rt. angles to said line from the NE cor. of Sec. 23, T3N, R16W, SBB&M

Elevation above sea level 2137.1 feet.

All depth measurements taken from top of Kelly Bushing which is 11.5 feet above ground.

In compliance with the provisions of Chapter 93, Statutes of 1939, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date December 16, 1953

Signed [signature]

[signature] (Engineer or Geologist)

R. L. Fabton (Superintendent)

Title Superintendent (President, Secretary or Agent)

Commenced drilling 8-16-53 Completed drilling 11-13-53 Drilling tools Cable Rotary

Total depth 8011' Plugged depth 0

Junk

GEOLOGICAL MARKERS — DEPTH

Commenced producing Abandoned (date) Flowing/gas lift/pumping (cross out unnecessary words)

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production						
Production after 30 days						

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cementing if through perforations
11 3/4"	500'	surf	54#	New	Smls	J-55	17 1/2	450	

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

Electrical Log Depths 500' to 8011' (Attach Copy of Log)

FORM 103.
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JAN 7 1954
LOS ANGELES, CALIFORNIA

History of Oil or Gas Well

OPERATOR The Texas Company FIELD Weldon Canyon

Well No. Eadie #1, Sec. 23, T. 3N, R. 16W, S.B. B. & M.

Signed

Date December 16, 1953 Title Superintendent
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. **Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production.** Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date

1953

DRILLING CONTRACTOR - FOWLER DRILLING CO.

8-16 Spudded in at 11:00 P.M. in 11" hole.

8-17 Lost circulation at 114', regained circulation at 130'. Drilled ahead with partial circulation.

8-18 Drilled 11" hole to 496' opened 11" hole to 17½" from 0 to 267'. Lost circulation at 175'. Mixed lost circulation material and regained circulation at 205'.

8-19 Opened hole to 17½" to 496' and drilled to 500'. Ran 12 joints, 11¾", 54#, casing, 503' overall including Baker Float shoe. Cemented at 500 K.B. with 450 sacks Construction cement mixed with 3% gel. Used 1 top rubber plug. Displaced with 322 cu. ft. of mud. Did not bump plug. No cement return to surface. Cement in place at 11:15 P.M. B. J. Equipment.

8-20 Cement set 2 hours. Ran 200 feet of 2" pipe on outside of the casing to top of cement. Pumped in 80 sacks cement. Set 2 hours then pumped in 70 sacks. Got cement returns to surface. In place 4:30 A.M.

8-22 Installed blowout prevention equipment and tested at 1500 psi. Drilled 9-7/8" hole ahead. Mud weight, 73; viscosity, 43; sand, 2%; water loss, 9 cc.

8-25 Drilled 9-7/8" hole to 1446'. Cored with 8⅜" core barrel from 1446 to 1462'. Recovered 3'. Drilled 8½" hole to 1568'.

8-26 Opened 8½" hole to 9-7/8" from 1446' to 1568' and drilled to 1900'.

8-27 Circulated and conditioned mud for electric log. Drilled 9-7/8" hole ahead to 2075'.

8-29 Cored 8½" hole from 2075' to 2166'. Mud weight, 76; viscosity, 48; sand, 1.5%; water loss 4.5 cc.

9-1 Drilled 8½" hole to 2435', cored 8½" hole from 2435' to 2455' then drilled 8½" hole ahead to 2604'.

Page 23 ... Wetzon Energy

December 15, 1953 ... Superintendent

DRILLING CONTRACT - KONIGSKI MATERIAL CO.

Spudded at 11:00 p.m. on 12" hole.

Lost circulation material (LCM), regular consistency at 530'. Drilled ahead with partial returns.

Drilled 11" hole to 1960' opened 17" hole to 1748'. Ream 0 to 2527'. Lost circulation at 2527'. Mixed LCM consistency and pumped 50 bbl pill. Regained full returns at 2531'.

Opened hole to 17½" to 1960' and drilled to 2001'. Run 17 joints, 13⅜" 54.5# casing to 1960'. Cemented with 1500 sx 65/35 cement, 6% gel, 3% salt, 1/4 lb/sx flocele. Displaced with 1 top rubber plug. Displaced with 120 bbl mud. Bumped at 11:35 p.m. Good returns throughout. No cement to surface. Ran temp survey 2 hours later. Top of cement at 1200'.

Waited on cement 18 hours. Run 200 joints of 9⅝" casing to 8000'. Ran 17 joints, 13⅜" 54.5# casing to 1960'. Cemented with 1500 sx 65/35 cement, 6% gel, 3% salt, 1/4 lb/sx flocele. Displaced with 120 bbl mud. Bumped at 11:35 p.m. Good returns throughout. No cement to surface. Ran temp survey 2 hours later. Top of cement at 1200'.

Drilled 9-7/8" hole to 8000'. Ran 200 joints of 7" 23# casing to 8000'. Cemented with 1000 sx 50/50 pozmix, 2% gel, 18% salt, 1/4 lb/sx flocele. Displaced with 310 bbl mud. Bumped plug at 2:30 a.m. Good returns throughout. Cement in place at 3:15 a.m.

Drilled 6⅛" hole to 8200'. Ran 10 joints of 4½" 11.6# liner to 8200'. Cemented with 200 sx 50/50 pozmix, 2% gel, 18% salt, 1/4 lb/sx flocele. Displaced with 120 bbl mud. Bumped plug at 4:45 a.m. Good returns throughout. Cement in place at 5:30 a.m.

Opened 6⅛" hole to 9,170' from 7918' to 8250' and drilled to 9170'.

Drilled 9-7/8" hole to 7918'. Stuck at 7918' from 7900' to 7918'. Worked pipe free. Circulated and conditioned mud for electrolog. Drilled 9-7/8" hole ahead to 8250'.

Logged well with Schlumberger. Ran 200 joints of 7" 23# casing to 8000'. Cemented with 1000 sx 50/50 pozmix, 2% gel, 18% salt, 1/4 lb/sx flocele. Displaced with 310 bbl mud. Bumped plug at 2:30 a.m. Good returns throughout. Cement in place at 3:15 a.m.

Drilled 6⅛" hole to 9,170'. Ran 10 joints of 4½" 11.6# liner to 8200'. Cemented with 200 sx 50/50 pozmix, 2% gel, 18% salt, 1/4 lb/sx flocele. Displaced with 120 bbl mud. Bumped plug at 4:45 a.m. Good returns throughout. Cement in place at 5:30 a.m.

DIVISION OF OIL AND GAS
RECEIVED
JAN 7 1954
LOS ANGELES, CALIFORNIA

9-2 Opened 6½" hole to 9-7/8" from 2075' to 2298'. Ran electric log.

9-4 Drilled 9-7/8" hole to 2806' changed to 8½" Reed core barrel and cored ahead to 2882'.

9-5 Ran electric log and hole caliper. Mud weight, 77; viscosity, 45; sand, ½" water loss 4 cc.
Ran DPT #1. Set packer at 2815' tail to 2882'. Medium blow for 1 hour. Gas in 15 minutes. Recovered 310' of gassy thin mud. Salinity 3020 ppg. B.H.F.P. 200 psi B.H.S.P. 200 psi.

9-6 Opened 6½" hole to 9-7/8" from 2806' to 2882' and drilled to 2950', changed to 8½" Reed corehead and cored from 2950' to 3005'.

9-7 Ran electric log and hole caliper.
Ran H.F.T. #2, set packer 2955' tail to 3005. Open 75 minutes, medium blow declined steadily. Gas in 25 minutes. Recovered 1750' of gassy muddy water. Salinity 1110 ppg. B.H.F.P. 900 psi B.H.S.P. 880 psi. Incomplete build up.

9-9 Opened 6½" hole to 9-7/8" from 2950' to 3005'.

9-11 Drilled 9-7/8" hole to 3490' changed to 8½" Reed corehead and cored from 3490' to 3523' changed to 9-7/8" bit and drilled ahead.

9-12 Mud weight, 79; viscosity, 43; sand, 3%; water loss, 6 cc.

9-15 Drilled 9-7/8" hole to 3856' changed to 8½" corebarrel and cored to 3873' changed to 9-7/8" bit and drilled ahead.

9-19 Mud weight, 81; viscosity, 45; sand, 3%; water loss, 6.4 cc.

9-22 Cored 9-7/8" hole from 4643' to 4653'.

9-26 Mud weight, 81; viscosity, 48; sand, 4%; water loss, 7 cc.

9-27 Reamed from 5286' to 5316'.

9-30 Drilled to 5526' and cored 9-7/8" hole from 5526' to 5544'.

10-3 Mud weight, 81; viscosity, 48; sand, 4%; water loss 6 cc.

10-4 Drilled to 6054', cored from 6054' to 6073' in 9-7/8" hole.

10-10 Drilled 9-7/8" hole to 6508'. Cored from 6508' to 6514' in 9-7/8" hole. Mud weight, 82; viscosity, 45; sand, 4%; water loss, 6 cc.

10-13 Drilled to 6660', cored 9-7/8" hole from 6660' to 6668', drilled ahead in 9-7/8" hole.

10-17 Mud weight, 82; viscosity, 46; sand, 4%; water loss, 7 cc.

10-18 Cored from 6990' to 7000' with 9-7/8" bit. Ran Schlumberger electric log, side wall sampler and dip meter.

10-19 Drilled 8-1/2" hole to 7042' opened hole to 9-7/8" from 7000' to 7042'.

10-24 Mud weight, 82; viscosity, 47; sand, 2%; water loss, 6 cc. Drilled 9-7/8" hole to 7367'.

10-28 Drilled 9-7/8" hole to 7606'.

10-29 Cleaned out 50' cavings. Hole filling with fractured shale. Raised mud weight to 90# per cu. ft.

10-31 Drilled 9-7/8" hole to 7716'. Tight hole from 7600' to 7500'. Pulled up to 5000' to circulate and lost circulation. Ran in hole and circulated at intervals, lowered mud weight from 88 to 80 lbs per cu. ft. Regained circulation. Shale running at 7200' to 7400'. Lowered water loss of the mud.

11-1 Reamed from 7290' to 7450'. Tried to stop shale from coming in 7430' to 7450'. Mud weight, 80; viscosity, 62; sand, 2%; water loss, 5 cc. Changed to emulsion type mud.

11-2 Conditioned hole, shale running. Mud weight 80#; viscosity 65 to 90 seconds, sand 2%; water loss 3.3 cc in 30 minutes.

11-3 Conditioned mud and hole. Shale stopped running. Mud weight 80 to 81#; viscosity 80 to 95 seconds; sand, 2%; water loss 2.0 cc in 30 minutes.

11-4 Drilled 9-7/8" hole ahead.

11-7 Drilled 9-7/8" hole to 7879'. Ran Schlumberger electric log and side wall sampler. Sidewall sampler stuck at 2009'. Ran socket as drill pipe and released sampler.

11-8 Drilled 9-7/8" hole to 7905'. Cored 8½" hole from 7905' to 7913'. Mud weight, 80; viscosity, 115; sand, 2%; water loss, 3 cc.

11-9 Cored from 7913' to 7923'. Opened 8½" rat hole to 9-7/8" from 7905' to 7923'.

11-11 Drilled 9-7/8" hole to 8000' changed to 8½" corehead and cored from 8000' to 8011'.

11-12 Ran Schlumberger electric log. Hung 4½" drill pipe at 850'. Pumped in 75 sacks Construction cement with 2% calcium chloride. Cement in place 11:10 A.M. Cement set 6 hours. Top of plug 766'. Approved by D.O.G. Plug job #2: Hung pipe at 530'. Pumped in 75 sacks cement. In place at 8:00 P.M.

11-13 Located top of plug #2 at 400'. Placed 10 lineal feet of cement in 11¾" casing at surface and welded on steel plate. Rig released at 9:00 A.M.
Well abandoned.

The Texas Company

Eagle #2

Golden Canyon

Section 23 T3N R6W

DIVISION OF OIL AND GAS
RECEIVED
JAN 7 1954
LOS ANGELES, CALIFORNIA

INCLINATIONS

Depth	Degrees of Drift
100'	0 degrees 30 minutes
249'	0 degrees 45 minutes
400'	¼ degree
596'	¼ degree 30 minutes
696'	¼ degree 30 minutes
790'	¼ degree 15 minutes
850'	¼ degree
1010'	¼ degree 15 minutes
1090'	0 degrees 45 minutes
1230'	¼ degree 30 minutes
1300'	¼ degree
1396'	¼ degree 45 minutes
1477'	¼ degree 30 minutes
1568'	¼ degree 15 minutes
1650'	¼ degree
1750'	1 degree 30 minutes
1840'	2 degrees 15 minutes
1900'	2 degrees 15 minutes
1990'	2 degrees 15 minutes
2173'	2 degrees
2257'	2 degrees 30 minutes
2324'	2½ degrees
2421'	2 degrees 30 minutes
2520'	2 degrees 30 minutes
2604'	2 degrees 45 minutes
2720'	2 degrees 30 minutes
2806'	2½ degrees
2930'	2 degrees
3022'	2½ degrees
3102'	2½ degrees
3220'	¼ degree 45 minutes
3265'	50 minutes
3313'	½ degree
3428'	¼ degree 15 minutes
3497'	¼ degree 30 minutes
3560'	½ degree
3652'	¼ degree 15 minutes
3745'	¼ degree 15 minutes
3960'	½ degree
4050'	½ degree
4232'	¼ degree 0 minutes
4268'	¼ degree 15 minutes
4502'	½ degree
4596'	50 minutes
4719'	0 degrees 45 minutes

Depth	Degrees of Drift
4928'	½ degree
5018'	0 degrees 30 minutes
5260'	0 degrees 45 minutes
5357'	1 degree
5450'	1 degree 45 minutes
5570'	1 degree 45 minutes
5698'	1 degree 30 minutes
5819'	1 degree 45 minutes
5911'	½ degree
6000'	2 degrees 15 minutes
6284'	4 degrees 15 minutes
6322'	5 degrees 45 minutes
6384'	4 degrees
6437'	5 degrees 45 minutes
6514'	½ degrees
6564'	3 degrees
6615'	3 degrees
6660'	3½ degrees
6826'	2 degrees 40 minutes
6939'	2½ degrees
6990'	2 degrees 30 minutes
7101'	2½ degrees
7273'	2 degrees
7342'	1 degree 45 minutes
7413'	2 degrees
7567'	2 degrees

The Texas Company

Sec. #1

Weldon Canyon

Section 23-3N-16W

SCHLUMBERGER SIDE-WALL SAMPLES
Described by W. S. King
10-16-53

Depth	Recovery	
3063'	1½"	Sand, mottled tan to light green gray, firm, friable, conglomeratic, with subrounded pebbles to 1/4" diameter, matrix is coarse grained, silty, tight, patchy faint oil stain, faint odor, very patchy fluorescence, faint straw cut.
3105'	2"	Sand, light gray to tan stained, friable, fine grained, fair sorting with a rare pebbles to 1/4", silty, fair to poor porosity and permeability, mottled tan oil stain, mottled yellow fluorescence, fair odor, light amber cut.
3246'	1"	Sand, patchy light oil stain to medium gray, friable, fine to very coarse grained, poorly sorted, tight, faint odor, uneven yellow fluorescence where stained, remainder is gray, light straw cut.
3595'	1"	Sand, mottled green gray to tarnish gray, friable, appears crushed, conglomeratic with rounded pebbles to 1/4" diameter, matrix coarse grained, very poorly sorted, silty, arkosic, uneven light tan staining, spotty yellow fluorescence, faint odor, very pale straw cut.
3940'	1/2"	Sand, medium gray, badly broken and mud injected, appears conglomeratic, matrix silty and tight, no odor, no visible stain, rare spots yellow fluorescence.
3967'	1/4"	Igneous pebble with light gray coarse grained, sand along one edge. Pebble dark gray to black, very hard, common pyritization, microcrystalline. Occasional spots yellow fluorescence in sand.
4026'	1"	Sand, light gray with greenish and tan spots, friable, medium to coarse grained, with rare pebbles to 1/2" diameter and 2 2/5" stringer fine grained, silty, oil stained sand which have patchy yellow fluorescence, faint odor, remainder of core is gray.
4143'	1/2"	Sand, conglomeratic, light grey, occasional faint tan spots oil stain, friable, coarse grained with sub-rounded pebbles to 1/4" diameter, quartzose, arkosic, matrix very poorly sorted, silty, tight, no odor, patchy dull yellow fluorescence, weak spotty stain, extremely light yellow straw cut.

The Texas Company (Golden Canyon)

Eadie #1 Section 23-3S-16W

SCHLUMBERGER SIDE-WALL SAMPLES
Described by G. T. Benson
11-6-53

Depth	Rec.	
7191'	½"	Silty brown shale with occasional thin stringers of fine grained sand. Shale broken up. Sample broken up. No oil shows.
7280'	½"	Silty brown shale as at 7191' above with few chips of gray, fine grained sand with occasional medium grains. No oil shows.
7322'	½"	Gray and brown silty shale as at 7280' above. No oil shows.
7421'	1"	Brown silty shale as at 7322' above and light gray sandy shale. Sand is very fine grained. Gray shale is slightly micaceous, slickensided. No oil shows.
7520'.	Not recovered	
7500'	3/4"	Gray, slightly sand shale as at 7322' above. No oil shows.
7599'	3/4"	Gray, sandy shale as at 7500' above. One patch yellow fluorescence.
7603'	1/2"	Hard, brown-gray, sandy shale, broken up. Few patches yellow fluorescence.
7786'	1/2"	Hard, brown-gray shale as at 7603' above. One small patch yellow fluorescence.
7808'	3/4"	Gray sandy shale with occasional streaks of gray, fine grained sand. Occasional streaks yellow fluorescence.
7520'	Rec. (dat.) 3/4"	Hard, light and dark gray shale. Dark gray shale is slightly micaceous. Broken up.

Bullet with sample was recovered with cavings in Core #26.

The Texas Company

Eadie #1

Weldon Canyon

Section 23-3N-16W

CORE DESCRIPTION
Described by L. B. Freeman
8-25-53

Core #1
1446-1462' Rec. 3'

2½' Oil stained sandstone, fine to medium grained, coarse, material scattered throughout, rounded to subangular, arkosic, poor to fair sorting, dirty, very silty, tight to poor porosity and permeability, massive to poorly bedded, 35° dips; sharp gassy odor, weak straw cut at top of recovery to very faint cut at base -- core looks slightly more permeable at top than at bottom, fair but even staining, weak pale yellow fluorescence.

½' Interbedded dark gray, sandy siltstone and tight oil stained sand as above in 1 - 1½" interbeds, good 30-35° dips.

Core #2
2075-2093' Rec. 14'

Described by R. N. Grivetti

8' Very fine grained silty oil sand - 1' friable then 2' hard then 5' friable, medium brown oil stained, locally clayey, tight to low porosity and permeability, massive to vaguely bedded with 45-55° dips - strong gasoline odor, even staining and gravity oil fluorescence. Dark brown cut.

3' Shale - well bedded, silty to sandy with laminae of oil saturated very fine sand, near center of interval is tight pebble conglomerate. Dips 55-57° on shale partings.

3' Very fine grained silty oil sand - firm to firm friable, fairly well bedded (dips 56°). Medium brown, well saturated, strong gasoline odor, even bright yellow (hi gravity oil) fluorescence. Grains angular. Low porosity and permeability to tight. Dark brown cuts mostly ground up in removing from core barrel as core stuck (Core washed over with water during removal).

Core #3
2093-2113' Rec. 5' 3' Described by L. B. Freeman
Interbedded oil stained sand and gray siltstone; sand is light tan, fine grained silty, quartzose, finely micaceous, fair sorting, tight due to silty character, one 4" bed of coarse grained oil stained sand, but still silty and tight, good sharp high gravity oil odor, good even staining, yellow fluorescence, fair straw cut, gas bubbles in mud sheath; interbedded shales are dark gray, finely micaceous, locally sandy, no shows in siltstone; excellent 60° dips, upper 3' is about 40% siltstone and 60% sand.

2' Siltstone, fragments of massive siltstone, dark medium gray, finely micaceous, occasionally sandy, no shows except for some free oil along fracture planes and gas bubbles in mud sheath.

Core #4
2112-31' Rec. 18' 18' Siltstone, banded dark gray and brown, predominantly well and thinly bedded, almost a "poker-chip" parting, firm, generally sandy throughout with very fine grained quartzitic sand; siltstone is interbedded with very thin beds (1/8"-1") of very fine grained tan, quartzitic oil stained sand, silty, tight, estimate total of 2½' of oil stained sand in recovery. All having good odor, fair straw cut, even staining and even yellow fluorescence; siltstone has free oil along rare fracture plane, excellent 30° dips.

Core #5
2131-2150' No Recovery

Core #6
2150-2166' Rec. 20' 20' (4' pickup from core #5 (?))
Siltstone, medium gray to brown banded, firm, well and thinly bedded, gritty throughout but very impermeable, rare thin interbed to ¼" of very fine grained light gray to tan, silty, tight quartzitic sand, occasionally a thin streak of sand is faintly oil stained having a faint odor and no cut; excellent 80-90° dips (not overturned).

Core #7
2435-55' Rec. 16' 6". Described by L. B. Freeman
Fragments of medium gray, tight, sandy siltstone, no shows, and fine grained, silty, dirty, tight, quartzitose, tan oil stained sand, good odor, cut and fluorescence.

15½' Siltstone, banded medium gray and brown in ¼" - ½" beds, well bedded, brown siltstone is finely sandy and very foraminiferal; several 1/16" laminae of very fine grained, very tight, silty, oil stained sand, faint odor, faint cut, good fluoresacence, excellent 75° dips.

Core #8
2806-2816' Rec. 9' 9' Siltstone, banded and interbedded dark medium gray and dark brown, excellent 45° dips, firm, breaks easily along bedding planes, local slickensides along bedding planes, occasionally siltstone is finely sandy, abundant forams especially in brown beds, occasional broken shell fragment and fish remain; siltstone is interbedded with thin stringers of oil stained sand generally ⅛" thick but as thick as 2", fine grained, well sorted, angular to sub-angular, firm, micaceous, fairly clean, poor permeability, fair friability, sharp high gravity oil odor, good tan staining, strong dark brown cut, even yellow fluorescence, abundant gas bubbles in mud sheath, estimate total of 1' oil stained sand in core.

Core #9
2816-2831' Rec. 7' 7' Interbedded siltstone and oil stained sand; siltstone is banded gray and brown as in Core #8, excellent 45° dips; oil stained sand is fine to medium grained, subangular, slightly silty, fair permeability, predominantly quartz with some feldspar and biotite, occasional pink and rust colored grains, occurs generally as ⅛" interbeds, maximum 2" beds, estimate total 4' sand in core, unevenly and weakly oil stained, medium gray to faintly tan where stained, faint sour gassy odor, weak spotty pale yellow fluorescense, weak straw cut, looks wet.

Core #10 2831-2851	Rec. 16'	16'	Described by W. S. King Interbedded oil stained sand & shale Shale, brown gray and light to medium gray, banded, 1/8" to ¼" thick, firm, laminated, easily broken, silty, abundant forams. Oil stained sand, common streaks or stringers 1/8" to ½" thick, (two stks to 1" thick), lt gry w/ silt brown cast, friable, fine grained, slightly silty, fair sorting, apparent fair P & P. Good high gravity oil odor, amber cut, dull yellow to bright yellow fluorescence. Cut (CCl_4) fluoresces bright milky yellow. 30 second flash. Approx 10% of core is oil st. sand. Siltstone shells at 2833' and 2840' are med gry, hd., & dense, calcareous. Good 37°-42° dips.
Core #11 2851-2871	Rec. 10'	10'	Interbedded oil stained sand & shale as in core No. 10. Shale, brown gray to med gray, banded, firm, silty, laminated, abun forams, occ slicked bedding surface. Sand in thins streaks from paper thin to ½" thick, lt gry w/brn cast, friable fine grained, silty; subangular grains, apparent fair to poor P & P, good high gravity odor, amber cut, med to bright yellow fluorescence, cut (CCl_4) fluoresces bright milky yellow. About 20% of core is oil stained sand. Good gas flash from core barrel. Excellent 37° dips.
Core #12 2871-2881	Rec. 10'	10'	Interbedded oil stained sand & shale as in core last above. Shale, as above, firm to hard, occ broken & slightly slicked Sand, as above, in streaks & very thin to ½" thick partings. Good odor, amber cut, med yellow fluorescence, cut fluoresces milky yellow. No barrel flash. Approx 20% is oil stained sand. Excellent 40-41° dips.
Core #13 2950-2955	Rec. 2½'	½'	Described by W. S. King Oil Stained Sand as in cores above, med gray with light tan cast, friable fair bedding, fine grained, silty, fair sorting, fair P & P, micromicaceous, common fragments & disseminated carbonaceous material. Good odor, dk brown cut, med yellow fluorescence, CCl_4 cut fluoresces med yellow w/ faint green cast.

Core #13 cont'd — 1½' — Interbedded shale and oil stained sand, as in cores above, w/common streaks carbonaceous material. Approx. 20% oil std. sd.

½' — Oil std sand, med gry, w/lt tan case, hard med-crse grained, conglomeratic, silty, very poorly sorted. Pebbles to ¼" inch diam are subrounded. Poor P&P. Good odor dark brown CCl_4 cut. Med yellow fluorescence, which shows few brighter patches. Cut fluoresces med yellow w/faint green cast. good 51° dips.

Core #14
2955-2975 — Rec 1½' — 1½' — Conglomeritic oil stained sand. Fair staining, friable but w/hard streaks, med crse grained, silty, v poorly sorted, subrounded pebbles ranging to ⅜" diam. fair to poor P&P. Friable sand appears to have better P&P than hd sd. Fossil shell frags noted. Good odor, amber cut, bright yellow fluorescence, cut fluoresces bright yellow w/ slight green cast. One 2" piece siltstone, brown gry, vy hd, well bedded, locally sandy, common forams, slicked on one surface.

Core #15
2975-2995 — Rec. 12ft — 12' — Oil Sand, lt brn gry, friable to loose, med crse grained, poorly sorted, silty, locally gradding to pebbly coarse sand, rare streaks dark gry siltstone 1/8" to ¼" thick. Pebbles are subrndd, range to 12 diam. Entire core shows easy flat parting. Fair to poor P&P Good odor, dk brown cut, dull yellow to bright yellow fluor, cut fluoresces bright yellow, Locally fluorescence is uneven but no gray patches. Possibly wet. Fair dips 45°

Core #16
2995-3005 — Described by R. M. Grivetti
Rec. 3' — 3' — Conglomeritic Oil Sand - tan gray, loose to easily friable, poorly sorted, med to coarse sand studded with grits and pebbles to 2" in diameter. Recovered one fragment metamorphic boulder over 4" in diameter. Sand has fair to excellent P&P in few firm pieces recovered. (Core blew out of barrel when pumped out and is mostly loose sand and gravel). Pebbles are well rounded and polished - mostly metamorphic types but w/ some partially decomposed granites Strong gasoline odor, weak but even fluorescence, good dark brown CCl_4 cuts.

Core #17
3490-3505 Rec. 15'

Described by L.B. Freeman 9-11-53

3½' Oil Stained Sand - light tan to medium gray, fine grained w/ local scattered coarse grits and rare rounded pebbles arkosic, finely micaceous, fair sorting, silty, low p & p, fair friability, occ. thininterbeds to ¼" of dark gray-brown foraminiferal siltstone, excellent 53° dips, weak spotty staining, very faint petroleum odor with strong brackish water odor, pale straw cut where weakly stained to dark brown cut, weak spotty pale yellow fluorescence looks tight & wet.

1' Oil stained Sandstone - lithology as above but w/ more coarse grained material and fairly well cemented, firm to hard, massive, shows as above, looks tight & wet.

½' Interbedded Oil Stained Sand & Siltstone. AS IN TOP 3', sd & sltstn in alternating ¼" interbeds, good 55-60° dips, shows as above.

5' Oil Stained Sand, light tan to light med gray, med grained w/much fine material and some scattered coarse angular grits, poor to very poor sorting, firm to hard, massive, arkosic, angular to subangular, some silt, tight, shows as in top 3½' with weaker staining.

5' Interbedded siltstone & Oil stained sand as in top 3½' top 2' of this recovery has 70-90° contorted dips, bottom 3' has good 60° dips.

estimated total 8'+ oil stained sand in core.

Core #18 3505-3524	Rec. 9'	4'	Oil Stained Sand, med to crse. grained top 6" grading downward into fine grained, massive, arkosic, subangular grains, hard at top where well cemented to firm at bottom, silty throughout, tight at top to low P & P on bottom, fairly friability, light tan where stained to med gray, vy faint pet odor, weak uneven staining, pale straw cut, weak pale yellow patchy fluorescence, looks & smells wet, rare ¼" silt streaks.
		1'	Interbedded gray brown foraminiferal siltstone and tight fine grained oil stained sand, lith and shows as in top 3' (⅛ to ⅜" interbeds)
		4'	Oil Stained Sand, conglomeritic, medium to coarse grained, locally pebbly, very poorly sorted, angular to subrounded grains, tight firm at top to hard in bottom 3", massive to poorly bedded, locally silty, arkosic, finely micaceous w/occas large biotite flakes, rare ¼" gray brown foraminiferal siltstn beds giving good 55-60° dips; shows as in upper 3' but w/amber cuts, looks & smells wet.
Core #19 3656-3673'	Rec. 12'	12'	Oil Stained Sand, medium gray to light gray-tan where patchily stained, predominantly coarse grained with local grading at bottom to medium and fine grained, occasionally pebbly, subangular, massive to poorly bedded, firm to soft, where soft is easily friable, silty, tite to low p & p, predominantly quartz with scattered feldspar and biotite, occasional 1/8 - ½" streak of gray-brown gritty siltstone in top 10' of recovery, bottom 10' has one 2" interbed of dark gray siltstone, good 55-60° dips; very faint petroleum odor, weak and patchy dark brown to lite tan oil staining, bright to dull yellow spotty fluorescense, pale straw cut to fair dark brown cut where better stained, looks wet.

Core #20 6043-53'	Rec. 7'	6'	Described by L. B. Freeman 9-22-53 Siltstone, dark gray-brown, gritty with very fine grained rounded quartz sand, finely micaceous, locally slickensided along bedding planes, impermeable, contains laminae up to ¼" of oil stained sand, predominantly arkosic, silty, firm, tight, laminae are mainly fine and subangular grained but occasionally are coarse grained and angular containing scattered green mineral fragments (epatite?), good 45-50° dips, weakly oil stained, faint odor, weak to fair straw cut, uneven yellow fluorescence, looks tight and wet.
		1'	Sandstone, light gray, medium grained, angular to subrounded, poorly sorted in rounding hard, well cemented, tight, arkosic, rare fine biotite, no shows.
Core #21 5526-5544'	Rec. 1'	½'	Described by G. T. Benson 9-30-53 Siltstone. Dark brown with slight greenish tint, soft, finely micaceous. Contains occasional rounded pieces dark gray siltstone to medium sand grain size. Much drilling mud intermeixed.
		½'	Sandstone. Light gray to white. Fine grained, fairly poorly sorted, well cemented, silty arkose. Grains are subrounded. Friable. Contains about 10% gray siltstone interealated in very thin to 1/8" thick beds. Sand contains considerable amount of clay. No cut color. No fluorescence.
Core #22 6054-73'	Rec. 18'	12'	Described by L. B. Freeman - 10-5-53 Sand, medium gray, fine to medium grained, subrounded to occasionally angular, quartzose some feldspar and occasional biotite, massive, firm to locally soft and easily friable, silty, and clayey with kaolinitic material, pebbly throughout with well rounded pebbles to 1/4" of dark gray igneous material, very crumbly at 6065' where sand contains several rounded medium gray siltstone pebbles to 2", no dips noted, low permeability to tight, no shows.
		6'	Sandstone, lithology as above, less pebbly, very well cemented, hard, tight, no shows.

Core #23
6505-6550' Rec. 4' 4'

Described by G. T. Reason 10-10-53
Shale. Dark gray and black interbedded, very hard, laminated. Contains many thin to 1/4" thick beds of gray-white, fine grained, well cemented, quartzose, micaceous sand. Shale contains fish remains (?), few thin irregular patches of berry mineral. No oil stain, odor or fluorescence. Dips 65 to 90°.

Core #24
6550-6600' Rec. 6' 6'

Described by L. B. Freeman 10-11-53
Interbedded gray siltstone, brown siltstone and gray sandstone; core is predominantly medium grained siltstone, finely micaceous, rare fine grained quartz sand grains, beds to 1", brown siltstone is in thin laminae 1/4" thick, generally gritty with fine to medium grained quartz sand; sandstone in laminae to 1/4" except for one 1" bed, light medium gray, fine grained, angular to rounded, silty, clayey with white kaolinitic material, quartzose, abundant biotite, tight, excellent 85-90° dips, no odor, stain, cut, or fluorescence.

Core #25
6600-7000' Rec. 10' 10'

Described by W. S. Ling
Interbedded silty shale, siltstone, and occasional sandy streaks. Banded dark gray to dark brown gray, to light gray in sandy streaks. Firm to hard, well bedded, most of core broken into large angular fragments, with common slicks on fractured surfaces. Occasional sand streaks (About 20% of core) are fine to medium grained, silty, very poorly sorted, arkosic, quartzose, tight. One 1/2" streak near top of fine grained, silty, fair oil stained sand, friable, fair yellow fluorescence, straw cut, fair odor. Rest of sand streaks fluoresce light yellow, with faint odor, light straw cut, some dark, few oil stain on fractured surfaces. Excellent 80-90° dips.

Core #26 No Recovery 1½'

Described by G. T. Reason 11-9-53
Cavings in drilling mud. Cavings to 5" diameter consisting of hard, gray, slightly sandy shale, and hard, brown, very well cemented, fine grained, calcareous sand with occasional patches of gray, fine grained sand. No oil shows.

Newhall
(Weldon Canyon)

Core #27
7913-7923' Rec. 10'

Described by G. T. Benson

8½' Shale. Hard, dark gray-brown, silty, massive to poorly laminated, fractured and locally broken up. Fracture surfaces show slickensides. Measured dips 70° and 83°, usually near 85°.

1½' Breccia-Conglomerate. Granitic and metamorphic pebbles and granules up to 2" diameter in dark grayish brown shale matrix. Pebbles angular to subrounded. Few fractures show slickensides. No oil shows.

Core #28
6000-6011' Rec. 11'

Described by W. S. King

Silty shale, medium to dark gray with brown cast, firm to very hard, well bedded, banded with very thin to 1/4" thick streaks medium and dark gray. Locally very silty. Greater portion of core broken into large angular fragments with slickensided surfaces. Occasional slicked fracture surfaces covered with calcite. One fracture contains 1/4" thick zone of black crumbly gouge. Rare mega fossil fragments, very rare microfossils (?). Good 79° to 84° dips. No shows.

FORM 109-D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 153-1360

Mr. R L Jackson Los Angeles 15 Calif. November 18 1953
Long Beach 1 Calif.
Agent for THE TEXAS CO

DEAR SIR:

Operations at your well No. "Eadie" 1 Sec. 23, T. 3 N, R. 16 W, S B B. & M., Newhall Field, in Los Angeles County, were witnessed by J. F. Foster, Inspector, representative of the supervisor, on November 13, 1953. There was also present E. Ballard, Drilling Foreman; M. Honeycutt, Drilling Foreman.

Casing Record 11-3/4" cem. 500'. T.D. 8011', plugged with cement 850'-766', 530'-400', and 15'-5'.

Junk None

The operations were performed for the purpose of witnessing the plugging operations in the process of abandonment.

The inspector arrived at the well at XXXX and Mr. XXXXX reported:

INSPECTOR G. J. BORKOVICH VISITED THE WELL FROM 7:50 - 8:20 P.M., NOVEMBER 12, 1953, AND MR. BALLARD REPORTED:

1. A 9-7/8" rotary hole was drilled from 500' to 8000'; an 8-1/2" rotary hole, 8000'-8011'.
2. On November 12, 1953, 75 sacks of cement was pumped into the hole through 4-1/2" drill pipe hanging at 850', filling to 766'.

THE INSPECTOR NOTED:

1. The cement plug at the reported depth of 766' supported 7 points of the weight of the drill pipe.
2. The driller's tally showed 766' of drill pipe in the hole.

THE INSPECTOR ARRIVED AT THE WELL AT 1:30 P.M. AND MR. BALLARD REPORTED:

1. On November 13, 1953, 75 sacks of cement was pumped into the hole through 4-1/2" drill pipe hanging at 530'.
2. The top of the cement was found at 400'.
3. A bridging plug of paper sacks was placed 10' below the top of the 11-3/4" casing.
4. On November 13, 1953, 7 sacks of cement was poured into the hole.

THE INSPECTOR NOTED THAT the top of the cement filled to the top of the 11-3/4" casing, which is 5' below the surface of the ground.

The test was completed at 1:45 p.m.

THE PLUGGING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

JFF:OH

cc Company

Orig Mr R F Cory

R. D. BUSH
State Oil and Gas Supervisor

By R. W. Walling Deputy

82547 7-53 17,850 ② SPO

FORM 111 (1-49)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 153-1402

Los Angeles 15 Calif. November 18 19 53

Mr. R L Jackson

Long Beach Calif.

RECEIVED
NOV

Agent for THE TEXAS CO

Dear Sir:

Your proposal to abandon Well No. "Eadie" 1,

Section 23, T. 3 N., R. 16 W., S B B. & M., Newhall Field, Los Angeles County,

dated Nov. 16 19 53, received Nov. 17 19 53, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE
The base of the fresh waters as indicated by the electric log is at 800'.

THE NOTICE STATES
"The present condition of the well is as follows:
1. Total depth.
8011
2. Complete casing record.
11-3/4", 54#, J-55 casing cemented solid at 500'.

3. Last produced. Prospect well, no commercial showings."

PROPOSAL
"The proposed work is as follows:
1. Place cement plug 850' to 766', Division of Oil and Gas to witness top.
2. Place cement plug 530' to 400'.
3. Place 10 lineal feet of cement at surface in the 11-3/4" casing. Division of Oil and Gas to witness.
4. Cap with steel plate and abandon."

DECISION
THE PROPOSAL, COVERING WORK ALREADY COMPLETED IN ACCORDANCE WITH PRIOR AGREEMENT, IS APPROVED.

FRK:OH

F/G

Orig Mr R F Cory

cc Company

R. D. BUSH
State Oil and Gas Supervisor

Blanket bond.

By R. H. Nelling Deputy

FORM 108. 5/613 2-52 20M ⓔ SPO

DIVISION OF OIL AND GAS
RECEIVED
NOV 17 1953
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin; one copy only

Santa Paula Calif. November 16, 19 53

DIVISION OF OIL AND GAS

Los Angeles, Calif.

In compliance with Secs. 3228, 3229, 3230, 3231 and 3232, Ch. 93, Stat. 1939, notice is hereby given that it is our intention to abandon well No. Eadie #1

Sec. 23, T. 3N, R. 16W, S.B. B. & M. (Weldon Canyon) Field,

Los Angeles County, commencing work on the 12th day of November 19 53

The present condition of the well is as follows:

1. Total depth.
   8011
2. Complete casing record.
   11¾", 54#, J-55 casing cemented solid at 500'.

3. Last produced. Prospect well, no commercial showings
   (Date) (Net oil) (Gravity) (Cut)

The proposed work is as follows:

1. Place cement plug 850' to 766', Division of Oil and Gas to witness top.
2. Place cement plug 530' to 400'.
3. Place 10 lineal feet of cement at surface in the 11¾" casing. Division of Oil and Gas to witness.
4. Cap with steel plate and abandon.

The Texas Company
(Name of Operator)

By R.F.Cory-Dist.Petr.Engineer

WWK-UFB
TWB-IF-File

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

FORM 109-D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 153-1105

Mr R L Jackson
Mr P O Box 320
Long Beach Calif.
Agent for THE TEXAS CO

Los Angeles 15 Calif. September 16 19 53

PROSPECT WELL

DEAR SIR:

Operations at your well No. "Eadie" 1 Sec. 23, T. 3 W, R. 16 W, S B B. & M., Newhall Field, in Los Angeles County, were witnessed by G. J. Borkovich, Inspector on September 8, 19 53. There was also present E. Ballard, Drilling Foreman; H. R. Dixon, Driller.

Casing Record 11-3/4" cem. 503'. T.D. 3035'. | Junk None

The operations were performed for the purpose of inspecting blowout prevention equipment and installation.

The inspector arrived at the well at 12:45 p.m. and Mr. Ballard reported:

1. A 17-1/2" rotary hole was drilled from the surface to 503'.
2. On August 19, 1953, 11-3/4", 54 lb. casing was cemented at 503' with 450 sacks of cement.
3. Cement did not return to the surface.
4. On August 19, 1953, 150 sacks of cement was pumped down around the 11-3/4" casing through 2" pipe hanging at 200'.
5. A 9-7/8" rotary hole was drilled from 503' to 3035'.

THE INSPECTOR NOTED THAT THE WELL WAS EQUIPPED WITH THE FOLLOWING BLOWOUT PREVENTION EQUIPMENT:

1. A Shaffer double cellar control gate for closing in the well with the drill pipe out of the hole, and for closing around the 4-1/2" drill pipe.
2. A Hydril blowout preventer for closing around the 4-1/2" drill pipe.
3. The controls for the above equipment were located outside the derrick.
4. A 2" mud fill-up line with a 2" high pressure stopcock into the 11-3/4" casing below the above equipment.
5. A high pressure stopcock on the kelly.

The inspection was completed at 1:15 p.m.

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

GJB:OH

cc The Texas Co (Attn Mr T W Bell)
929 South Broadway
LOS ANGELES 15

Orig Mr R F Cory Dist Engineer
The Texas Co
Box 510
Santa Paula California

R. D. BUSH
State Oil and Gas Supervisor

By R. V. Walling Deputy

10/15/53 Kewen-Sawyer
TD 6800'
Run tools and set 2900' plug
Will circulate to 2900'
No shoot as per
Lombard.
850-750 Sac. thru tbg.
550-450 Co
10 sac. plug
Ok

82547 7-53 17,850 ② SPO

FORM 111 (1-49)

E

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 153-941

Los Angeles 15 Calif. July 22 1953

Mr. S L Jackson
P O Box 320
Long Beach Calif.

(2)

Agent for THE TEXAS CO

DEAR SIR:

Your proposal to drill Well No. "Madie" 1,

Section 23, T. 3 N., R. 16 W., S B B. & M., Newhall Field, Los Angeles County,

dated July 14 19 53, received July 15 19 53, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES

"Location of well: 2425.28 feet South along section line and 1482.21 feet West at right angles to said line from the Northeast corner of section 23, T. 3 N., R. 16 W., S.B.B. &M.
Elevation of ground above sea level 2125 feet Ground datum. (Topo)
All depth measurements taken from top of Kelly Bushing which is 12 feet above ground."

PROPOSAL

"PROPOSED CASING PROGRAM

Size of Casing Inches A.P.I.	Weight	Grade and Type	Top	Bottom	Cementing Depths
11 3/4"	47#	J-55	Surface	500	500' w/500 sacks

Intended zone or zones of completion:
It is understood that if changes in this plan become necessary we are to notify you before running casing."

DECISION

THE PROPOSAL IS APPROVED PROVIDED THAT

1. A supplementary proposal shall be filed with this Division prior to running any additional casing, or placing any cement plugs. Additional requirements will be specified at that time.
2. Blowout prevention equipment, sufficient to provide a complete close-in of the well under pressure at any time, shall be installed and approved by this division.
3. THIS DIVISION SHALL BE NOTIFIED TO INSPECT the installed blowout prevention equipment before drilling below 1000'.

ERMA:OH

cc The Texas Co (Attention Mr T W Bell)
929 South Broadway
LOS ANGELES 15

Orig Mr R F Cory Dist Engineer
The Texas Co
Box 510
Santa Paula California

R. D. BUSH
State Oil and Gas Supervisor

Blanket bond.

By E. H. Meisser Deputy

FORM 105

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JUL 15 1953
LOS ANGELES, CALIFORNIA

E

037-06077

Notice of Intention to Drill New Well

This notice and surety bond must be filed before drilling begins

7

Santa Paula Calif. July 14 1953

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division III, Article 4, Public Resources Code, notice is hereby given that it is our intention to commence the work of drilling well No. "Eadie" #1, Sec. 23, T. 3 N, R. 16 W, S.B. B. & M., ~~Weldon Canyon~~ Newhall Field, Los Angeles County.

Legal description of lease

(Attach map or plat to scale)

Location of Well: 2425.28 feet South (Direction) along section line ~~property~~ and 1482.21 feet West (Direction) at right angles to said line from the Northeast ~~property~~ corner of section 23, T. 3 N., R. 16 W., S.B.B.&M.

Elevation of ground above sea level 2125 feet Ground datum. (Topo)

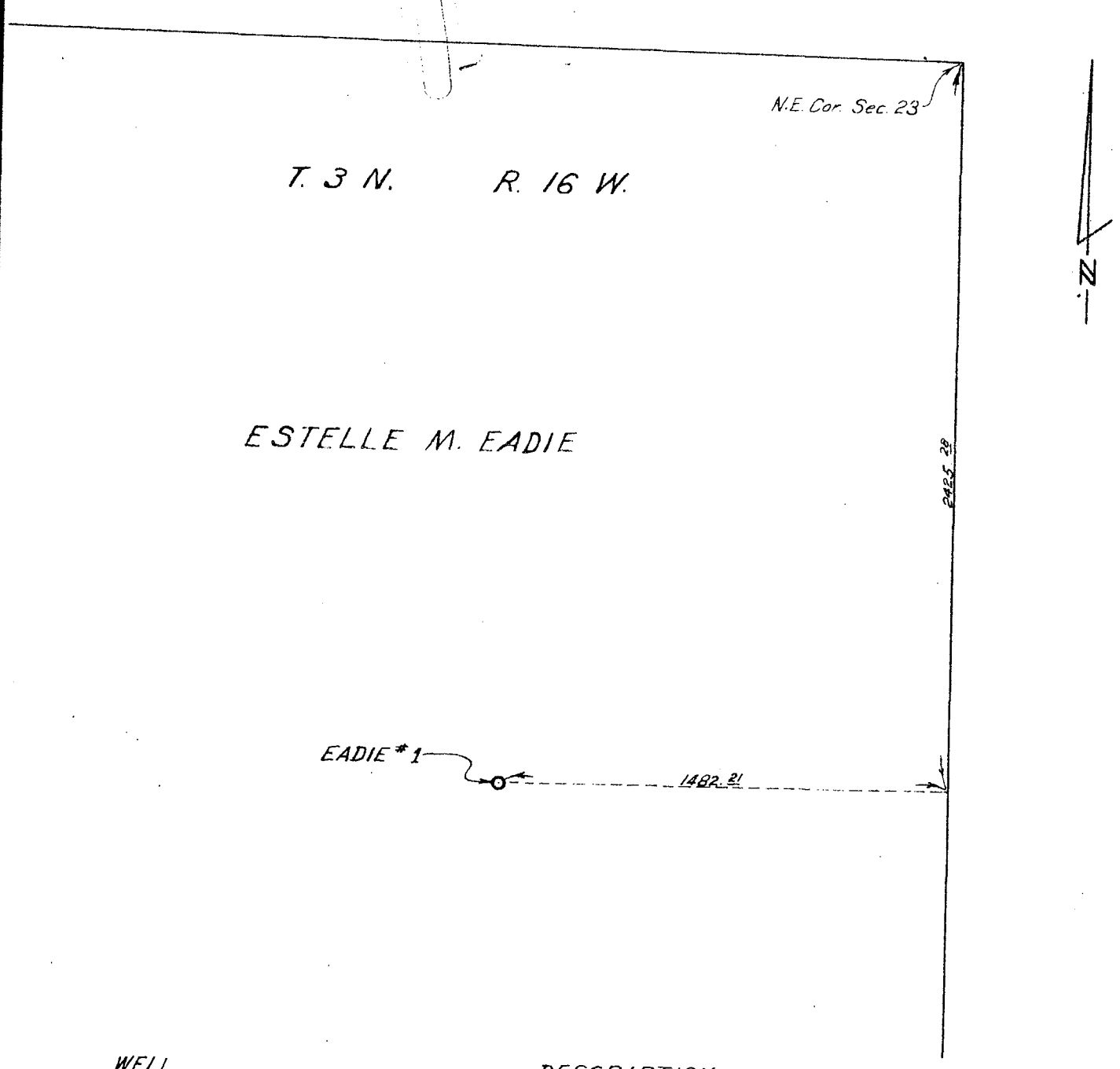
All depth measurements taken from top of Kelly Bushing (Derrick Floor, Rotary Table or Kelly Bushing) which is 12 feet above ground.

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
11 3/4"	47#	J-55	Surface	500	500' W/500 sacks

Intended zone or zones of completion: Prospect Well

| | | | | |



WELL	DESCRIPTION
Eadie # 1 F.B. C.B.	2425.28 ft. S'ly along the E. line of Sec. 23, T.3N., R.16W. S.B.B.&M., from the N.E. cor. thereof, thence W'ly at right angles thereto 1482.21 ft.

DIVISION OF OIL AND GAS
RECEIVED
JUL 2 81953
SANTA PAULA, CALIFORNIA

1

REVISED TO	BY

Weldon Can. Area POOL
Ventura DISTRICT

THE TEXAS CO.
PACIFIC COAST DIVISION
ENGINEERING OFFICE — PRODUCING DEP'T
SIGNAL HILL, CALIF.

APPROVED:
DATE 7-15-53

DR. BY W.E.K.
TR. BY
CH. BY
SCALE: 1" = 500'
DWG. NO. 2C-271-7197

LOCATION EADIE #1
L.A. COUNTY

PRINTED ON CLEARPRINT NO. 1000-H

T.W.B. - H.F.A. - G.R.C.[2] - J.L.S.[5] - R.L.P. - A.A.A. - G.M.R.[2]

ATTACHMENT D

CITY OF LOS ANGELES
CALIFORNIA

BOARD OF PUBLIC WORKS MEMBERS

KEVIN JAMES
PRESIDENT

AURA GARCIA
VICE PRESIDENT

DR. MICHAEL R. DAVIS
PRESIDENT PRO TEMPORE

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ERIC GARCETTI
MAYOR

BUREAU OF SANITATION

ENRIQUE C. ZALDIVAR
DIRECTOR AND GENERAL MANAGER

TRACI J. MINAMIDE
CHIEF OPERATING OFFICER

LISA B. MOWERY
CHIEF FINANCIAL OFFICER

MAS DOJIRI
JOSE P. GARCIA
ALEXANDER E. HELOU
ASSISTANT DIRECTORS

TIMEYIN DAFETA
HYPERION EXECUTIVE PLANT MANAGER

INDUSTRIAL WASTE MANAGEMENT DIVISION
2714 MEDIA CENTER DRIVE
LOS ANGELES, CA 90065
OFFICE: (323) 342-6200
FAX: (323) 342-6111

September 01, 2020

SUNSHINE CANYON LANDFILL
14747 San Fernando Road
Sylmar, CA 91342

In Reply Refer to: IU128862.prm/jnc

Attn: Tuong-Phu Ngo, Environmental Manager

RENEWAL OF INDUSTRIAL WASTEWATER PERMIT FOR IU128862
PERMIT: W-535428

The LA Sanitation and Environment (LASAN) has completed a review of SUNSHINE CANYON LANDFILL's application to discharge industrial wastewater to the City of Los Angeles sewer system. Pursuant to the LASAN audit, it has been determined that this facility is subject to requirements as a Non-Categorical Significant Industrial User, and other applicable Federal, State and Local wastewater discharge requirements. Therefore, in accordance with provisions of the Los Angeles Municipal Code (L.A.M.C.) Section 64.30, this Industrial Wastewater Permit is being issued to include comprehensive permit conditions which identify the requirements that are applicable to SUNSHINE CANYON LANDFILL. All discharges from this facility and actions and reports relating thereto shall be in accordance with the terms and conditions of this permit.

This permit shall become effective at midnight on **September 01, 2020** and shall expire at midnight on **August 31, 2023**. During the term of this permit, the permittee shall immediately notify the LASAN of any changes to the facility, process, production, or pretreatment system that may change the characteristics which causes it to be different from that expressly allowed under this permit.

If there are any questions regarding these permit conditions, please contact JOCELYN CARRILLO of my staff at (323) 342-6082.

Sincerely,

Enrique C. Zaldivar, P.E.Director and General Manager
LA Sanitation and Environment

By Michael Simpson

Michael Simpson, Division Manager
Industrial Waste Management Division

c: SIU Permitting Section
Bhupendra Patel, Chief Environmental Compliance Inspector II
SIU Enforcement Section

INDUSTRIAL USER
PERMIT REQUIREMENTS AND CONDITIONS

Legal Name: Browning-Ferris Industries of Calif., Inc.
Dba Name: SUNSHINE CANYON LANDFILL
Industrial User No: IU128862

INDUSTRIAL WASTEWATER PERMIT NO.
W-535428

CITY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS
LA Sanitation and Environment

INDUSTRIAL WASTE MANAGEMENT DIVISION
2714 MEDIA CENTER DRIVE
LOS ANGELES, CA 90065
(323) 342-6200

INDUSTRIAL WASTEWATER PERMIT

INDUSTRIAL USER NO:	IU128862
PERMIT NO:	W-535428
EFFECTIVE DATE:	09/01/2020
AMENDED DATE:	NA
EXPIRATION DATE:	08/31/2023

LEGAL BUSINESS NAME:	BROWNING-FERRIS INDUSTRIES OF CALIF.,INC.
DOING BUSINESS AS:	SUNSHINE CANYON LANDFILL
MAILING ADDRESS:	14747 SAN FERNANDO ROAD SYLMAR, CA 91342
LOCATION ADDRESS:	14747 SAN FERNANDO ROAD SYLMAR, CA 91342
CATEGORY:	NON-CATEGORICAL SIU
POINT OF DISCHARGE:	PUBLIC SEWER

In accordance with the provisions of the Los Angeles Municipal Code (L.A.M.C.) Section 64.30, the above identified industrial user is hereby authorized to discharge industrial wastewater through the approved point of discharge identified herein in accordance with the discharge limitations, conditions, and requirements set forth in this permit and the L.A.M.C. Compliance with this permit does not relieve the industrial user of its obligation to comply with all pretreatment regulations, standards or requirements under local, State and Federal laws, including any such laws, regulations, standards or requirements that may become effective during the term of this permit.

The industrial user must comply with the provisions of L.A.M.C. Section 64.30 and all terms and conditions of this permit. Noncompliance with the terms and conditions of this permit shall constitute a violation of the L.A.M.C. Section 64.30 and may subject the industrial user to administrative actions or other legal proceedings. This permit becomes void upon any change of ownership or location whatsoever.

Enrique C. Zaldivar, Director and General Manager
LA Sanitation and Environment

BY: Michael Simpson

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PART 1 - SAMPLE POINT DESCRIPTION AND FACILITY FLOW INFORMATION	**1**
PART 2 - DISCHARGE LIMITATIONS	**2**
PART 3 - MONITORING REQUIREMENTS	**3**
PART 4 - REPORTING REQUIREMENTS	**5**
PART 5 - SPECIAL CONDITIONS	**7**
PART 6 - STANDARD CONDITIONS	**SC-1**
APPENDICES	See Appendix

Appendix A: Fact Sheet

Appendix B: Attachments

Attachment 1 – Site Plan

Attachment 2 – Process and Instrumentation Diagram

Attachment 3 – Sewer Facilities Charge Certificates

Attachment 4 – Sewer Capacity Availability Request (SCAR)

Attachment 5 – 14747 San Fernando Road Sewer Map

Appendix C: Self-Monitoring Report Form and Instructions

PART 1 - SAMPLE POINT DESCRIPTION AND FACILITY FLOW INFORMATION

A. Sample Point

The industrial user is authorized to discharge industrial wastewater to the City of Los Angeles sewer system from the sample point(s) listed below.

INDUSTRIAL WASTEWATER PERMIT	SAMPLE POINT	FLOW PER OPERATIONAL DAY (GPD)		DESCRIPTION
		TOTAL	PROCESS	
W-535428	01	300,000	300,000	Secured Sampling Facility is located at Magnetic Flow meter Vault.

B. Industrial User Flow

Facility Flow Information [1]	Total (GPD)	Process (GPD)
	300,000	300,000

Footnotes to Sample Point Description and Industrial User Flow Information

[1] Sunshine Canyon Landfill shall not discharge greater than 300,000 gpd of leachate to the City sewer system. Refer to **Part 5. C – Special Conditions.**

PART 2 - DISCHARGE LIMITATIONS

The discharge from the designated sample points shall not exceed the following discharge limitations:

A. Industrial Wastewater Permit W-535428

1. Sample Point 01– Significant Non-Categorical Industrial User

DISCHARGE LIMITATIONS		
Constituent	**Local Instantaneous Maximum**	
Arsenic (Total)	3.00	mg/l
Cadmium (Total)	15.00	mg/l
Chromium (Total)	10.00	mg/l
Copper (Total)	15.00	mg/l
Cyanide (Free)[1]	2.00	mg/l
Cyanide (Total)	10.00	mg/l
Dissolved Sulfides	0.10	mg/l
Lead (Total)	5.00	mg/l
Nickel (Total)	12.00	mg/l
Oil & Grease (Total)	600.00	mg/l
pH (Standard Units)	5.50 – 11.00	SU
Silver (Total)	5.00	mg/l
Zinc (Total)	25.00	mg/l

Footnotes to Discharge Limitations

[1]Cyanide (Free) shall mean cyanide amenable to chlorination as defined by 40 CFR 136.

PART 3 – MONITORING REQUIREMENTS

The industrial user shall monitor the designated sample point, for the following constituents, at the indicated frequency and by the indicated sample type.

A. Industrial Wastewater Permit W-535428

1. Sample Point 01

MONITORING REQUIREMENTS FOR REGULATED PARAMETERS		
Constituent	**Measurement Frequency**	**Sample Type**
Daily Flow	Continuous	Not Applicable
Arsenic (Total)	Semi-Annual	Grab
Cadmium (Total)	Semi-Annual	Grab
Chloride[1]	Semi-Annual	Grab
Chromium (Total)	Semi-Annual	Grab
Copper (Total)	Semi-Annual	Grab
Cyanide (Free)	Semi-Annual	Grab
Cyanide (Total)	Semi-Annual	Grab
Dissolved Sulfides	Semi-Annual	Grab
Lead (Total)	Semi-Annual	Grab
Nickel (Total)	Semi-Annual	Grab
Oil & Grease (Total)	Semi-Annual	Grab
pH[2]	Semi-Annual	Grab
Silver (Total)	Semi-Annual	Grab
Zinc (Total)	Semi-Annual	Grab

B. Representative Monitoring and Sampling

1. Monitoring and sampling shall be carried out during a period of normal operations.

2. All handling and preservation of collected samples and laboratory analyses of samples shall be performed in accordance with 40 CFR Part 136 and amendments thereto unless specified otherwise in the monitoring conditions of this permit. The handling, storage and analyses of all samples taken for the determination of the wastewater characteristics discharged shall be performed by laboratories certified by the State of California or approved by the Director of the LA Sanitation.

3. The detection limits employed for wastewater analysis shall be lower than the permit limits established for a given parameter.

4. The industrial user is responsible for maintaining and cleaning the designated sample point(s) to prevent any build-up of oil and grease, sediment or sludge. Failure to do so does not invalidate sampling test results. Analytical results from samples taken from designated sample points according to accepted sampling procedure shall be accepted as binding.

5. Sample Points identified in the Industrial Wastewater Permit shall not be changed without notification and approval by the Director.

FOOTNOTES TO MONITORING REQUIREMENTS

[1]The City of Los Angeles is establishing a database for chlorides.

[2]Refer to Part 5A– Special Conditions.

PART 4 – REPORTING REQUIREMENTS

A. Self-Monitoring

1. The industrial user shall implement a self-monitoring program for the designated Industrial Wastewater Permit. Monitoring results obtained shall be summarized and reported on the enclosed report form entitled "Periodic Compliance Report" and submitted with a US Post Office postmark date by the 15th day of the month following the monitoring period. Facsimiles (faxes) of self-monitoring reports shall not be accepted. Reports with original signatures must be submitted by the due date.

   The first self-monitoring report for the monitoring period of **July 1 – December 31, 2020** shall be submitted by **January 15, 2021.** Subsequent reports shall be submitted in accordance with the following schedule:

SELF-MONITORING REPORT SCHEDULE			
Industrial Wastewater Permit	**Type of Report**	**Monitoring Period**	**Report Due Date**
W-535428 Sample Point 01	Local Limits Periodic Compliance Report	Jan 1 - Jun 30 Jul 1 - Dec 31	Jul 15 Jan 15

2. All portions of the Periodic Compliance Report form must be completed or the report may not be accepted.

3. The report shall indicate the nature and concentration of all pollutants in the effluent for which sampling and analyses were performed including measured or estimated maximum and average daily flows. The report shall be based upon data obtained through appropriate sampling and analyses performed which represents the conditions occurring during the period covered by the report.

4. Copies of all laboratory results shall be submitted with each report.

5. The LA Sanitation will not accept reports where monitoring was conducted outside the monitoring period specified in this permit.

B. Self-Monitoring Report Submittal

All self-monitoring reports required by this permit shall be submitted to the Director at the following address:

City of Los Angeles
LA Sanitation and Environment
Industrial Waste Management Division
2714 Media Center Drive
Los Angeles, CA 90065

Attn: Information Systems Support Squad

C. Additional Monitoring

If the industrial user monitors any pollutant at the designated sample point more frequently than required by this permit, using test procedures prescribed in 40 CFR 136 or amendments thereto or otherwise approved by EPA or specified in this permit, the results of such monitoring shall be reported in the compliance report and submitted to the Director.

D. Automatic Resampling

If the results of the industrial user's wastewater analysis indicate a violation has occurred, the industrial user must comply with the following:

1. Inform the Director of the violation within 24 hours by contacting the LA Sanitation Industrial Waste Management Division SIU Inspection Group at (323) 342-6200; and

2. Repeat the sampling and pollutant analysis and submit, in writing, the results of this second analysis within 30 days after becoming aware of the violation.

E. Pre-notification of Monitoring and Sampling

The industrial user shall notify the SIU Inspection Group by telephone at (323) 342-6200 at least 48 hours in advance of any monitoring or sampling to be performed. Notification shall include the date, time and location of proposed monitoring or sampling. Monitoring and sampling shall be carried out during a period of normal operations. Prior to the commencement of any sampling or monitoring, the Director may request that the industrial user furnish to the Director a split sample and all supporting data (i.e., methodology, flow measuring data, strip chart recordings and other pertinent information). The Director reserves the right to refuse any data developed from the monitoring or sampling activity if the industrial user fails to comply with the pre-notification procedure or other requirements of sampling and analysis.

PART 5 – SPECIAL CONDITIONS

A. pH MONITORING AND RECORDING SYSTEM

The pH of the wastewater discharge to the sewer system shall be monitored and recorded continuously using a pH meter and recording device. To ensure the proper operation and continued accuracy of the pH meter, Sunshine Canyon Landfill shall clean, maintain, and calibrate the device periodically in accordance with the manufacturer's requirements. A logbook for pH calibration must be kept. The pH chart must be initialed daily by an operator at the facility to validate the proper operation of the pH monitoring and recording system.

B. FLOW METER MAINTENANCE AND CALIBRATION

To ensure proper operation and continued accuracy of the industrial wastewater flow measurement device, Sunshine Canyon Landfill shall clean, maintain, and calibrate the device periodically in accordance with the manufacturer's requirements. If there are no stated requirements, the flow meter shall be calibrated annually at a minimum. A maintenance record shall be available at all times for Bureau of Sanitation review.

C. DISCHARGE REQUIREMENTS

Sunshine Canyon Landfill is allowed to discharge a total of 300,000 gpd (208.33 gpm) of landfill leachate at a maximum flow rate of 250 gpm, not exceeding 300,000 gallons per day through the sewer connection located at 14747 N. San Fernando Road, Sylmar into the City of Los Angeles sewer system.

PART 6 – STANDARD CONDITIONS

A. Prohibitions

1. General Prohibitive Standards

The Industrial User shall comply with all the general prohibitive discharge standards in the General Pretreatment Regulations, 40 CFR 403, and the L.A.M.C. Section 64.30. Except as expressly allowed in an Industrial Wastewater Permit, no Industrial User shall introduce or cause to be introduced into the POTW any of the following:

a) Gasoline, mercury, total identifiable chlorinated hydrocarbons, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, solvents, pesticides or jet fuel;

b) Liquids, solids or gases which by reason of their nature or quantity are flammable, reactive, explosive, corrosive, or radioactive, or by interaction with other materials could result in fire, explosion or injury. Pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, wastewater with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40CFR261;

c) Solid or viscous materials which could cause obstruction to the flow or operation of the POTW;

d) Toxic pollutants in sufficient quantity to injure or interfere with any wastewater treatment process, including private pretreatment systems, to constitute a hazard or cause injury to human, animal, plant or fish life, or to exceed any limitation set forth in this Permit;

e) Noxious or malodorous liquids, gases, or solids in sufficient quantity either singly or by interaction with other materials to create a public nuisance, hazard to life, or to prevent entry of any person to the POTW;

f) Pollutants which result in the presence of toxic gases, vapors or fumes within the POTW in a quantity that may cause acute worker health and safety problems;

g) Material of sufficient quantity to interfere with any POTW treatment plant process or to render any product thereof unsuitable for reclamation and reuse;

h) Material in sufficient quantity to cause the POTW to be in noncompliance with biosolids use or disposal criteria, guidelines or regulations in conjunction with Section 405 of the Act, the Solid Waste Disposal Act (SWDA), the Clean Air Act, the Toxic Substances Control Act, the Marine Protection Research and Sanctuaries Act, or State criteria (including those contained in any state sludge management plan prepared pursuant to Title II of SWDA) applicable to the biosolids management method being used;

i) Material which will cause the POTW to violate its NPDES Permit, applicable Federal and State statutes, rules or regulations;

j) Wastewater containing pigment which is not removed in the ordinary POTW treatment process and which creates a visual contrast with the material appearance of the POTW discharge observable at the point of POTW discharge;

k) Wastewater having a heat content in such quantities that the temperature of the wastewater at the introduction into the POTW Collection system exceeds 140 degrees Fahrenheit, or at the introduction into the POTW treatment plant exceeds 104 degrees Fahrenheit;

l) Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;

m) Pollutants, including oxygen demanding pollutants, released at a flow rate or pollutant concentration which will cause or contribute to interference;

n) Storm water collected and discharged to the POTW;

o) Single pass cooling water in excess of 200 gallons per day discharged to the POTW;

p) Wastewater which constitutes a hazard or causes injury to human; animal, plant or fish life or creates a public nuisance;

q) Recognizable portions of the human or animal anatomy;

r) Floatable material which is readily removable;

s) Radioactive wastes or isotopes;

t) Grinder food wastes from commercial kitchens, markets, or food plants;

u) Trucked or hauled pollutants, except at discharge points designated by the City;

v) Human or animal blood suspected or known to contain bloodborne pathogen(s);

w) Pharmaceutical wastes;

x) Medical wastes; or

y) Sharps.

B. Permit Provisions

1. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

2. Duty to Comply

The Industrial User must comply with the provisions of L.A.M.C. 64.30 and all conditions of this permit. Failure to comply with the requirements of this permit may be grounds for administrative action or enforcement proceedings, including civil or criminal penalties, injunctive relief and summary abatements.

3. Duty to Mitigate

The Industrial User shall take all reasonable steps to minimize or correct any adverse impact to the public treatment plant or the environment resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

4. Modification or Revision of the Permit

This permit may be modified, revoked and reissued or terminated for good causes including, but not limited to, the following:

a) The incorporation of any new or revised Federal, State or Local pretreatment standards or requirements;

b) Material or significant alterations or additions to the Industrial User's operational processes or discharge volume or character which were not covered in the effective permit;

c) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge;

d) Information indicating that the permitted discharge poses a threat to the City of Los Angeles' collection and treatment systems, POTW personnel or the receiving waters;

e) A violation of any terms or conditions of this permit;

f) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;

g) A revision of or a grant of variance from such categorical standards pursuant to 40 CFR 403.13.

h) A request of the Industrial User, provided such request does not create a violation of any existing applicable requirements, standards, laws or rules and regulations; or

i) A correction of typographical or other errors in the permit.

5. Property Rights

The issuance of this permit does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor does it authorize any violation of Federal, State or Local laws or regulations.

6. Limitation of Permit Transfer

An Industrial Wastewater Permit shall not be transferable by operation of law or otherwise, either from one location to another or from one person to another. Statutory mergers or name changes shall not constitute a transfer or a change in ownership.

7. Duty to Reapply

To continue an activity regulated by this permit after the expiration date, the Industrial User must file an application for permit renewal at least 90 days before the expiration date of this permit.

8. Dilution

The Industrial User shall not increase the use of potable or process water or, in any way, attempt to dilute an effluent as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

9. Compliance with Applicable Pretreatment Standards and Requirements

The Industrial User shall comply at all times with any and all applicable Local, State and Federal pretreatment standards and requirements including Best Management Practices and any such standards or requirements that may become effective during the term of this permit. In addition, the Industrial User may be required to prepare a pollution prevention plan.

10. Confidentiality

a) Any information, except for discharge and effluent data, submitted to the City pursuant to this Permit may be claimed by the Industrial User to be confidential. Any such claim must be asserted at the time of submission of the information or data to the City. The claim may be asserted by stamping the words "Confidential Business Information" on each page containing such information or by other means; however, if no claim is asserted at the time of submission, the City may make the information available to the public without further notice. If such a claim is asserted, the information will be treated in accordance with the procedures set forth in 40 CFR Part 2 (Public Information).

b) Information and data provided to the City which is effluent data shall be available to the public without restriction.

C. Operation and Maintenance of Pollution Controls

1. Proper Operation and Maintenance

The Industrial User shall at all times properly operate and maintain all facilities and systems for treatment and control (and related appurtenances) which are installed or used by the Industrial User to achieve compliance with the conditions of this permit. Proper operation and maintenance includes but is not limited to effective performance, adequate funding, adequate operator staffing and training and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

2. Duty to Halt or Reduce Activity

Upon reduction of efficiency of operation or loss or failure of all or part of the pretreatment facility, the Industrial User shall, to the extent necessary to maintain compliance with its permit, control its production or discharge (or both) until operation of the pretreatment facility is restored or an alternative method of pretreatment is provided. This requirement applies, for example, when the primary source of power of the pretreatment facility fails or is reduced. It shall not be a defense for an Industrial User in an enforcement action to state that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

3. Removed Substances

Solids, sludge, filter backwash or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in accordance with section 405 of the Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act.

4. Bypass of Treatment Facilities

a) Bypass is prohibited unless it is unavoidable to prevent loss of life, personal injury or severe property damage or no feasible alternatives exist.

b) The Industrial User may allow bypass to occur which does not cause effluent limitations to be exceeded, but only if it is also for essential maintenance to assure efficient operation.

c) Notification of bypass:

(1) Anticipated bypass. If the Industrial User knows in advance of the need for a bypass, written notice shall be submitted to the Director at least ten days prior to the anticipated date of bypass.

(2) Unanticipated bypass. The Industrial User shall provide oral notice of an unanticipated bypass that exceeds applicable Pretreatment Standards to the Director at (323) 342-6200 within 24 hours from the time the Industrial User becomes aware of the bypass. A written notice shall also be provided within 5 days of the time the Industrial User becomes aware of the bypass. The written notice shall contain the following:

(i) A description of the bypass including its cause and duration;

(ii) Whether the bypass has been corrected; and

(iii) The steps taken or to be taken to reduce, eliminate and prevent reoccurrence of bypassing.

D. Monitoring and Records

1. Flow Measurements

If flow measurement is required by this permit, the appropriate flow measurement devices and methods consistent with approved scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharge. The devices shall be installed,

calibrated and maintained to ensure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 5 percent from true discharge rates throughout the range of expected discharge volumes.

2. Monitoring Waiver from a Categorical Pretreatment Standard

The Industrial User subject to a Categorical Pretreatment Standard may seek a waiver from the Director to forego sampling of a pollutant regulated by a Categorical Pretreatment Standard if the Industrial User has demonstrated through sampling and other technical factors that the pollutant is neither present nor expected to be present in the discharge, or is present only at background levels from intake water and without any increase in the pollutant due to activities of the Industrial User. To qualify for the waiver, the Industrial User shall:

a) Request for a monitoring waiver signed by an authorized or duly authorized representative of the Industrial User and include the following certification statement: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations";

b) Provide data from at least one sampling of the facility's process wastewater prior to any treatment present at the facility that is representative of all wastewater from all processes; and

c) Submit a new request for the waiver before the waiver can be granted for each subsequent individual wastewater discharge permit.

3. Inspection and Entry

The Industrial User shall allow the Director or an authorized representative, upon the presentation of credentials and other documents, entry to and inspection of the premises. The applicant, by accepting any permit issued pursuant to L.A.M.C. Section 64.30, does hereby consent and agree to the entry upon the premises, described in the permit, by Department personnel for the following purposes as required by this permit or L.A.M.C Section 64.30 or other applicable laws. The City shall be afforded access at all reasonable times:

a) for the purposes of inspection, sampling, flow measurement, examination of records in the performance of other authorized duties;

b) to set up on the Industrial User's property such devices as are necessary to conduct sampling inspections, compliance monitoring, flow measuring or metering operations;

c) to inspect and copy any records, reports, test results or other information required to carry out the provisions of L.A.M.C. Section 64.30, the industrial wastewater permit, or other applicable laws; and

d) to photograph any waste, waste container, vehicle, waste treatment process, discharge location, or violation discovered during an inspection.

The applicant, by accepting any permit issued, does hereby consent and agree to entry upon the premises as described herein. Any person violating this authority shall be guilty of a misdemeanor.

4. Retention of Records

a) The Industrial User shall retain records of all monitoring information, including documentation associated with Best Management Practices and all calibration and maintenance records, all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit and records of all data used to complete the application for this permit, for a period of at least

three years from the date of the sample, measurement, report or application. This period may be extended by request of the City of Los Angeles at any time.

b) All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the City of Los Angeles shall be retained and preserved by the Industrial User until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

5. Record Contents

Records of sampling and analyses shall include the following:

a) the date, exact place, time and methods of sampling or measurement, and sample preservation techniques or procedures;

b) Who performed the sampling or measurements;

c) The date(s) analyses were performed;

d) Who performed the analyses;

e) The analytical techniques or methods used; and

f) The results of such analyses.

6. Falsifying Information

No person shall knowingly make any false statement, representation or certification in any application, record, report, plan or other document filed with the City of Los Angeles. In addition, no person shall tamper with or knowingly render inaccurate any monitoring device required under this permit.

The reports and other documents required to be submitted or maintained under this Industrial Wastewater Permit shall be subject to:

a) The provisions of 18 U.S.C. Section 1001 relating to fraud and false statements;

b) The provisions of Section 309 (c) (4) of the Clean Water Act (CWA), as amended, governing false statements, representation or certification; and

c) The provisions of Section 309 (c) (6) of the Clean Water Act (CWA), as amended, regarding responsible corporate officers.

D. Additional Reporting Requirements

1. Notification of Planned Changes

The Industrial User shall immediately notify the Director in advance of any significant change to the Industrial User's operations or system which might alter the nature, quality, or volume of its wastewater including the listed or characteristic hazardous wastes for which the Industrial User had submitted initial notification under 40 CFR 403.12(p). The Director may require that a new Industrial Wastewater Permit application be filed and a new permit obtained before any planned changes take place.

2. Duty to Provide Information

The Industrial User shall furnish to the Director any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing or terminating this permit. The Industrial User shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

3. Notification of a Slug or Potential Slug Discharge

The Industrial User shall notify the Director immediately upon the occurrence of a slug discharge or any changes at its facility affecting the potential for a slug discharge of substance(s) prohibited by L.A.M.C. Section 64.30 that may enter the public sewer. The Director shall be notified by telephone at (323) 342-6200. The notification of a slug discharge shall include location of discharge, date and time thereof, type of waste, including concentration and volume, and corrective action taken. The Industrial User's notification of accidental cases in accordance with this permit does not relieve it of other reporting requirements that arise under Local, State or Federal laws.

4. Operating Upsets

Any Industrial User that experiences an upset in operations that places the Industrial User in a temporary state of noncompliance with the provisions of either this permit or with L.A.M.C. Section 64.30 shall notify the Director within 24 hours of becoming aware of the upset at (323) 342-6200. The notification shall include the location of discharge, type of material, concentration and volume, and corrective actions taken.

A written follow-up report of the upset shall be filed by the Industrial User with the Director within five (5) days. The report shall contain the following information:

a) A description of the upset, the cause(s) thereof and the upset's impact on the Industrial User's compliance status;

b) The duration of noncompliance, including exact dates and times of noncompliance, and if the noncompliance continues, the time by which compliance is reasonably expected to occur; and

c) All steps taken or to be taken to reduce, eliminate and prevent recurrence of such an upset or other conditions of noncompliance.

The report must also demonstrate that the treatment facility was being operated in a prudent and workmanlike manner.

A documented and verified operating upset shall be an affirmative defense to any enforcement action brought against the Industrial User for violations attributable to the upset event.

5. Slug Discharge Control Plan

Upon request by the LA Sanitation, the Industrial User is required to submit a Slug Discharge Control Plan to address how the Industrial User will respond to spills, bypass, and any accidental discharges that could violate any permit limits or conditions or impact the City sewer system. The plan shall contain detailed procedures to be followed by the Industrial User in the event a slug discharge occurs. The Slug Discharge Control Plan must contain, at a minimum, the following:

a) Description of sewer discharge practices, including non-routine batch discharges;

b) Description of stored chemicals including type and characteristic, volume, and chemical hazard classification;

c) Procedures for promptly notifying the City of slug discharges, including any discharges that would violate a prohibition under 40 CFR 403.5(b), with procedures for follow-up written notification within five days;

d) Any necessary procedures to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operation, control of plant site run-off and worker training;

e) Any necessary measures for building any containment structures or equipment;

f) Any necessary measures for controlling toxic organics (including solvents); and/or

g) Measures and equipment for emergency response.

6. Notification of Hazardous Waste Discharged into POTW

An Industrial User not exempt from the requirements under 40 CFR 403.12(p) shall notify the City of Los Angeles, LA Sanitation; the EPA Region 9, Hazardous Waste Management Division; and the California Environmental Protection Agency, Department of Toxic Substances Control in writing of any discharge into the City of Los Angeles sewer system of a substance, which, if otherwise disposed of, would be a hazardous waste under 40 CFR part 261. The written notification shall be submitted to the City of Los Angeles LA Sanitation, the EPA Region 9 and the California Environmental Protection Agency.

7. Signatory Requirements

All applications, reports or information submitted by the Industrial User to the Director must contain the following certification statement and be signed by an authorized representative indicated below:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

An authorized representative shall mean the following:

(a) a president, secretary, treasurer, or vice-president in charge of a principal business function, or any other person who performs similar policy or decision-making functions, if the Industrial User is a corporation;
(b) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to (1) make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; (2) ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements; and (3) sign documents in accordance with corporate procedures;
(c) a general partner or proprietor if the Industrial User is a partnership or proprietorship, respectively;
(d) a principal executive officer or director having responsibility for the overall operation of the discharging facility or a ranking elected official if the Industrial User is a governmental entity, charitable organization or other such unincorporated entity; or
(e) a representative authorized in writing by any individual designated above, if the authorization is submitted to the Director and specifies an individual or a position having responsibility for the overall operation of the facility. This includes the position of plant manager, a position of equivalent responsibility, or an individual having overall responsibility for environmental matters for the company. If an authorization under Paragraph (e) is no longer accurate because a different individual or position has the responsibility for the overall operation of the facility, or overall responsibility for environmental matters of the company, a new authorization satisfying the requirements of Paragraph (e) of this Permit must be submitted to the Director prior to, or together with, any reports to be signed by an authorized representative.

8. Annual Publication Of Significant Noncompliance

The Industrial User in noncompliance with applicable Federal Pretreatment Standards, Best Management Practices or other Pretreatment Requirements during the twelve (12) previous months may lead to an enforcement action resulting in publication of its name in a newspaper(s) of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW. For purposes of this

provision, significant noncompliance is defined under 40 CFR 403.8 (f)(2)(viii) and L.A.M.C. Section 64.30.E.8.

9. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the Industrial User from civil and/or criminal penalties for noncompliance under L.A.M.C. Section 64.30 or State or Federal laws and regulations.

10. Penalties for Violations of Permit Conditions

The L.A.M.C. Section 64.30 provides that any person who violates a permit condition is subject to a civil penalty in the maximum sum provided by law for each day in which such violation occurs. Any person who willfully or negligently violates permit conditions is subject to criminal penalties of up to $1000.00 per violation per day and/or by imprisonment in the County Jail for a period of not more than six (6) months. The Industrial User may also be subject to sanctions under State and/or Federal law.

11. Liability For Costs Incurred From Unlawful Discharge

Whenever any Industrial User introduces or causes to be introduced wastewater in violation of this permit or the L.A.M.C. and such discharge, either singly or by interaction with other discharges, results in damage to or is otherwise detrimental to or adversely affects the P.O.T.W., the storm drain system, or any Waters of the State, said Industrial User shall be liable to the City for reasonable costs necessary to correct that discharge, detriment or adverse effect, including, but not limited to labor, material, inspection, transportation, overhead, and incidental expenses associated with the corrective action. The Industrial User shall additionally be liable to the City for the reasonable costs of investigation by the City arising from the unlawful discharge.

12. Civil Liability

Violation of any pretreatment standards or requirements or any term or condition or applicable compliance schedule of this permit, the Industrial User shall be civilly liable to the City in a sum of not to exceed twenty-five thousand dollars ($25,000) a day for each violation.

13. Resource Conservation Recovery Act Notification and California Hazardous Waste Control Law

It is the responsibility of the Industrial User to ensure that the operations performed at their site comply with federal hazardous waste management regulations under subtitles C & D of the Resource Conservation and Recovery Act (RCRA) and California hazardous waste management regulations under the Hazardous Waste Control Law (Chap. 6.5, HSC, Sec. 25100 et. seq.) and California Code of Regulations (CCR), Titles 8 and 22. For information on federal and state hazardous waste regulations, contact the California Environmental Protection Agency, Department of Toxic Substances Control.

F. Definitions

1. Best Management Practices (BMP) - Activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce pollutants in discharges. BMP also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.

2. Bi-Monthly - Once every other month.

3. Bypass - The intentional diversion of wastestreams from any portion of an Industrial User's treatment facility.

4. Categorical Pretreatment Standards - Limitations on pollutant discharges to POTWs, promulgated by EPA in accordance with Section 307 of the Clean Water Act, that apply to specified process wastewaters of particular industrial categories.

5. Commercial Establishment – A private establishment such as a restaurant, hotel, laundry, store, filling station, or recreational facility. A nonprofit private or government entity such as a church, school,

hospital, military facility, correctional institution recreational facility or a facility owned or operated by a charitable organization is considered a commercial establishment.

6. Commingled Load – A load of septage which includes septage generated both within and outside the City's boundaries.

7. Composite Sample - A sample that is collected over time, formed either by continuous sampling or by mixing discrete samples. The sample may be composited either as a flow proportional composite sample (collected either as a constant sample volume at time intervals proportional to stream flow or collected by increasing the volume of each aliquot as the flow increases while maintaining a constant time interval between the aliquot) or as a time composite sample (composed of discrete sample aliquot collected in one container at constant time intervals providing representative samples irrespective of stream flow).

8. Cooling Water

   a) Uncontaminated - Water used only for cooling purposes which has no direct contact with any raw material, intermediate or final product and which does not contain a level of contaminants detectably higher than that of the intake water.

   b) Contaminated - Water used only for cooling purposes which may become contaminated either through the use of water treatment chemicals used for corrosion inhibitors or biocides or by direct contact with process materials and/or wastewater.

9. Daily Maximum - The maximum allowable discharge of a pollutant during a calendar day. Where daily maximum limitations are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where daily maximum limitations are expressed in terms of a concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day.

10. Director - The Director of the LA Sanitation of the Department of Public Works of the City of Los Angeles or the duly authorized representative thereof.

11. Domestic Septage – The liquid or solid material removed from a private sewage disposal system (PSDS), portable toilet or other holding device that receives only domestic sewage.

12. Domestic Wastewater (Domestic Sewage) – Sanitary wastewater and wastewater generated from household type operations.

13. Establishment - An economic unit, generally at a single physical location, where business is conducted or where services or industrial operations are performed.

14. Facility - All buildings, equipment, structures, and other stationary items which are located on a single site or on contiguous or adjacent sites and which are owned or operated by the same person (or by any person which controls, is controlled by, or under common control with such person) and is authorized by the City of Los Angeles to discharge industrial wastewater to the POTW. A facility may contain more than one establishment.

15. Food Service Establishment - A facility engaged in preparing food for consumption by the public such as, but not limited to, a restaurant, bakery, commercial kitchen, caterer, hotel, school, hospital, prison, correctional facility, or care institution.

16. Four (4) - Day Average – The average of daily values for four consecutive monitoring days.

17. Grab Sample - An individual sample collected in less than 15 minutes, without regard for flow.

18. Gravity Grease Interceptor (GGI) - An approved device with a minimum total volume of 300 gallons that is specifically designed to separate, trap, and hold nonpetroleum fats, oil, and grease (FOG) from an industrial wastewater discharge, and which shall be remotely located from where food is handled, and

is identified by the following: volume, a minimum retention time of 30 minutes, baffle(s), a minimum of two compartments, and gravity separation.

19. Hydromechanical Grease Interceptor (HGI) - An approved device that is installed in an industrial wastewater drainage system to separate, trap, and hold nonpetroleum fats, oil, and grease (FOG) from a wastewater discharge and is identified by flow rate, retention time, and separation efficiency. HGI design incorporates, in combination or separately, air entrainment, hydromechanical separation, interior baffling, and internal barriers.

20. Industrial User – A person that has been authorized to discharge industrial wastewater into the City of Los Angeles POTW.

21. Industrial Wastewater - Liquid and any water - carried waste other than domestic sewage. Wastewater generated from household type operations, including, but not limited to dishwashing, laundry, and car washing, performed at commercial establishments for or to support commercial purposes is considered industrial wastewater.

22. Instantaneous Maximum - The allowable maximum concentration determined from the analysis of any discrete or composited sample collected, independent of the industrial flow rate and the duration of the sampling event.

23. Interference - A discharge which alone or in conjunction with a discharge or discharges from other sources both:

    a) Inhibits or disrupts the POTW, its treatment processes or operations or its sludge processes, use or disposal; and

    b) Causes a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or prevents the use of disposal of sewage sludge. The following statutory provisions and regulations or permits issued thereunder apply (or more stringent State or Local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA) and including State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act and the Marine Protection, Research and Sanctuaries Act.

24. Monthly Average - The maximum allowable value for the average of all observations obtained during one calendar month. Compliance with the monthly average discharge limit is required regardless of the number of samples analyzed and averaged. Therefore, if only one sample is taken during the calendar month, results of the one analysis will be used to determine compliance with the monthly average.

25. Non-Domestic Septage – The liquid or solid material removed from a private sewage disposal system (PSDS) or other sanitation holding device that receives industrial wastewater or a combination of domestic and industrial wastewater.

26. Pass Through - A discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, cause a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).

27. Person - Any individual, partnership, co-partnership, firm, company, corporation, association, joint stock company, trust, estate, governmental entity or any other legal entity, or their legal representatives, agents or assigns. The masculine gender shall include the feminine, the singular shall include the plural where indicated by the context.

28. Portable Toilet – Any portable or permanently installed sanitation apparatus or system which includes a tank for toilet waste retention. Portable Toilet includes sanitation holding devices from airplanes, trains, boats with type III marine sanitation devices, buses, movie dressing room trailers, recreational vehicles, or other similar transport vehicles.

29. Private Septage Disposal Facility (PSDF) – A disposal site, other than a City designated discharge location, with a direct connection to the City sewer, which accommodates the discharge of hauled septage.

30. Publicly Owned Treatment Works (POTW) - A treatment works as defined by Section 212 of the Clean Water Act which is owned by the State or municipality. This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW treatment plant.

31. Resource Conservation and Recovery Act (RCRA) - A Federal statute regulating the management of hazardous waste from its generation through ultimate disposal. The Act contains requirements for waste generators, transporters and owners and operators of treatment, storage and disposal facilities.

32. Sanitary Wastewater – Wastewater of human origin derived from toilets, urinals, showers, baths and restroom sinks.

33. Septage – The liquid or solid material removed from a private sewage disposal system (PSDS), portable toilet or other sanitation holding device that receives wastewater.

34. Septage Hauler – A person or an owner/operator of a business that holds Septage Disposal Permit(s) issued by the Director to discharge septage to the City's P.O.T.W.

35. Slug Discharge - Any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge, which has a reasonable potential to cause Interference or Pass Through, or in any other way violate the POTW's regulations, local limits or permit conditions.

36. Total Toxic Organics (TTO) - The sum of the masses or concentrations greater than 0.01 mg/l of the specific toxic organic compounds regulated by specific categorical pretreatment regulations which is found in the discharge at specific quantifiable concentrations.

37. Type III Marine Sanitation Device – A device that is designed to prevent the overboard discharge of treated or untreated domestic sewage.

38. Upset - An exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the Industrial User, excluding such factors as operational error, improperly designed or inadequate treatment facilities or improper operation and maintenance or lack thereof.

39. Wastewater - Liquid and water - carried industrial and/or domestic wastes and sewage from facilities including, but not limited to, dwellings, commercial buildings, industrial facilities, agricultural activities, hospitals, medical facilities and other institutions, together with other wastes which may be present, whether treated or untreated, which enter the POTW.

APPENDIX A
Fact Sheet

FACT SHEET
Renewal Date: 09/01/2020

A. INDUSTRIAL USER INFORMATION

SUNSHINE CANYON LANDFILL
14747 San Fernando Road
Sylmar, CA 91342

IU128862
W-535428

Tuong-Phu Ngo, Environmental Manager
(818) 362-2096

B. DESCRIPTION OF FACILITY OPERATIONS

Sunshine Canyon Landfill is primarily engaged in receiving and processing municipal waste (SIC 4953). The landfill generates various liquid streams at the site including mildly contaminated seep water, leachate, gas system condensate, and gas well liquids. The seep water consists of three different streams which include cutoff wall water, mildly contaminated seep water impacted by the landfill, and subdrain water.

The different liquid streams generated at the landfill are presented below:

1. Gas Well Liquids: Gas well liquids are liquids pumped from the gas extraction wells in order to allow for removal of landfill gas (LFG) from the landfill. The gas condensate is collected at the low points in the gas collection system throughout the site and at the flare stations. The gas well liquids are stored in frac tank storage area and are pumped to the sewer lift station for direct sewer discharge.

2. Condensate: Gas condensate is produced due to the temperature drop that takes place as the LFG is conveyed from the gas extraction wells to the flare stations for combustion. Condensate is pumped to the frac tank storage area and then pumped to the sewer lift station for direct sewer discharge.

3. Seep Water: Spring (Seep) and underdrain water emerges and is collected throughout the landfill area. Seep water contains trace levels of VOCs. Seep Water sources may be treated in the on-site water reuse treatment systems or may be directly discharged. There are three types of Seep Water, each treated separately, as described below.

- City Seep Water: collected from gravity drains under the old city portion of the landfill.
- Cutoff Wall Water: subsurface water (groundwater) pumped from area near the front entrance of the site. This stream is similar in characteristics to the Seep Water.
- Subdrain Water: spring water collected underneath the County landfill, and conveyed by gravity to the front entrance area of the landfill.

4. Leachate: The leachate is collected at the bottom of the lined disposal areas. Extraction pumps convey leachate streams to the treatment systems for on-site water reuse or directly to the direct sewer discharge.

Operation at the facility began in 1958. Sunshine Canyon Landfill operates six days per week and employs 60 personnel.

C. SAMPLE POINT DESCRIPTION/FACILITY FLOW INFORMATION

INDUSTRIAL WASTEWATER PERMIT	SAMPLE POINT	FLOW PER OPERATIONAL DAY (GPD)		DESCRIPTION
		TOTAL	PROCESS	
W-535428	01	300,000	300,00	Secured Sampling Facility is located at the Magnetic Flow meter Vault.
TOTAL		300,00	300,00	----

D. PROCESS UNIT OPERATION/FLOW INFORMATION

PERMIT NUMBER	SAMPLE POINT	PROCESS UNIT OPERATION CODE	PROCESS DESCRIPTION
W-535428	01	LWDB000	Landfill Leachate Collection

E. DILUTION/AUXILIARY OPERATION/FLOW INFORMATION

Sunshine Canyon Landfill does not generate any dilution wastestream that combines with a process wastestream prior to Sample Point 01.

F. FLOW MEASURING DEVICE

Sunshine Canyon Landfill has installed a flow measuring device to monitor the wastewater discharge to the City Sewer.

G. PRETREATMENT UNIT OPERATION(S)

Process wastewater generated from Gas Well Liquids, Condensate, Seep Water and Leachate flows through an on-site treatment system. Treatment consists of hydrogen peroxide injection at three locations: after initial liquids are added to the tanks, at the head of the 2,100-foot force main to the compliance monitoring point, and near the sample location to polish the effluent before discharge. There are three inline oxidation reduction potential (ORP) meters: ORP1 is after the initial hydrogen peroxide injection point, ORP2 is after the second hydrogen peroxide injection point, and ORP3 is just prior to the compliance monitoring point. Treatment systems were installed to treat the cutoff water, seep water, subdrain water, and leachate streams; these streams may be treated for use on site for dust control and/or may be directly discharged to the sewer. The gas well liquids and gas system condensate flows do not undergo any pre-treatment and are discharged directly to the City Sewer through Sample Point 01.

INDUSTRIAL WASTEWATER PERMIT W-535428

PRETREATMENT UNIT OPERATION CODE	PRETREATMENT UNIT OPERATION DESCRIPTION
AD0010	ADSORPTION - ACTIVATED CARBON
CX0010	CHEMICAL OXIDATION - DISSOLVED SULFIDE OXIDATION
NE0010	NEUTRALIZATION
0110TR	RECIRCULATION

H. POLLUTION PREVENTION

SUNSHINE CANYON LANDFILL has implemented the following pollution prevention practice(s).

POLLUTION PREVENTION PRACTICE CODE	POLLUTION PREVENTION PRACTICE DESCRIPTION
OPM60	Employee training
OPM70	Housekeeping

I. DISCHARGE LIMITATIONS AND MONITORING

See permit, PART 2 - DISCHARGE LIMITATIONS.
See permit, PART 3 - MONITORING REQUIREMENTS

J. REPORTING REQUIREMENTS

See permit, PART 4 - REPORTING REQUIREMENTS.

K. SPECIAL CONDITIONS

See permit, PART 5 - SPECIAL CONDITIONS.

L. STANDARD CONDITIONS

See permit, PART 6 - STANDARD CONDITIONS.

M. RATIONALE FOR EFFLUENT LIMITATIONS

Sunshine Canyon Landfill does not perform any of the operations covered under the Federal Pretreatment Categorical Standards. However, the Federal definition of Significant Industrial User applies to this facility because the process wastewater generated and discharged is greater than 25,000 gpd. As a result, Sunshine Canyon Landfill is required to comply with 40 CFR 403.12.

Since the total process wastewater from this facility is greater than 25,000 gallons per day, this facility is classified as a Significant Industrial User.

Sample Point 01 is the last point of discharge to the sewer system and the Local Limit applies at this point. One set of limits apply to the discharges from this facility to the City of Los Angeles sewer system: the Local Limits. Therefore, Sunshine Canyon Landfill is required to self-monitor for Local Limits semi-annually.

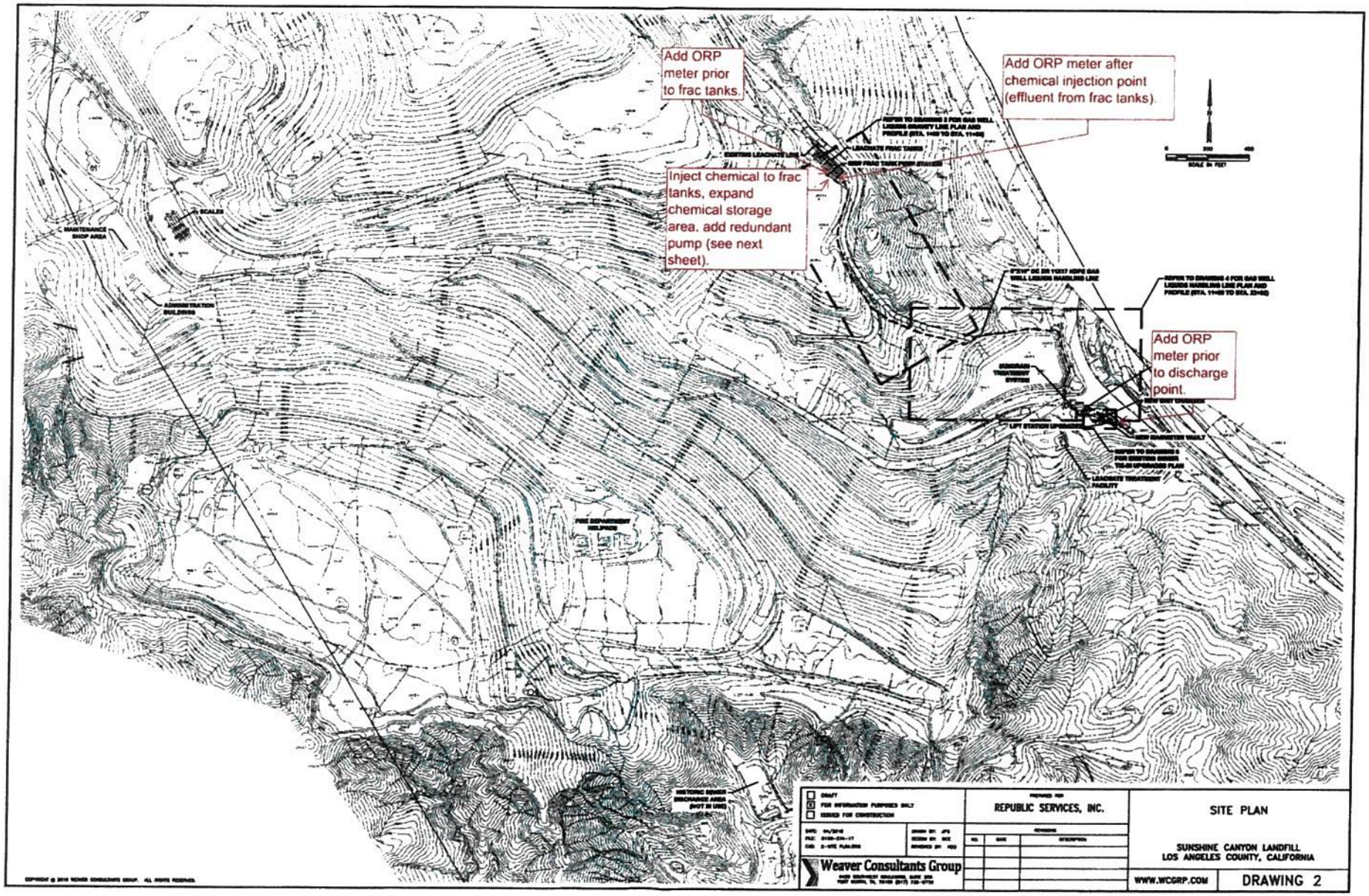
Sunshine Canyon Landfill has chosen to measure the average daily flow to sewer as stated in 40CFR 403.12. (e)(1).

Prepared By: Jocelyn Carrillo Date: 08/25/2020

Reviewed By: Nataly Dakak Date: 08/26/2020

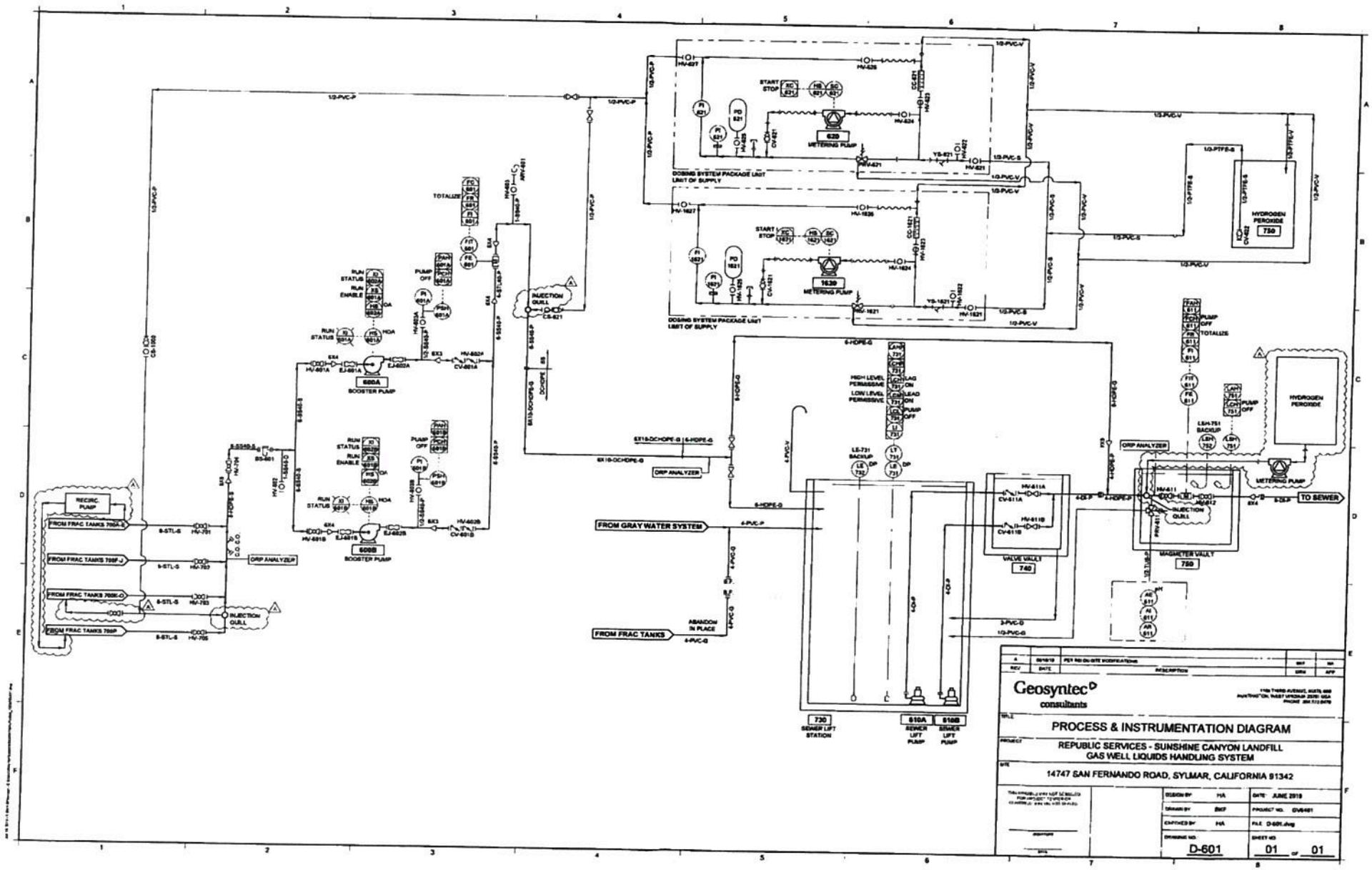
IU128862.fst/jnc

APPENDIX B
Attachments



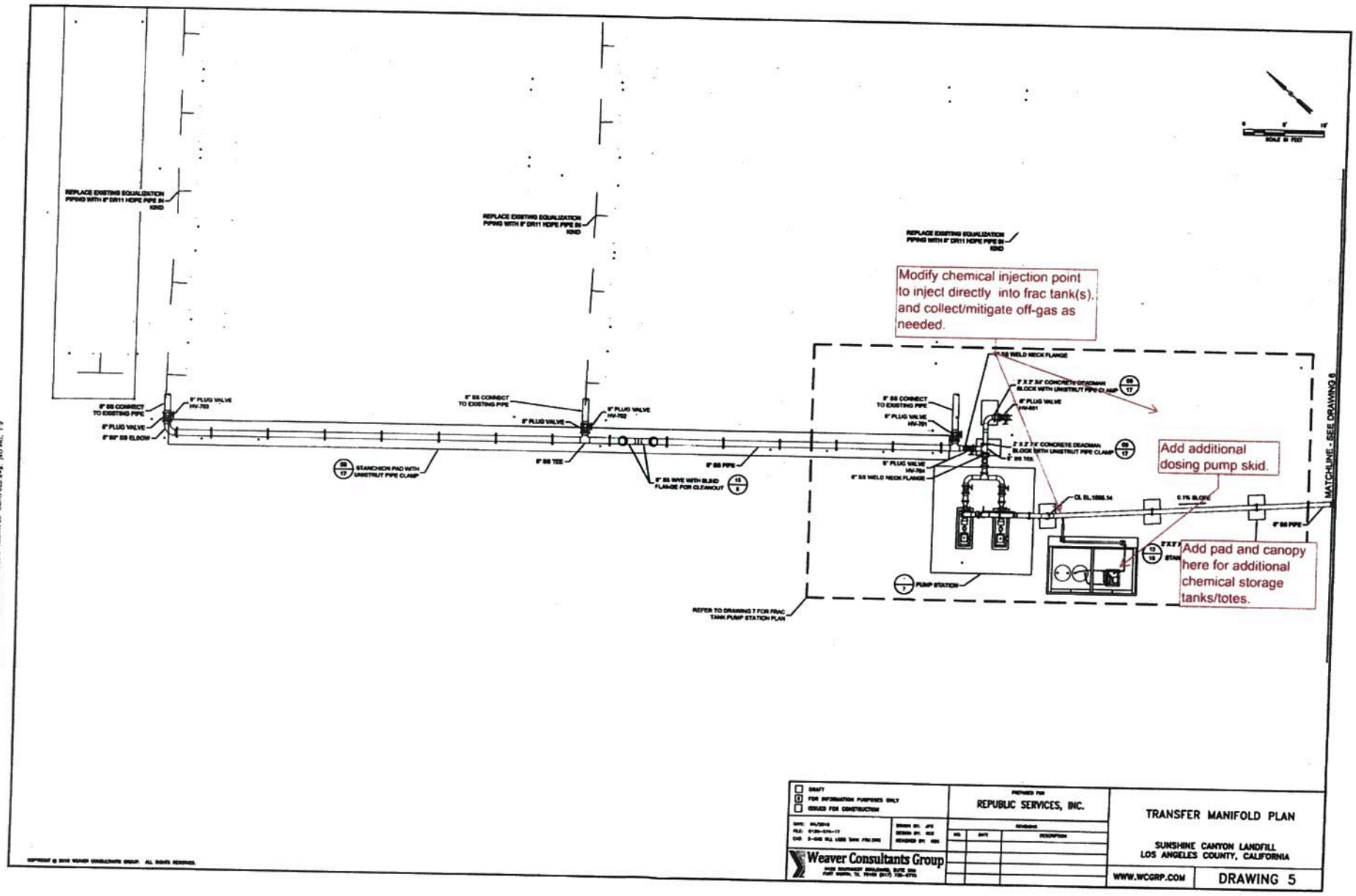
Jung Phi Ngo 8-10-2020

Appendix B: Attachment 1 of 5	Page 1 of 1
DBA: SUNSHINE CANYON LANDFILL	**IU** 128862
Permit(s) W- 535428	



Jerry Phillips 8-10-2020

Appendix B: Attachment 2 of 5 Page 1 of 2	
DBA: SUNSHINE CANYON LANDFILL	**IU** 128862
Permit(s) W- 535428	



Thuong Phu Nguyen 8-10-2020

Appendix B: Attachment 2 of 5	Page 2 of 2
DBA: SUNSHINE CANYON LANDFILL	**IU 128862**
Permit(s) W- 535428	

SEWER FACILITIES CHARGE (SFC)
BONDED AND SPECIAL SEWER CONNECTION CERTIFICATE

City of Los Angeles
Department of Public Works
Bureau of Engineering

JOB ADDRESS: 14747 N SAN FERNANDO ROAD
Applicant Name: REPUBLIC SERVICES, INC
Address: 18500 N ALLIED WAY
City: PHOENIX State: AZ Zip Code: 85054
Phone No.: 818.362.2151

Date Issued: 05/24/2017
Engineering District: Valley
Issued By: Lee guilbeaux , VALLEY DISTRICT
Tract No.: TR 10422
Lot No.: LT 9
APN: 2601011012
Previous Certificate
Issued: 2014811132,2015810613
Sewer Map No: 225-135-2,228-133-4,228-133-2
Sewer Permit No.: S2014810129
Remarks: SUNSHINE CANYON LANDFILL
INDUSTRIAL WASTE PERMIT W-535428

SEWER FACILITIES CHARGE CREDIT FLOW AFTER JULY 1, 1994

ID	FACILITY DESCRIPTION	RATE	UNIT	QUANTITY	AMOUNT

Subtotal SFC Credited = $0.00

SEWER FACILITIES CHARGE FLOW FEE

ID	FACILITY DESCRIPTION	RATE	UNIT	QUANTITY	AMOUNT
159708	INDUSTRIAL DISCHARGE	386.00	GPD	182,000.00	$702,520.00

Subtotal SFC Fee = $702,520.00

Total SFC Amount Due =$702,520.00 - $0.00= $702,520.00

BONDED SEWER FEES:

Bonded Sewer Fee = $74.00 x = $0.00
Bonded Lateral Fee = $84.00 x = $0.00
7% Surcharge for Bonded Lateral Fee= $0.00
Total Bonded Amount Due= $0.00

X_____Date:_____

The following Sewerage Facilities Charges have been paid for the above described property by the above signed in behalf of the owner and succeeding owners in accordance with Secitons 64.11.2, 64.11.3,64.16.1, of the L.A.M.C..	**CERTIFICATE NO.: C-2017810921**
The following Sewer Fees (SPECIAL FEE)(BONDED) House Connection Sewer in accordance with Section 64.15 (B)/64.18 have been paid for (all) (a portion) of the property described above by the above signed in behalf of the owner and succeeding owners.	**CERTIFICATE NO.: D-**

City of Los Angeles
Bureau of Engineering

Sewer Capacity Availability Request (SCAR)

To: Bureau of Sanitation
The following request is submitted to you on behalf of the applicant requesting to connect to the public sewer system. Please verify that the capacity exists at the requested location for the proposed developments shown below. The results are good for 180 days from the date the sewer capacity approval from the Bureau of Sanitation.

Job Address:	**14747 SAN FERNANDO RD**	Sanitation Scar ID:	**60-3563-0317**
Date Submitted	03/10/2017	Request Will Serve Letter?	No
BOE District:	Valley District		
Applicant:	GEO-LOGIC ASSOCIATES, INC		
Address:	2777 E GUASTI RD STE 1	City :	ONTARIO
State:	CA	Zip:	91761
Phone:	530-632-1215	Fax:	
Email:	CBARRETT@GEO-LOGIC.COM	BPA No.	14042-20000-05291
S-Map:	350	Wye Map:	228-137-3

SIMM Map - Maintenance Hole Locations

No.	Street Name	U/S MH	D/S MH	Diam. (in)	Approved Flow %	Notes
1	SAN FERNANDO RD	35001001	35001002	18	100.00	

Proposed Facility Description

No.	Proposed Use Description	Sewage Generation (GPD)	Unit	Qty	GPD
1	DEWATERING	1	GPD	300,000	300,000
				Proposed Total Flow (gpd):	**300,000**

Remarks: 1] Approved for the maximum allowable capacity of 300,000 GPD.(208.33 gpm). 2] Maximum allowable flow rate will be 250 gpm, not exceeding 300,000 gallons per day. 3] IWP is required.

Note: Results are good for 180 days from the date of approval by the Bureau of Sanitation

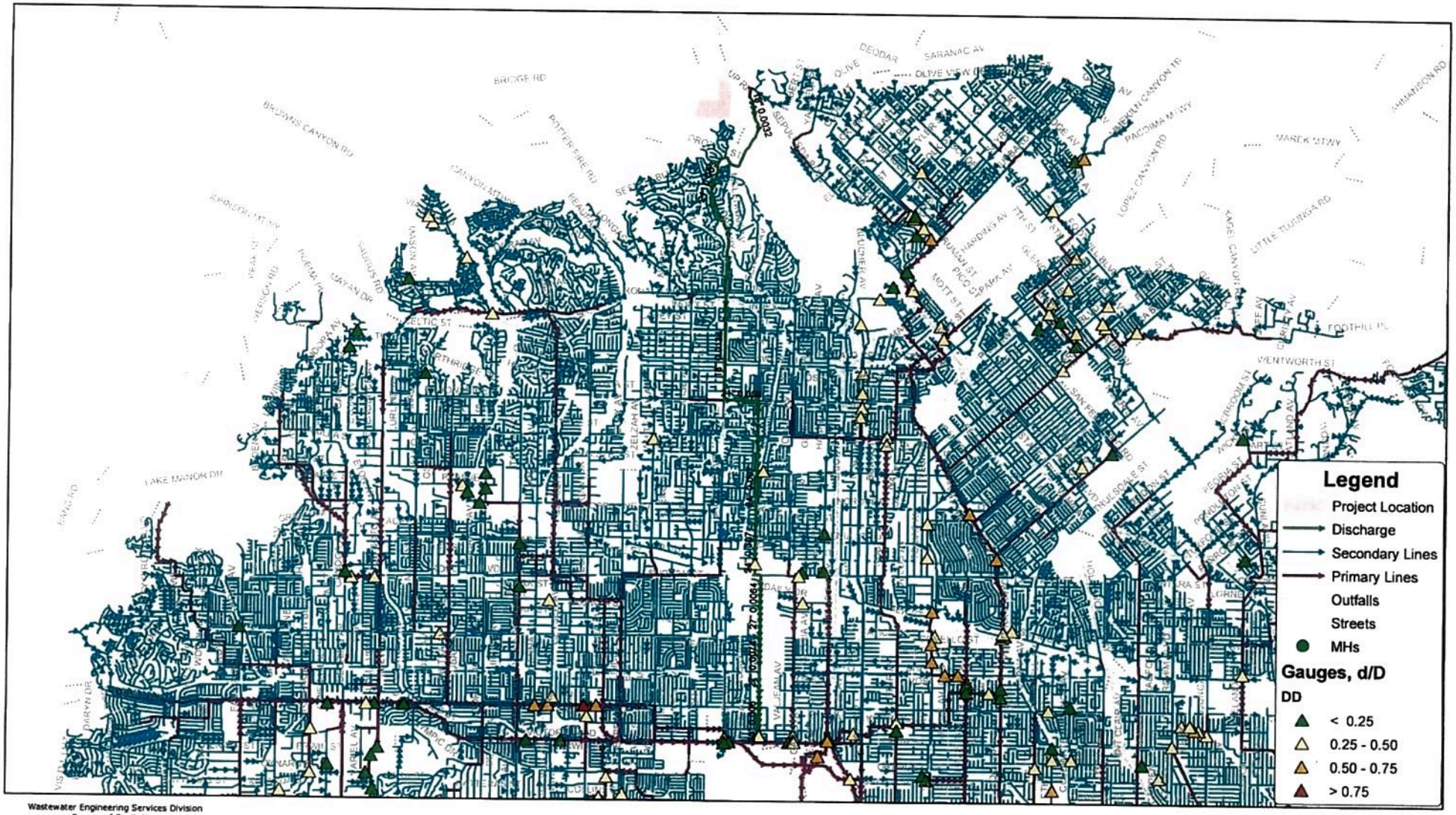
Date Processed: 03/13/2017
Expires On:

Processed by:
Bureau of Sanitation
Phone: 323-342-6207
Sanitation Status: SAN Review Completed
Reviewed by: Ricardo Avendano on 03/13/2017

Submitted by: IRENE CHIA
Bureau of Engineering
Phone:

Fees Collected: Yes
Date Collected: 03/10/2017

SCAR FEE (W:37 / QC:707) $2,568.50
SCAR Status: **SAN Review Completed**



Wastewater Engineering Services Division
Bureau of Sanitation
City of Los Angeles

Thomas Brother Data reproduced with permission granted by THOMAS BROS MAP

Figure 1
14747 SAN FERNANDO RD.
Sewer Map

Appendix B: Attachment 5 of 5 Page 1 of 1
DBA: SUNSHINE CANYON LANDFILL **IU 128862**
Permit(s) W- 535428

APPENDIX C

Self-Monitoring Report Form and Instructions

CITY OF LOS ANGELES BUREAU OF SANITATION	**INDUSTRIAL WASTE MANAGEMENT DIVISION PERIODIC COMPLIANCE REPORT**	SEND REPORT TO: CITY OF LOS ANGELES INDUSTRIAL WASTE MANAGEMENT DIVISION 2714 MEDIA CENTER DR. LOS ANGELES, CA 90065

PERMIT W - 535428	**IU- 128862**	**PH. # (818) 362-2096**	

DBA: **SUNSHINE CANYON LANDFILL**

ADDRESS: **14747 San Fernando Road Sylmar, CA 91342**

SAMPLE POINT NO.: **01-001**

SAMPLE DESC: **Secured Sampling Facility is located at Magnetic Flow meter Vault – Normal Operations**

FLOW INFORMATION

DAILY FLOWRATES:

1) SAMPLE DAY FLOW: _____ GPD, [ ]M [ ]E [ ]C

2) AVE. FLOW FOR THE MONITORING PERIOD: _____ GPD, [ ]M [ ]E [ ]C

3) MAX. FLOW FOR THE MONITORING PERIOD: _____ GPD, [ ]M [ ]E [ ]C

AUXILIARY FLOW ON DAY OF SAMPLING:

1) BOILER BLOWDOWN: _____ GPD, [ ]M [ ]E [ ]C

2) NON-CONTACT COOLING: _____ GPD, [ ]M [ ]E [ ]C

3) DEMINERALIZATION/BACKWASH: _____ GPD, [ ]M [ ]E [ ]C

4) COOLING TOWER BLEEDOFF: _____ GPD, [ ]M [ ]E [ ]C

5) OTHERS,( ): _____ GPD, [ ]M [ ]E [ ]C

BATCH DISCHARGE ONLY:

1) NO. OF OPERATIONAL DAYS: _____ DAYS

2) NO. OF DAYS FOR ACCUM: _____ DAYS

3) DISCHARGE VOLUME: _____ GALLONS

SAMPLING INFORMATION

SAMPLE TYPE	DATE		TIME		SPLIT SAMPLE (Y/N)	* PRE-NOTIFICATION DATE	SAMPLED BY	LABORATORY NAME	LABORATORY CERT. #
	START	END	START	END					
COMP									
GRAB									

DCC-Discharge Case Condition; TTO-Total Toxic Organic; CN-Cyanide
MO-Monthly; BM-BiMonthly; QT-Quarterly; SA-SemiAnnual; AN-Annual;
GPD-Gallons Per Day; M-Measured; E-Estimated; C-Calculated; COMP-Compostie;
G-Grab;
Mg/l-Milligrams Per Liter; PPD-Pounds Per Day

NOTE: *TO PRE-NOTIFY CALL (323) 342-6200.
1. Report must be submitted with U.S. Post Office postmark date by the 15th day of the month following the monitoring period.
2. Facsimiles (faxes) of these reports shall not be accepted.

FOR OFFICIAL USE ONLY: POSTMARK DATE: _____ RECEIVED DATE: _____ SMR DATA INPUT BY: _____ INPUT DATE: _____ REVIEWED BY: _____ REVIEW DATE: _____

REVISED 09/01/2020

SAMPLE POINT NO.: **01-001** **IU- 128862** PERMIT **W- 535428**	**INDUSTRIAL WASTE MANAGEMENT DIVISION** **PERIODIC COMPLIANCE REPORT**	CITY OF LOS ANGELES BUREAU OF SANITATION

SAMPLE DESC: **End-of-pipe -- Normal Operations**

GRAB DATE:	GRAB TIME:	COMP. START DATE	END DATE:	COMP. START TIME	END TIME

LABORATORY RESULTS

ANALYTE	SAMPLE TYPE		LABORATORY RESULTS		*VIOLATION	
	COMP	GRAB	CONCENTRATION	UNITS	YES	NO
Arsenic, Total						
Cadmium, Total						
Chromium, Total						
Copper, Total						
Lead, Total						
Nickel, Total						
Silver, Total						
Zinc, Total						
Chloride						
Cyanide (Free)						
Cyanide (Total)						
Oil & Grease (Total)						
Dissolved Sulfides						
pH						

* SEE PERMIT FOR THE DISCHARGE LIMITS. IF IN VIOLATION, ATTACH A STATEMENT OF REASON FOR VIOLATION AND CORRECTIVE ACTION TAKEN.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

AUTH. REPRESENTATIVE SIGNATURE	PRINT NAME	TITLE	DATE

PERMIT W- 535428 IU- 128862	PERIODIC COMPLIANCE REPORT	CITY OF LOS ANGELES, BUREAU OF SANITATION
DBA: SUNSHINE CANYON LANDFILL	SAMPLE POINT: 01-001	

DISCHARGE LIMITS: LOCAL

ANALYTE	MONITORING	INSTANTANEOUS		DAILY		MONTHLY	
		LIMIT	UNIT	LIMIT	UNIT	LIMIT	UNIT
Arsenic, Total	Semi-Annual	3.00	mg/l				
Cadmium, Total	Semi-Annual	15.00	mg/l				
Chloride	Semi-Annual						
Chromium, Total	Semi-Annual	10.00	mg/l				
Copper, Total	Semi-Annual	15.00	mg/l				
Cyanide (Free)	Semi-Annual	2.00	mg/l				
Cyanide (Total)	Semi-Annual	10.00	mg/l				
Dissolved Sulfides	Semi-Annual	0.10	mg/l				
Lead, Total	Semi-Annual	5.00	mg/l				
Nickel, Total	Semi-Annual	12.00	mg/l				
Oil & Grease (Total)	Semi-Annual	600.00	mg/l				
pH	Semi-Annual	5.50-11.00	SU				
Silver, Total	Semi-Annual	5.00	mg/l				
Zinc, Total	Semi-Annual	25.00	mg/l				

SELF-MONITORING REPORT FORM INSTRUCTIONS

==========

SECTION I : FLOW INFORMATION

Report all flows in terms of Gallons Per Day (GPD) unless noted otherwise and check (✓) if the reported flow was (M) Measured, (E) Estimated, or (C)Calculated.

A. DAILY FLOWRATES

A.1 SAMPLE DAY FLOW - Enter the discharge flow *during the sampling period (the day/s the sample was collected).*

A.2 AVERAGE FLOW FOR THE MONITORING PERIOD - Enter the average daily discharge flow *throughout the monitoring period.* For example, if the report was submitted for the 1st Bi-Monthly monitoring period, the flow should be the average daily flow during the months of January thru February.

A.3 MAXIMUM FLOW FOR THE MONITORING PERIOD - Enter the maximum discharge flow *for a single day throughout the monitoring period.*

B. AUXILLARY FLOW ON DAY OF SAMPLING - Provide a breakdown of the sources of auxillary flows *during the sampling period.* Possible sources are: B.1) Boiler Blowdown; B.2) Non-Contact Cooling; B.3) Demineralizer\ Backwash; B.4) Cooling Tower Bleedoff; and, B.5) Others (specify).

C. BATCH DISCHARGER ONLY - Applies to industrial users that discharge wastewater on a batch basis.

C.1 NO. OF OPERATIONAL DAYS - Enter the number of days that manufacturing has been performed since last batch discharge.

C.2 NO. OF DAYS FOR ACCUMULATION - Enter the number of days the wastewater has been accumulated since last batch discharge.

C.3 DISCHARGE VOLUME - Enter the total volume of wastewater discharged per batch in gallons.

SECTION II : SAMPLING INFORMATION

A. SAMPLING DATES (COMPOSITE) - Enter the start date and end date for the duration of the composite sampling.
B. SAMPLING TIME (COMPOSITE) - Enter the start time and end time for the duration of the composite sampling.
C. SAMPLING DATE/TIME (GRAB) - Enter the date and time the grab sample was collected.
D. SPLIT SAMPLE (Y/N) - Enter "Y=Yes" if the sample collected is a City split sample. Enter "N=No" if not.
E. PRE-NOTIFICATION DATE - Enter the date the City was pre-notified prior to planned sampling.
F SAMPLED BY - Enter the name of the person who collected the sample.
G. LABORATORY NAME - Enter the name of the laboratory who performed the analysis.
H. LABORATORY CERT. NO. - Enter the State Certificate Number of the laboratory who performed the analysis.

SECTION III : LABORATORY TEST RESULTS

A. GRAB SAMPLE DATE/TIME - Enter the same information reported in Section II.C of instruction above.
B. COMPOSITE DATE/TIME - Enter the same information reported in Section II.A and II.B of instruction above.
C. SAMPLE TYPE - Check (✓) whether a composite sample or grab sample was used to analyze the analyte.
D. LABORATORY RESULTS - Enter the result (concentration) of the laboratory analysis and their corresponding units (e.g., mg/l, ppm). **The laboratory report must be submitted along with the self-monitoring report.**
E. VIOLATION - Check (✓) if any of the analytes exceeded the discharge limit. Refer to the discharge limits in Section IV of these instructions or the permit for the analyte of concern.
F. SIGNATURE OF AUTHORIZED REPRESENTATIVE, ETC... - Self Explanatory

SECTION IV : FEDERAL AND LOCAL DISCHARGE LIMITS

A list of the federal and local discharge limits are attached as a guide for the industrial user to determine discharge violations as noted in Section III.E of instruction above. These pages need not be submitted.

SECTION V : CERTIFICATES/PRODUCTION DATA

These forms apply to an industrial user (IU) required to submit any of the following: 1) Cyanide Certification, 2) Zero Discharge Certification, 3) TTO Certification, and, 4) Production Data.

A. FROM (date) TO (date) - Enter the inclusive dates (monitoring period) on the form.
B. SIGNATURE OF AUTHORIZED REPRESENTATIVE, ETC.. - Self Explanatory
C. FOR PRODUCTION BASED IU ONLY - Enter the production data *during the monitoring period* including product description, quantity, and unit.

Revised SCL Permit Fact Sheet and Amendments

Permit Information – Application for upgrading from Local Industrial User to Significant Industrial User due to increased discharge capacity [Industrial User: IU128862; Replace Permit No. W-535428]

A. Industrial User Information

Republic Services Inc.
BFI Sunshine Canyon Landfill
14747 San Fernando Road,
Sylmar, CA 91342

Mr. Josh Mills – Environmental Manager
(818) 362-2124

B. Description of Facility Operations

Republic Services Inc. operates BFI Sunshine Canyon Landfill (SCL), a sanitary landfill in Sylmar, California, which receives and processes municipal waste brought in from the City, County and other sources. SCL currently holds an industrial sewer discharge permit No. W-535428.

The landfill generates various liquid streams at the site including mildly contaminated seep water, leachate, gas system condensate, and gas well liquids. The seep water consists of three different streams which include cutoff wall water, mildly contaminated seep water impacted by the landfill, and subdrain water. Treatment systems were previously installed to treat the cutoff water, seep water, subdrain water, and leachate streams; these streams may be treated for use on site for dust control and/or may be directly discharged to the sewer with or without treatment. The gas well liquids and gas system condensate flows do not undergo any pre-treatment and are discharged directly to the sewer and off-site to the POTW.

Figure 1 presents a facility plan of the Sunshine Canyon Landfill, showing the location of the optional on-site water reuse treatment. **Figure 2** presents a simplified schematic illustrating liquid routing to the sewer discharge and the as-needed addition of chlorine prior to direct discharge. **Figure 3** presents details on the optional on-site water reuse treatment systems.

C. Landfill Liquid Sources

The different liquid streams generated at the landfill are presented below.

Gas Well Liquids:

Gas well liquids are liquids pumped from the gas extraction wells in order to allow for removal of landfill gas (LFG) from the landfill. The gas condensate is collected at the low points in the gas collection system throughout the site and at the flare stations. The gas well liquids are stored in frac tank storage area and are pumped to the sewer lift station for direct sewer discharge.

Condensate:

Gas condensate is produced due to the temperature drop that takes place as the LFG is conveyed from the gas extraction wells to the flare stations for combustion. Condensate is pumped to the frac tank storage area and then pumped to the sewer lift station for direct sewer discharge.

Seep Water:

Spring (Seep) and underdrain water emerges and is collected throughout the landfill area. Seep water contains trace levels of VOCs. Seep Water sources may be treated in the on-site water reuse treatment systems or may be directly discharged. There are three types of Seep Water, each treated separately, as described below.

- City Seep Water: collected from gravity drains under the old city portion of the landfill.
- Cutoff Wall Water: subsurface water (groundwater) pumped from area near the front entrance of the site. This stream is similar in characteristics to the Seep Water.
- Subdrain Water: spring water collected underneath the County landfill, and conveyed by gravity to the front entrance area of the landfill.

Leachate:

The leachate is collected at the bottom of the lined disposal areas. Extraction pumps convey leachate streams to the treatment systems for on-site water reuse or directly to the direct sewer discharge.

D. Sample Point Description/Facility Flow Information

The sewer discharge connection from the Sunshine Canyon Landfill runs along San Fernando Road to a sewer manhole at the intersection of San Fernando Road and Balboa Avenue **(see Figure 3)**. The discharge system will include:

- Sample Point 01

- Inline Flow Meter/Totalizer

Figure 2 shows the proposed configuration and location of the sewer monitoring system including Sample Point 01. The description of the sewer sampling point and the discharge flow is listed below.

Industrial Wastewater Permit	Sample Point	Daily Flow (GPD)	Description
	01	300,000	Secured sampling station will be installed in accordance with IWD Requirements

E. Sewer Discharge System

The current sampling point will be moved to the magmeter vault which will be used for sampling and tracking of the total daily discharge to the sewer. As part of the daily responsibilities, the Operator will log the flow totalizer during discharge of wastewater to the sewer. If required by the City, additional treatment such as addition of chlorine will be added as necessary to meet direct discharge requirements. The current existing treatment is currently for on-site water reuse and not for discharge. Sanitary sewage is assumed to have standard sewer service.

F. Spill Control/Emergency Storage

All treatment systems are built in a secondary containment structure to contain any spills. The seep water streams, including field pumps, as well as the treatment systems for on-site water reuse operation will shut off in the event the Gray Water Transfer Tank (T-402) reaches high level and cannot accept any water. Under such conditions, there will be no input of water to the Gray Water System.

If the high level is a result of high level conditions in the Gray Water Storage Tanks, the Gray Water PLC will turn on the sewer discharge pumps and begin discharge of water to the sewer. Under such conditions or when high level alarm is experienced in the Gray Water System, the PLC will initiate a phone communication to alert site operators.

The frac tanks are located inside a containment structure with the conveyance line being double contained and discharging into the manhole near the lift station. If the high level in the lift station is triggered, the gas well liquid pumps will shut off. If the high high level alarm is experienced, the PLC will initiate a phone communication to alert site operators.

FIGURES

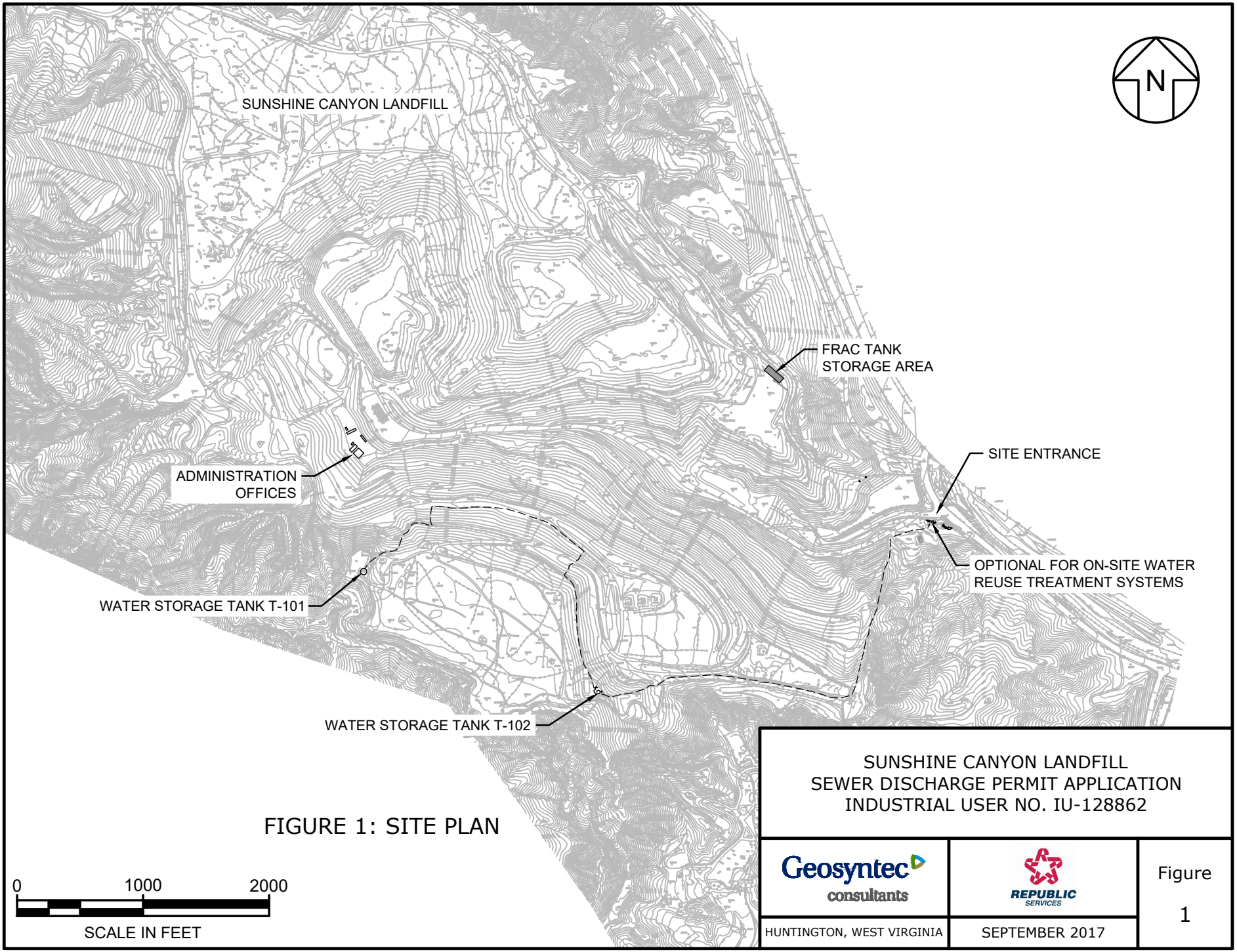


FIGURE 1: SITE PLAN

SUNSHINE CANYON LANDFILL
SEWER DISCHARGE PERMIT APPLICATION
INDUSTRIAL USER NO. IU-128862

Geosyntec consultants

REPUBLIC SERVICES

Figure 1

HUNTINGTON, WEST VIRGINIA

SEPTEMBER 2017

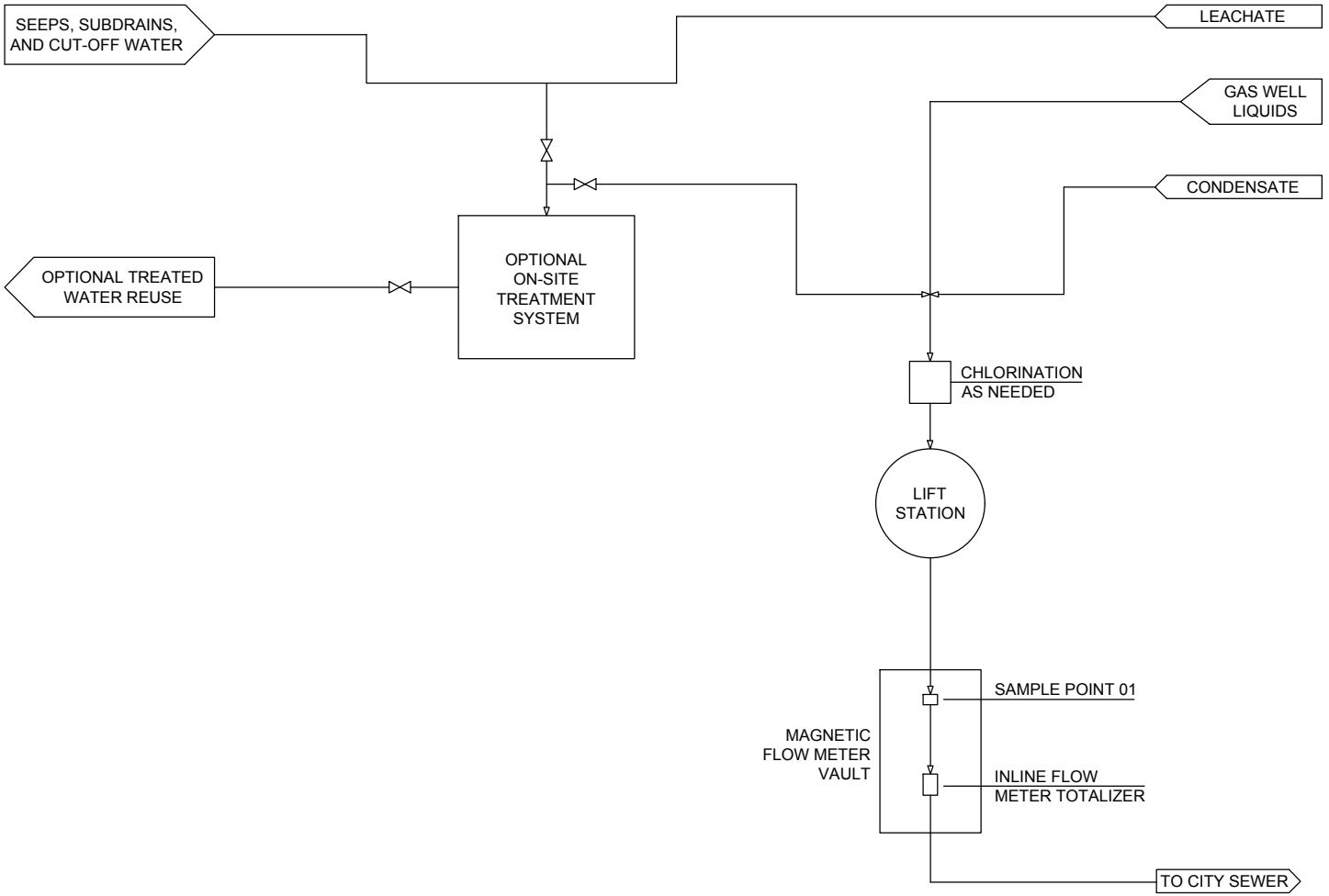


FIGURE 2: SITE LIQUIDS MANAGEMENT PLAN

SUNSHINE CANYON LANDFILL
SEWER DISCHARGE PERMIT APPLICATION
INDUSTRIAL USER NO. IU-128862

Geosyntec consultants

REPUBLIC SERVICES

Figure 2

HUNTINGTON, WEST VIRGINIA

SEPTEMBER 2017

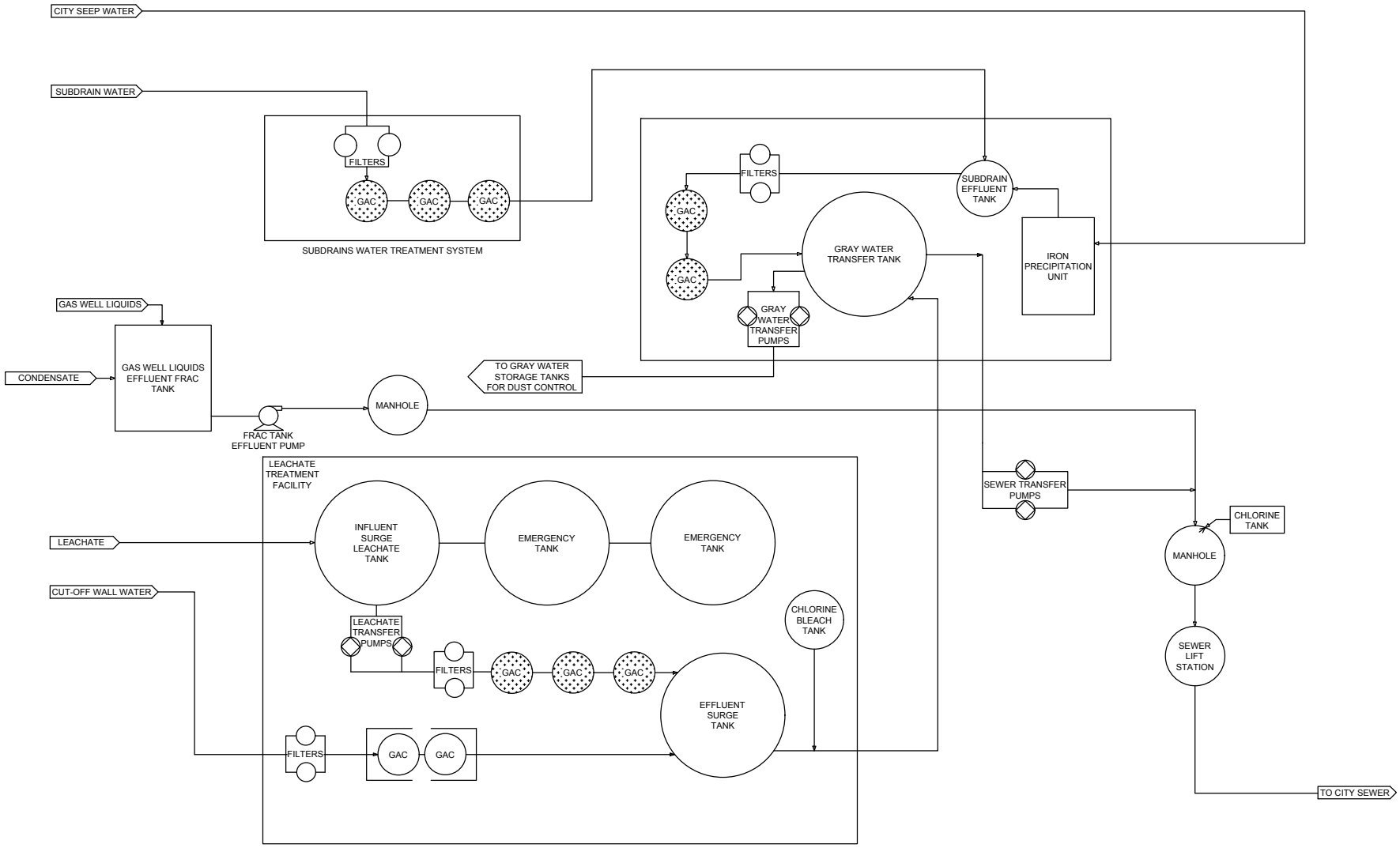


FIGURE 3: PROCESS FLOW SCHEMATIC FOR THE OPTIONAL ON-SITE WATER REUSE TREATMENT SYSTEMS

SUNSHINE CANYON LANDFILL
SEWER DISCHARGE PERMIT APPLICATION
INDUSTRIAL USER NO. IU-128862

Geosyntec consultants

REPUBLIC SERVICES

Figure 3

HUNTINGTON, WEST VIRGINIA

SEPTEMBER 2017

ATTACHMENT 1
SAFETY DATA SHEETS

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12.5% SODIUM HYPOCHLORITE SOLUTION

Material Safety Data Sheet

Emergency 24 Hour Telephone: CHEMTREC 800.424.9300

Corporate Headquarters: Hasa Inc.
23119 Drayton Street
Saugus, California 91350
Telephone • 661.259.5848
Fax • 661.259.1538



IDENTIFICATION OF PRODUCT	
Product Name:	HASA 12.5% Sodium Hypochlorite Solution
Common Chemical Names:	Hypochlorite solution sodium salt, sodium hypochlorite
Chemical Names of Ingredients [>1.0% by weight]:	Sodium hypochlorite
Chemical Family:	Inorganic halogen compound
CAS Registry Number:	7681-52-9
Empirical Formula:	NaOCl
Molecular Weight:	74.45

PHYSICAL AND CHEMICAL PROPERTIES			
Vapor Pressure:	12.1 mm Hg at 20ºC [12.5% solution]	**Flash Point:**	Not Applicable.
Weight/Gallon:	10.0 lbs. (4.54 kg.)	**pH:**	11.2 – 11.4
Density [liquid]:	1.20 at 20ºC (68ºF)	**Odor:**	Slight Bleach
Bulk Density:	Not Applicable.	**Boiling Point:**	Decomposes
Melting Point:	Not Applicable.	**Freezing Point:**	-20° Fahrenheit
Physical State:	Liquid Solution	**Color:**	Straw Yellow
Solubility in Water:	Complete	**Stability:**	Stable

PHYSICAL HAZARDS	
Potential for Fire:	None. Nonflammable and Noncombustible liquid.
Potential for Explosion:	None. Nonflammable and Noncombustible liquid.
Reactivity:	Violent reactions with amines, ammonium aldehyde, ammonium carbonate, aziridine, methanol, phenylacetonitrile, ammonium nitrate, ammonium oxylate, ammonium phosphate, cellulose, ethylene imine. Do not mix acids, aqua ammonia, or other organic or inorganic chemicals with this product.
Extinguishing Media	N/A
Fire Fighting Procedures:	N/A

HEALTH HAZARDS	
Signs and Symptoms of Exposure:	Eyes and skin irritation. Chemical burns to broken skin.
Medical Conditions Aggravated by Exposure:	No data available.
Oral [ingestion] LD_{50}:	No data available.
Dermal [skin absorption] LD_{50}:	No data available.
Inhalation [breathing] LC_{50}:	No data available.
Eye Irritation:	Irritating. May cause eye damage.
Skin Irritation:	Mild irritation. Not considered to be a skin sensitizer.
OSHA PEL:	None established.
ACGIH TLV/TWA:	None established.

POTENTIAL ROUTE [S] OF ENTRY	
Inhalation [Breathing]:	Unlikely to occur. Vapor may cause irritation to upper respiratory tract.
Dermal [Skin]:	Contact with broken skin may cause burning, blistering, and tissue destruction if not washed off immediately.
Eyes:	Corrosive to eyes.
Ingestion:	Not anticipated. May cause severe chemical burns to esophagus and to stomach lining.

CARCINOGENIC [CANCER POTENTIAL] INFORMATION	
National Toxicological Program [NTP] ***Sixth Annual Report on Carcinogens:***	Not listed.
International Agency for Research on Cancer [IARC] Monographs**, V. 1-53, Supps. 1-8:**	Not listed.
Listed by Federal OSHA as Carcinogens:	Not listed.

Safe Drinking Water and Toxic Enforcement Act of 1986 **[Proposition 65, California only]:**

Small quantities – less than 100 ppm (parts per million) – of impurities, including bromates, may be found in all chlorinating products, including this product. Bromates are derived from bromides, which are present in sodium chloride (table salt) from which chlorine is manufactured. Additional small quantities of bromates may be generated during the disinfection process. Bromates are known by the State of California to cause cancer when administered by the oral (drinking or ingesting) route. Read and follow label directions and use care when handling or using this product. The US Environmental Protection Agency has established a maximum contaminant level (MCL) for bromates in drinking water at 10 ppb (parts per billion). Application of this product in accordance with label directions at use dilution will not exceed this level.

This warning is provided pursuant to Proposition 65, the Safe Drinking Water and Toxic Enforcement act of 1986, Chapter 6.6 of the California Health and Safety Code, which requires the Governor of California to publish a list of chemicals “known to the state to cause cancer or reproductive toxicity.” This list is compiled in accordance with the procedures established under the proposition, and can be obtained on the internet from California’s Office of Environmental Health Hazard Assessment at http://www.oehha.ca.gov. There are over 700 chemical substances on this list.

GENERAL PRECAUTIONS FOR SAFE USE AND HANDLING
Open containers carefully. Sodium hypochlorite solutions are packaged with vented closures. Do not use containers which are leaking or show evidence of having leaked. Mix only with water. Do not mix with other chemicals. Use clean, dry utensils when mixing. Do not discharge this product or mixtures of this product into lakes, streams, ponds, bays, estuaries, or the ocean. Sodium hypochlorite is toxic to aquatic organisms at very low levels.

PERSONAL PROTECTION AND HYGIENE
Wear goggles or face shield and rubber gloves when handling. Remove and wash contaminated clothing before reuse. Wash hands after handling.

CLEAN-UP OF SPILLS
Store this product in a cool, dry area, away from sunlight and heat to avoid deterioration. In case of spill, flood area where spill has occurred with large quantities of water. With permission from local authorities, diluted product may be flushed to a sanitary sewer. Product may also be absorbed with sand or diatomaceous earth. Absorbed products must be disposed of in accordance with applicable Federal, State, and/or local regulations. Contact HASA, Inc. for guidance.

FIRST AID	
Eye Contact:	Flush with water. Remove contact lenses [if applicable]. Hold eyelids open. Continue flushing with water for 15 minutes. Get prompt medical attention.
Skin Contact:	Wash affected area with water for 15 minutes. Get medical attention.
Ingestion [swallowing]:	Drink large quantities of water. DO NOT give vinegar or other acids. DO NOT induce vomiting. Get prompt medical attention.

FEDERAL/STATE LISTS/REGISTRATION/S/REPORTING REQUIREMENTS	
CERCLA Hazardous Substance [Section 1010 [4], P.L. 96-510]:	RQ=100 lbs [80 gallons for 12.5% solution]
Extremely Hazardous Substance [40 CFR 355, Appendix A]:	Not listed.
Pesticide Product 7 U.S.C. 136 et seq.:	Registered as a pesticide product by Federal EPA.
Toxic Substance under TSCA:	Not reported.
Pesticide Product [various State Laws]:	Registered as pesticide product in states where marked.

MATERIAL CLASSIFICATION	
OSHA Hazard Communication Standard, Department of Labor, Occupational Safety and Health Division, 29 CFR 1910.1200:	Irritant

Hazardous Materials Transportation Regulations, Department of Transportation (Federal) 49 CFR 172.101	
Proper Shipping Description [1 gallon or less]:	Consumer Commodity, ORM-D
Proper Shipping Description [greater than 1 gallon]:	Hypochlorite Solutions, 8, UN1791, P.G. III

National Fire Protection Association NFPA 704 [1990]:	2-0-0
BOCA National Fire Prevention Code/National Building Code [1999 editions]:	Irritant
Standard Fire Prevention Code/Standard Building Code [1997 editions]:	Irritant
Uniform Fire Code/Uniform Building Code [1997 editions]:	Irritant

Uniform Fire Code Standards 79-3, Uniform Fire Code, V. II [1997 edition]:	2-0-0

RETURNABLE CONTAINERS
Returnable (deposit) containers must be resealed and the contents drained therefrom prior to return to the distributor or manufacturer for credit. Do not offer leaking or damaged containers for transportation.Call HASA, Inc. or your distributor for instructions.

Please Note: The information contained herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge and belief. NO WARRANTY OR GUARANTEE, expressed or implied, is made regarding the product performance, product stability, or as to any other condition of use, handling, transportation, and storage. Customer use, handling, transportation, and storage may involve additional safety and/or performance considerations. Our technical personnel will be happy to respond to questions regarding safe handling, storage, transportation and use procedures. The safe handling, storage, transportation and use procedures remain the sole responsibility of the customer. No suggestions for handling, storage, transportation or use are intended as or to be construed as recommendations which may infringe on any existing patents or violate any Federal, State, and/or local law and/or regulation, ordinance, standard, etc.. This Material Safety Data Sheet has been prepared by HASA, Inc. staff from test reports and other information available in the public domain.

Material Safety Data Sheet

Product: Sodium Hydroxide 50%
Date of Preparation: 10/06

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Sodium Hydroxide 50%
Chemical Formula: A Blend of Water Treatment Application Materials
Emergency Telephone: 800-535-5053 (InfoTrac)
Manufacturer: Heisler Green Chemical Company
3051 Oak Grove Road,
Downers Grove, IL. 60515 **Non Emergency Tel. No.: 630-271-1218**

Section 2 - Composition/Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol	OSHA PEL TWA STEL	ACGIH TLV TWA STEL	Other
Sodium Hydroxide	1310732	50.0	2mg/m3		
Non Hazardous Ingredients		50.0			
TOTAL		100			

Section 3 - Hazards Identification

+ + + + Emergency Overview + + + +

HMIS	
H	3
F	0
R	1
PPE	J
+Sec.8	

Potential Health Effects

Primary Entry Routes: Eye Contact, Skin Contact.
Acute Effects: Corrosive to eyes, skin and mucous membranes
Inhalation: High mist concentrations can cause irritation of eyes, nose, throat and lungs. Corrosive mists.
May cause damage to the upper respiratory tract and even to the lung tissue proper that could produce chemical pneumonia, depending on the severity of exposure.
Eye: Major Potential Hazard. Destructive to eye tissue on contact. Will cause severe burns that result in damage to the eyes and even blindness.
Skin: Major Potential Hazard. Destructive to tissues contacted, producing severe burns and temporary loss of hair.
Ingestion: Can cause severe burns and complete perforation of mucous membranes of the mouth, throat, esophagus and stomach if swallowed. Can prove fatal.
Carcinogenesis: IARC, NTP, and OSHA do not list this product or its components as a carcinogen.
Medical Conditions Aggravated by Long-term Exposure: No specific information provided on compounds at date of issue.
Chronic Effects: May cause multiple areas of superficial destruction of the skin or dermatitis.

Section 4 - First Aid Measures

Inhalation: Remove person out of contaminated area to fresh air. If breathing has stopped artificial respiration should be started. Oxygen may be administered if readily available. Seek medical attention immediately.
Eye Contact: Flush eyes with a large amount of water for 15 minutes. Seek medical attention IMMEDIATELY. After first aid, get appropriate in-plant, paramedic or community medical support.
Skin Contact: Wash affected areas thoroughly with soap and water for at least 15 minutes. Seek medical attention if any irritation persists.
Ingestion: If swallowed, give large quantities of water to drink. If available give several glasses of milk. DO NOT induce vomiting. After first aid, IMMEDIATELY seek appropriate in-plant, paramedic, or community medical support. Never give anything by mouth to an unconscious person.

Section 5 - Fire-Fighting Measures

Flash Point: Non-Flammable
Flash Point Method: NA
Burning Rate: NA
Auto-ignition Temperature: Does not burn.
LEL: NIA
UEL: NIA
Extinguishing Media: Water fog, Alcohol foam, Carbon Dioxide, Dry Chemical
Unusual Fire or Explosion Hazards: None known other than material can splatter above 100°C/120°F.
Hazardous Combustion Products: Carbon Monoxide might be released
Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.
Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill/Leak Procedures:
Small Spills: Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water.
Large Spills:
Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb spill with vermiculite, oil dry or similar non-reactant absorbent.
Cleanup: Accumulate the absorbed materials and dispose of according to federal, state and local regulations.
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120)

Section 7 - Handling and Storage

Handling Precautions: Use the recommended safety controls and personal protective equipment as outlined. Fully review all data before handling of the material itself. Avoid contact with skin or eyes. Avoid breathing dust or mist. Keep from contact with clothing and other combustible materials. Observe good personal hygiene and housekeeping practices.
Storage Requirements: Do not store this material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the material to temperature extremes.
Regulatory Requirements: Store materials according to all local, state and federal guidelines that are established for corrosive materials.

Section 8 - Exposure Controls/Personal Protection

Engineering Controls:
Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
Administrative Controls:
Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.
Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.
Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.
Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section – 9 Physical and Chemical Properties

Physical State: Liquid
Appearance and Odor: Clear to hazy liquid, characteristic odor
Vapor Pressure: Same as water
Vapor Density (Air=1): Same as water
Specific Gravity (H_2O=1, at 4°C): 1.52
pH: 14+/-
Water Solubility: Complete
Other Solubilities: ND
Boiling Point: 212F
Freezing/Melting Point: +/- 32 F
% Volatile: 50%+/-
Evaporation Rate: <1.00

Section 10 - Stability and Reactivity

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions. However, avoid temperature extremes.
Polymerization: Hazardous polymerization will not occur.
Chemical Incompatibilities: Strong Acids, Leather, Wool, Aluminum, Zinc, Tin and alloys, Oxidizers or any other type of reactive material.
Conditions to Avoid: Contact with any reactive material of any sort. Extreme temperatures
Hazardous Decomposition Products: Reacts with reducing sugars to form hazardous carbon monoxide. Contact with metals may release flammable hydrogen gas.

Section 11 - Toxicological Information

Eye Effects: Corrosive
Acute Inhalation Effects: Corrosive
Skin Effects: Corrosive
Acute Oral Effects: Corrosive to mucous membranes
Chronic Effects: Not determined for this specific blend
Carcinogenesis: Non Carcinogenic
Mutagenicity: Non Mutagenetic
Teratogenicity: Not determined for the blend
**See NIOSH, RTECS, for additional toxicity data.

Section 12 - Ecological Information

Eco-toxicity: No specific data is available on this product. However, for the chemical components which make up this product, there may be specific data available and in the public domain. Consult the data available for each individual raw material component.
Environmental Fate: Ground and/or water
Environmental Degradation: NIA
Soil Absorption/Mobility: No studies have been conducted for this blend

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state and local regulations.
Disposal Regulatory Requirements:
Container Cleaning and Disposal: Triple rinse the empty containers with water before disposal to re-conditioner or land fill or garbage.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Sodium Hyrdroxide
Contains:
Shipping Symbols:
Hazard Class: 8
UN No.: 1824
Packing Group: II
Requirements
Label Code: C
Emergency Response Guide No: 154

Packaging Authorizations
a) Exceptions:
b) Non-bulk Packaging:
C) Bulk Packaging

Quantity Limitations
a) Passenger, Aircraft or Railcar:
b) Cargo Aircraft Only:

Vessel Stowage

a) Vessel Stowage:
b) Other:

Section 15 - Regulatory Information

EPA Regulations:
RCRA Hazardous Waste Number (40 CFR 261.33):
RCRA Hazardous Waste Classification (40 CFR 261.): Not classified.
CERCLA Hazardous Substance (40 CFR 302.4) listed/unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307 (a), CAA, Sec. 112
CERCLA Reportable Quantity (RQ), lb(kg) Not listed

SARA 311/312 Codes:
SARA 313 Toxic Chemical (40CFR 372.65): Not listed
SARA 302/304 EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed
Threshold Planning Quantity (TPQ)
OSHA Regulations:
Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A) See Section 2
OSHA Specifically Regulated Substance (29 CFR 1910.) See Section 2
State Regulations: As a product blend the materials are generally not listed. Check with your local state regulatory board for more detailed information regarding the specific components of this product.

Section 16 - Other Information

Prepared By: G. Garcia,
Revision Notes:

Additional Hazard Rating Systems:
Disclaimer:

USER'S RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.

ATTACHMENT 2
SPCC PLAN

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SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN (SPCC PLAN)

FOR

SUNSHINE CANYON LANDFILL

14747 San Fernando Road
Sylmar, CA 91342

August 2017

SPILL PREVENTION CONTROL & COUNTERMEASURE PLAN
GENERAL INFORMATION

1. Name of Facility Sunshine Canyon Landfill

2. Type of Facility Municipal Solid Waste Landfill

3. Location of Facility 14747 San Fernando Road, Sylmar, CA 91342

4. Name and address of Owner or Operator:

Name: Sunshine Canyon Landfill, a Republic Services Company

Address: 14747 San Fernando Road, Sylmar, CA 91342

5. Designated Person Accountable For Oil Spill Prevention at Facility (SPCC Coordinator):

Name: Kate Logan

Title: Interim Operations Manager

MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.

Signature:

Name: Rob Sherman

Title: General Manager

PERIODIC PLAN REVIEW

In accordance with 40 CFR 112.5(b), a review and evaluation of this SPCC Plan is conducted at least once every five years. As a result of this review and evaluation, Sunshine Canyon Landfill will amend the SPCC Plan within six months of the review to include more effective prevention and spill technology if: (1) such technology will significantly reduce the likelihood of a spill event from the facility, and (2) if such technology has been field-proven at the time of review. Any amendment to the SPCC Plan shall be certified by a Professional Engineer within six months after a change in the facility design, construction, operation or maintenance occurs which materially affects the facility's potential for the discharge of oil into or upon the navigable waters of the United States or adjoining shorelines.

Review Date	Signature of Reviewer

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN (SPCC PLAN)

FOR

SUNSHINE CANYON LANDFILL

14747 San Fernando Road
Sylmar, CA 91342

April 2013

PREPARED BY

A-MEHR, INC.
23016 MILL CREEK DRIVE
LAGUNA HILLS, CA 93016
(949) 206-0157

CERTIFICATION

I hereby certify that I have examined the facility, and being familiar with the provisions of 40 CFR, Part 112, attest that this SPCC Plan has been prepared in accordance with good engineering practices.

Printed Name of Registered Professional Engineer : M. Ali Mehrazarin, P.E.

Signature of Registered Professional Engineer: M. Ali Mej

Registration No. 42575
State: California

Seal



Date: 4/24/13

EMERGENCY CONTACTS

A. SPCC COORDINATOR

Kate Logan	**(817) 846-9023**

B. ASSISTANT SPCC COORDINATOR

Ricky Dhupar	**(818) 822-2024**

C. GENERAL MANAGER

Chris Coyle	**(623) 241-8418**

D. LOS ANGELES FIRE DEPARTMENT **911**

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Drawing

Drawing 1 Site Plan and Storage Map

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Table 2 Spill, Fire and Safety Equipment

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Appendix A Sample Monthly Inspection Form
Appendix B Sample Personnel Training Record
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OIL SPILL PREVENTION, CONTROL AND COUNTERMEASURE (SPCC) PLAN SUNSHINE CANYON LANDFILL

1. INTRODUCTION

This SPCC Plan has been prepared, in accordance with Republic Services, Inc. policies and 40 CFR 112.7, for Sunshine Canyon Landfill in Los Angeles County, California to address the storage and management of petroleum products. The plan describes procedures, structures, and equipment at the facility to prevent spills and to prevent or mitigate any impact on the environment.

2. FACILITY DESCRIPTION

2.1 General

The Sunshine Canyon Landfill is a municipal solid waste disposal site located on a 1,036-acre parcel of land in Los Angeles County.

Potential petroleum products spill hazards at Sunshine Canyon Landfill are related to storage and use of fuels and lubricants required for the operation of heavy equipment. The site stores and/or uses petroleum products in the form of diesel fuel, motor oils, waste oil, gear oil, and hydraulic oil. Provisions for prevention of spills of the landfill liquids are documented in this SPCC Plan, although the management of such liquids is not mandated under 40 CFR 112.7.

Drawing 1 is an overall site plan and a detailed plan of the industrial and maintenance areas of the site, showing the location of the storage tanks and related facilities.

2.2 Petroleum Products Storage Tanks

Table 1 lists the storage tanks at Sunshine Canyon Landfill. All are aboveground storage tanks (AST). Additional information on the tanks is as follows:

Tank No. 1 is an unused 1,000-gallon double-walled AST stored in the boneyard. This tank is empty and is not permitted for use at the present time.

Tanks 2-6 are double-walled steel AST's located in the landfill equipment maintenance area, containing waste oil and various lubricant products. These tanks are located under a canopy alongside the maintenance shop.

In addition to the petroleum products stored in the tanks listed in Table 1, bulk tanks and smaller quantities of lubricants and related products are stored and used in several places in the maintenance area. Small quantity containers are kept in storage bins, and drums are placed on containment pallets in covered locations.

Landfill heavy equipment is fueled on the landfill by a mobile service truck.

TABLE 1
STORAGE TANK INVENTORY

NO.	TYPE	PRODUCT	TANK MATERIAL	CONTAIN-MENT	CAPACITY (gal.)	LOCATION
1	AST	Empty – Not Used	Steel tank, concrete vault	Double Walled	1,000	Maintenance Area
2	AST	Trans Oil	Steel	Double Walled	480	Maintenance Area
3	AST	Motor Oil	Steel	Double Walled	480	Maintenance Area
4	AST	Gear/ Differential Oil	Steel	Double Walled	480	Maintenance Area
5	AST	Drive train fluid; Hydraulic Oil	Steel	Double Walled	Split tank; 2 @ 240	Maintenance Area
6	AST	Waste Oil	Steel	Double Walled	500	Maintenance Area
7	AST	Waste Oil	Steel	Double Walled	200	Maintenance Area

2.3 Hazardous Waste Temporary Storage

Hazardous or other unacceptable waste discovered at the landfill is stored temporarily in a locked storage container. Secondary containment is provided within the container. Materials are typically stored in this location for less than 90 days before being removed by a licensed contractor from the site for disposal at a licensed hazardous waste facility.

2.4 Regulatory Applicability

2.4.1 Navigable Waters

Stormwater runoff from Sunshine Canyon Landfill is controlled by a series of permanent and temporary drainage structures. All stormwater is conveyed to the site's Terminal Basin. Stormwater discharges through three inlet structures then to a concrete box channel underneath San Fernando Road into the Weldon Creek Flood Control Channel which is part of the City of Los Angeles flood control system. This channel ultimately flows to the Los Angeles River. The Los Angeles River is considered navigable waters of the United States for purposes of 40 CFR 112.

2.4.2 Oil Storage

Sunshine Canyon Landfill is required to prepare an SPCC plan under 40 CFR 112.1 et. seq. because its total above ground storage capacity is greater than 1,320 gallons of petroleum products. (40 CFR 112.1 (d)(2)).

3. SPILL HISTORY AND POTENTIAL

3.1 Past Spill Occurrences - 112.7(a)

The only known spill events at Sunshine Canyon Landfill in the last 5 years have been minor spills related to hydraulic line breaks, and fuel line or fuel tank leaks on landfill equipment or customer

vehicles. These spills have been cleaned up immediately in accordance with with the procedures in this plan. Procedures for prevention of such occurrences are contained herein.

3.2 Potential Spill Occurrences - 112.7(b)

Although it is unlikely that a major spill event would occur at the facility, small spills may occur due to tank overflows and pipe or pump leaks. In the event of containment failure, on site adsorbents, shovels, and "absorbent snakes" are located in at the maintenance shop and spotter bins and are used to prevent spills from leaving the property. Should any significant release of diesel fuel occur during transfers or equipment fueling, the flow from the release would not drain into the storm water drainage system.

4. SPILL PREVENTION MEASURES

4.1 Containment and Diversionary Structures - 112.7(c)

As noted above, all AST's handling petroleum products on the site are of double walled construction, providing control of any major leak in the primary container. Other AST's are located inside containment structures, as detailed in Section 4.3 below.

4.2 Facility Drainage Control – 112(e)(1)

Stormwater runoff from Sunshine Canyon Landfill is controlled by a series of permanent and temporary drainage structures. All stormwater is conveyed to the site's Terminal Basin. Stormwater discharges through three inlet structures then to a concrete box channel underneath San Fernando Road into the Weldon Creek Flood Control Channel which is part of the City of Los Angeles flood control system.

4.3 Bulk Storage Tanks / Secondary Containment – 112.7(e)

4.3.1 Materials of Construction – 12.7(e)(2)(I)

Materials of construction of each storage tank are listed in Table 1. To date, the tanks have exhibited no significant corrosion or deterioration.

4.3.2 Capacity And Impermeability Of Secondary Containment - 112.7(e)(2)(ii); 112.7(e)(2)(iii)(B)

All tanks on site are of double walled construction, providing integral secondary containment.

4.3.3 Testing Of Aboveground Tanks - 112.7(e)(2)(vi)

All above ground tanks are visually inspected daily to assess tank integrity. These inspections are documented as described in Section 4.6. Areas inspected include the following, if applicable:

- Leak and spills
- Corrosion deterioration
- Foundation deterioration
- Tank auxiliary equipment (valve, piping and pumps)
- Secondary containment structure

4.3.4 Fail-Safe Engineering For Tank Installation - 112.7(e)(2)(viii)

All tanks on site are of double walled construction, providing integral secondary containment.

4.3.5 Plant Effluent Discharged Into Navigable Waters - 112.7(e)(2)(ix)

The facility produces no plant effluent.

4.3.6 Correction Of Visible Leaks - 112.7(e)(2)(x)

As cited above, the AST's are regularly inspected visually to determine integrity and assess condition of operating equipment. Steps will be immediately taken to correct any visible leaks.

4.3.7 Mobile/Portable Oil Storage Tanks - 112.7(e)(2)(xi)

Motor oils, gear lube, transmission and hydraulic fluids are stored in 55-gallon drums located in the maintenance area, as described in Sections 2.2 and 4.1 above. Most drums are kept on portable containment pallets. The site maintains an adequate supply of absorbents on hand to provide additional containment for spills.

4.4 Facility Transfer Operations, Pumping, And In-Plant Process - 112.7(E) (3)

4.4.1 Buried Piping - 112.7(e)(3)(I)

There is no buried piping conveying petroleum liquids on site.

4.4.2 Inspection of Above-Ground Valves and Pipelines - 112.7(e)(3)(iv)

All exposed valves/hoses units associated with AST's are regularly inspected for leaks as part of the inspection program described in Section 4.6 below.

4.4.3 Vehicular Traffic - 112.7(e)(3)(v)

There are no above ground pipelines exposed to vehicular traffic.

4.5 Facility Truck Loading/Unloading - 112.7(e)(4)

4.5.1 Tank Truck Loading Procedures - 112.7(e)(4)(I)

All loading and unloading procedures meet the minimum requirements and regulations of the Department of Transportation. Site personnel involved with loading and unloading operations will familiarize themselves with these requirements.

4.5.2 Interlocked Warning System - 112.7(e)(4)(iii)

(Not applicable)

4.5.3 Examination of Tank Truck Drains - 112.7 (e)(4)(iv)

(Not applicable)

4.5.4 Procedures for Fueling Vehicles and Equipment

The following procedures are followed when transferring diesel fuel to vehicles or landfill operating equipment via a mobile service truck.

The following spill cleanup equipment shall be on hand at the location of fueling:

a) A drip bucket/pan.
b) Two watertight covered containers, one labeled 'Clean Absorbent' and the other 'Used Absorbent'.
c) A supply of clean, dry absorbent.
d) A shovel.
e) A yard brush.

The fueling operation shall observe the following precautions and procedures:

a) The fueler must hold the nozzle while filling the vehicle.
b) The fueler must not overfill the tank.
c) The fueler must not keep the nozzle open using a device or method other than his/her hand.
d) The fueler must place the drip pan/bucket on the ground beneath the vehicle fill opening to catch any overfill. Any overfill must be replaced immediately in the fuel storage tank.
e) If a spill of less than 25 gallon occurs, the fueler must immediately place absorbent on the spilled fuel, and immediately pick up the absorbed material with a sweeping brush and shovel, and place it in the 'Used Absorbent' receptacle
f) The 'Clean Absorbent' and 'Used Absorbent' storage containers must be protected from rain at all times.
g) Used absorbent must be disposed of in accordance with State and Federal regulations.
h) The fuel pad must be dry cleaned (sweep and shovel - absolutely no water) at the end of every workday.
i) The shovel, yard brush, and drip pan/bucket must always be kept in the vicinity of the fueling activities.
j) The drip pan/bucket must be stored up-side down when not in use.
k) If a spill of 25 gallons or more occurs, take immediate steps to contain the spill, get help, and make sure the incident is reported to the SPCC Coordinator.

4.6 Inspection And Records - 112.7(e)(8)

This inspection program plan is intended to provide a system to prevent and detect system malfunctions, equipment deterioration, and operator errors. The inspection program is designed to provide an early warning of the potential for such events in order that corrective and preventive actions may be taken in a timely manner.

4.7 Inspection Program Administration

The Environmental Managers and the Division Manager are assigned responsibility to detect any unsafe conditions at the facility and prevent adverse consequences. These individuals have the authority to : (1) implement the required inspections, (2) perform necessary evaluations and hazard assessments, and (3) recommend appropriate corrective or remedial actions.

The level of response to a problem and its timing is determined by the nature and seriousness of the problem identified with protection of personnel and the prevention of adverse environmental impact

being of paramount concern. The Division Manager and the Environmental Manager are responsible for directing any remedial and corrective measures that may be required.

The inspection is performed according to a schedule based on operational knowledge and experience with the systems and processes involved. Each inspection item has the content and frequency necessary to alert facility personnel prior to development of a serious problem.

4.8 Documentation and Record Keeping

Inspections (and re-inspection) are documented on a monthly inspection form contained in Appendix A. The Environmental Manager is responsible for planning and implementing any required remedial actions. Records of any remedial actions are kept in the site's records.

All completed forms and attachments are filed in the facility's operating records. These are retained on site for a minimum period of three years from the date of the inspection

4.8.1 Monthly Facility Inspection

Potential spill sources and spill prevention facilities are inspected on a monthly basis as part of the site's overall monthly facility inspection, with results recorded on a monthly inspection form similar to the form located in Appendix A. The following inspection items are most applicable to the SPCC Program:

a. Aboveground Storage Tanks: Inspection will include aboveground foundation and tank structural supports. The outside of the tanks will be observed for signs of deterioration; leaks from seams, rivets, bolts, and gaskets; and accumulation of oil or hazardous substances inside containment structures. Liquid levels will be checked to verify the tanks have not been overfilled. Aboveground tanks may need to be subjected to periodic integrity testing.

b. Aboveground Piping. All aboveground valves and piping will be examined for general condition of items such as supports, flange joints, expansion joints, valve glands and bodies, and drip pans. Periodic pressure or other non-destructive integrity testing may be warranted for piping where facility drainage is such that a failure might lead to a spill event.

c. Containment Structures. Containment walls and berms will be inspected for accumulation of oil or hazardous substances and the source determined. Periodic visual inspections will be performed to ensure the integrity of containment walls and earthen berms.

d. Drum Storage Areas. Areas where lubricants or temporarily stored hazardous wastes are stored will be inspected for evidence of leaks, corrosion or damage. Proper labeling and storage practices will be verified.

4.9 Security - 112.7(e)(9)

4.9.1 Access Control - 112.7(e)(9)(i)

Access to the facility is controlled by a chain link fence or impassible terrain. Vehicular access in and out of the facility is controlled at the entrance gate.

4.9.2 Flow Drains and Valves - 112.7(e)(9)(ii)

There are no flow drains or valves on tanks located at this facility.

4.9.3 Facility Lighting - 112.7(e)(9)(v)

Fuel handling operations are conducted only during daylight hours, or under mobile lighting plants in event of an emergency. Adequate lighting is provided in the administrative area.

4.10 Personnel Training And Spill Prevention Procedures - 112.7(e)(10)

4.10.1 Personnel Training - 112.7(e)(10)(i)

Facility Personnel

a. Facility personnel will participate in annual training that teaches them to perform their duties in a way to prevent the discharge of harmful quantities of oil or hazardous substances. This training will include familiarization with material safety data sheets appropriate to the job assignment and emergency response procedures, and equipment.

b. Facility personnel will be instructed annually on their responsibilities for compliance with the requirements of the spill laws and emergency response regulations applicable to the facility.

c. Accurate records will be maintained of all spill prevention and emergency response training. All personnel training will be recorded on a form similar to the one located in Appendix B.

Tank Truck Drivers

Tank truck drivers loading or unloading materials at the facility shall adhere to the following guidelines:

a. Remain with the vehicle at all times while loading/unloading;

b. Drain the loading/unloading lines to the storage tank and close the drain valves before disconnecting said lines and make sure a drain pan or other appropriate containment device is located under all connections;

c. Inspect the vehicle before departure to be sure all loading/unloading lines have been disconnected and all drain and vent valves are closed; and immediately report any leakage or spillage, including quantity, to the SPCC Coordinator.

4.10.2 SPCC Coordinator - 112.7(e)(10)(ii)

The SPCC Coordinator designated on page (i) of this Plan is responsible for spill prevention and control, training of other personnel and also for response to any site emergency and for reporting emergencies to the appropriate authorities.

4.11 Spill Prevention and Response Briefings - 112.7(e)(10)(iii)

Appropriate facility personnel will be trained annually in spill and emergency response procedures. This training includes reporting, stopping, containing, cleaning up, and disposing of all spill materials, emergency communications, etc. The facility uses environmental self-assessments, monthly safety meetings and monthly inspections as a forum to assure adequate understanding of SPCC procedures by all employees.

5. EMERGENCY PROCEDURES / SPILL RESPONSE

5.1 General

The following sections describe procedures to be followed in the event of a spill or release of a petroleum product or other liquid addressed in the SPCC plan. Hazardous chemical spills are not covered under this plan and are handled per a separate Emergency Response Plan.

USEPA regulations define a spill event as the discharge of oil into, or upon, the navigable waters of the United States or adjoining shorelines, in harmful quantities. Harmful quantities are defined as a discharge that violates applicable water quality standards or causes a sheen upon, or discoloration of, the surface of the water or the adjoining shorelines. Contaminated ground water may also have the potential to seep, leach, or flow into navigable water that would be included in this definition. Storm sewers are considered to fall under the definition of a "navigable waterway" since most storm sewers discharge into a navigable waterway.

An important facet of an effective response procedure during an oil or substance release incident is to keep the material separated from water to minimize migration and the resulting potential increase in human and environmental exposure. Every effort should be made to prevent spills and emphasize substance containment at the source rather than resort to separation of the material from expanded portions of the environment or downstream waters.

5.2 Discovery of a Release

The person discovering a release of material from a container, tank, or operating equipment should initiate certain actions immediately.

- Extinguish any sources of ignition. Until the material is identified as nonflammable and noncombustible, all potential sources of ignition in the area will be removed. Vehicles will be turned off. If the ignition source is stationary, an attempt will be made to move spilled material away from the ignition source. Movement that could potentially create static electricity will be avoided.

- Attempt to stop the release at its source. **Assure that no danger to human health exists first**. Simple procedures (turning valves, plugging leaks, etc.) may be attempted by the discoverer if there is no health or safety hazard and there is a reasonable certainty of the origin of the leak. All efforts to control leaks must be under the supervision of the SPCC Coordinator or Assistance SPCC Coordinator. (This policy applies to the handling of petroleum-based products as described in this Plan. No Site personnel shall come into contact with unknown or hazardous substances illegally brought into the facility.)

- Initiate spill notification and reporting procedures. Report the incident immediately to the Supervisor and the SPCC Coordinator. If there is an immediate threat to human life (e.g. a fire in progress or fumes overcoming workers), an immediate alarm should be sounded to evacuate the building, and the fire department should be called. Request the assistance of the fire department's hazardous materials response team if an uncontrollable spill has occurred and/or if the spill has migrated beyond the site boundaries (see Section 6.2).

5.3 Containment of a Release

Most of the materials at the facility can be safely contained within secondary containment structures if a release occurs. However, if material is released outside the containment areas, it is critical that the material is accurately identified and appropriate control measures are taken in the safest possible manner. SDSs for petroleum products used at the facility are kept on file in the administrative office and maintenance shop and will be reviewed if a release outside of a containment area occurs.

a. Attempt to stop the release at the source. If the source of the release has not been found; if special protective equipment is necessary to approach the release area; or if assistance is required to stop the release, the fire department will be called to halt the discharge at its source. Facility personnel will be available to guide the fire department's efforts.

b. Contain the material released into the environment. Following proper safety procedures, the spill will be contained by absorbent materials and dikes using shovels and brooms. Applicable SDSs for material compatibility, safety, and environmental precautions will be reviewed.

c. Continue the notification procedure. Inform the SPCC Coordinator of the release (the Coordinator shall perform immediate notification as appropriate). Outside contractors will be hired to clean up the spill, if necessary.

5.4 Spill Cleanup

Appropriate personal protective equipment and clean-up procedures can be found in safety data sheets. Care must be taken when cleaning up spills in order to minimize the generation of waste. The Environmental Manager can provide assistance for the issues discussed below.

a. Recover or clean up the material spilled - As much material as possible should be recovered and reused where appropriate. Material that cannot be reused must be declared waste. Liquids absorbed by solid materials shall be shoveled into open top, 55-gallon drums; or if the size of the spill warrants, into a roll-off container(s). When drums are filled after a cleanup, the drum lids shall be secured and the drums shall be appropriately labeled (or re-labeled) identifying the substance(s), the date of the spill/cleanup, and the facility name and location. Combining non-compatible materials can cause potentially dangerous chemical and/or physical reactions or may severely limit disposal options. Compatibility information can be found in safety data sheets.

b. Cleanup of the spill area - Surfaces that are contaminated by the release shall be cleaned by the use of an appropriate substance or water. Cleanup water must be minimized, contained and properly disposed. Occasionally, porous materials (such as wood, soil, or oil-dry) may be contaminated; such materials will require special handling for disposal.

c. Decontaminate tools and equipment used in cleanup - Even if dedicated to cleanup efforts, tools and equipment that have been used must be decontaminated before replacing them in the spill control kit.

5.5 Post-Cleanup Procedures

a. Notification and reports to outside agencies. - The SPCC Coordinator shall determine if a reportable spill has occurred (See Sections 5.1 and 6.2). Verbal notifications to

government agencies and emergency planning committees shall be executed, if necessary. In all cases where verbal notification is given, a confirming written report shall be sent to the same entity.

b. Arrange for proper disposal of any waste materials. - The waste material from the cleanup must be characterized per the State and Federal Regulations. Representative sampling and analysis may be necessary to make this determination. In any case, the SPCC Coordinator shall assure that the waste is transported and disposed of in compliance with applicable laws and regulations. When manifests are needed, the SPCC Coordinator shall see that they are prepared and, when appropriate, returned in the allotted time by the disposal site.

c. Review the contingency and spill plans. - Management and operating personnel shall review spill response efforts, notification procedures, and cleanup equipment usage to evaluate their adequacy during the episode. Where deficiencies are found, the plan shall be revised and amended.

5.6 Internal Report

Spills that are regulated per this plan must be documented using the Log of Special Occurrence (Appendix C). The SPCC Coordinator , a site Environmental Manager or Environmental Specialist, shall prepare the report. At a minimum, the report will document the following items:

a. Date, time, and duration of release.
b. Source and total volume of the release.
c. Spill cleanup procedures.
d. Personnel who discovered and/or participated in the spill remediation.
e. Equipment used during the cleanup.
f. Waste disposal method.
g. Unusual events, injuries, or agency inspections.

5.7 Communications

In case of a fire, spill, or other emergency, paging systems and two-way radios can be used to contact personnel. Telephones are available at the landfill office; cellular phones are also available at the facility.

5.8 Spill, Fire, and Safety Equipment

Portable fire extinguishers are located throughout the facility, are well marked, and are easily accessible. Records are kept on all fire equipment in service and regular testing is performed in accordance with established procedures. Table 2 lists the fire extinguishers, spill, and safety equipment located on site.

Spill control equipment is kept primarily at the maintenance facility. Supplies of absorbent should be kept in the hazardous materials storage bin and any bins used for storage of petroleum products.

TABLE 2

SPILL, FIRE AND SAFETY EQUIPMENT

Purpose	Equipment	Location
Fire Protection	Fire Extinguishers	Each building – See Drawing 1 Landfill heavy equipment Landfill operations water truck
Spill Control / Containment	Disposal drum Oil Dry (or equivalent absorbent) Sorbent socks Shovels Brooms Drain pans	Maintenance Area
Safety Equipment	First Aid Kits Eyewash Stations Showers Portable radios & phones	Each building – See Drawing 1 Leachate treatment plant and maintenance area Locker rooms in break room (Bldg. C) All key personnel

6. IMMEDIATE REPORTING PROCEDURES/EMERGENCY CONTACTS

In the event of an accident or spill at the facility, the manager with direct responsibility for the day-to-day operation of the facility will contact the individuals listed below as soon as practical after the incident has occurred. Contact preference is in the order listed. If spill discharge to surface waters is imminent, the regulatory emergency agencies will be notified of the potential immediately as described below.

6.1 Internal Reporting

In the event of a spill on dry land or in on-site surface water drainage that is contained and recovered, the Local Enforcement Agency (LEA) will be notified as well as the following internal contacts shall be made:

Internal Call List

Name	Position	Office Phone	Pager / Cell
Kate Logan	Interim Operations Manager	(623) 241-8436	(817) 846-9023
Patti Costa	Environmental Manager	(818) 362-2075	(818) 822-2177
Chris Coyle	General Manager	(623) 241-8418	(818) 362-2141

6.2 Reporting to Outside Agencies

After the SPCC Coordinator (or designee) has been notified, he/she will conduct reporting to outside agencies.

6.2.1 Releases / Spills to Land, Air, Navigable or Other Waters

If a spill threatens to reach an off-site waterway, and the spill cannot be contained and recovered by facility personnel, then the following contacts shall be made in addition to the contacts in Section 6.1:

- **LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD**
  - (213) 576-6600

- **FIRE DEPARTMENT**
  - 911

6.2.2 Reporting Procedures

The following information shall be communicated in reporting to outside agencies:

a. name, title, telephone number, and address of reporter;
b. name, telephone number, and address of facility/spill;
c. time, type and amount of materials involved;
d. extent of injuries/illness, if known;
e. possible hazards to human health and environment;
f. any body of water involved;
g. the cause of accident/spill; and
h. the action taken or proposed by the facility/personnel.

6.3 Other Emergency Contacts

a. Hospital / Ambulance 911

b. Spill Cleanup

If landfill personnel cannot contain and re-cover a spill, and the Fire Department is not able or available to do so, the following private spill cleanup contractor will be contacted to provide assistance:

Patriot Environmental Services (661) 287-3737

APPENDIX A

MONTHLY INSPECTION FORM (SAMPLE)

APPENDIX A

MONTHLY INSPECTION FORM (SAMPLE)

SUNSHINE CANYON LANDFILL

FACILITY INSPECTION CHECKLIST - MONTHLY

LOCATION	INSPECTED BY	TODAY'S DATE

	1. HOUSEKEEPING	S/U/NA	DATE CORRECTED
	A. Yard and storage area orderly and well maintained		
	- Fluid materials (fuel , lubes, solvents, paints, etc.) stored in inside secondary containment		
	- Any drums stored outside are securely tarped.		
	- Closed containers provided for soiled rag disposal.		
	- All materials piled, racked or stored in a safe manner.		
	- Ladders in working order, slip feet maintained; no cradled or		
	- Secondary containment free of oil/water		
	- Protected from collision damage with barriers		
	- Fire extinguishers available		
	B. Condensate tank levels acceptable. No visible leaks.		
	C. Leachate tank levels acceptable. No visible leaks.		

	2. FIRE PREVENTION / EMERGENCY EQUIPMENT	S/U/NA	DATE CORRECTED
	A. Extinguishers inspected and serviced properly.		
	- Serviced a minimum of annually by licensed company.		
	- Checked monthly by designated company employee.		
	- Extinguishers accessible, location marked properly		
	- Tagged as to service date/repairman		
	- Hoses, standpipes, sprinkler heads in good condition		
	B. All equipment equipped with appropriate fire extinguishers or fire suppression systems		
	C. Smoking restrictions observed.		
	D. Fire blanket mounted and accessible.		
	E. Test fire, security detection / protection devices as required.		
	F. Test emergency lighting equipment if so equipped.		

3. HAZARDOUS MATERIALS AND INSPECTION CHECKLIST	S/U/NA	DATE CORRECTED
A. Perimeter fencing is intact.		
B. Gate lock in working condition.		
C. Proper signage in place.		
- Hazardous Waste Storage Area signs are legible and securely hung.		
- No Smoking signs posted.		
- 4-colored hazardous waste placard hung.		
D. No incompatible waste storage exists.		
- Bleach / Peroxide / Oxidizers are not stored by gasoline, batteries,		
- Batteries are stored in vented, water-tight plastic containers.		
- Miscellaneous reactive waste is stored away from flammable waste.		
- Acids are stored away from bases and lime.		
- All hydrocarbons are stored separately from acids and bases		

SUNSHINE CANYON LANDFILL

FACILITY INSPECTION CHECKLIST - MONTHLY

E. All waste containers are intact		
- Leaking containers are in plastic totes		
- Containers showing signs of corrosion are placed in plastic totes.		
- Check secondary containment pallets for holes or leaks		
- Check base of hazardous lockers for corrosion / holes		
F. All drums are labeled		
- Drums and storage areas with materials are clearly labeled for		
- Drums holding hazardous waste have been labeled with an accumulation sticker listing: - date of initial waste accumulation - landfill name and address - composition and physical state of the waste - California Waste Identification Number - Landfill RCRA identification number		

ABOVE-GROUND STORAGE TANK INSPECTION RECORD						
Tank Name / Number						
Location						
Contents						
Liquid level indicator inspected and found working properly; liquid levels acceptable.						
Signs of damage of deterioration to piping, supports, valve or joints?	Yes					
	No					
Signs of damage or deterioration of containment?	Yes					
	No					
Comments						

SUNSHINE CANYON LANDFILL

FACILITY INSPECTION CHECKLIST - MONTHLY

Describe Leaks and/or Spills	
Corrective Action Taken	

SUMMARY AND COMMENTS	
SIGNATURE	TODAY'S DATE

APPENDIX B

PERSONNEL TRAINING RECORD
(SAMPLE)

PERSONNEL TRAINING RECORD
SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN
SUNSHINE CANYON LANDFILL

Description of Training

Instructor Date

EMPLOYEES' NAMES

Printed Name	Signature

APPENDIX C

SPECIAL OCCURRENCES REPORT FORM (SAMPLE)

Sunshine Canyon Landfill

14747 San Fernando Rd.
Sylmar, CA 91342
Tel: 818/ 362-1567
Fax: 818/362-5484

SUNSHINE CANYON LANDFILL

A REPUBLIC SERVICES COMPANY

CITY/COUNTY - REPORT OF SPECIAL OCCURRENCES

	OCCURRENCE #: 1
DATE: SAMPLE	TIME: SAMPLE
REPORT MADE BY: SAMPLE	POSITION: SAMPLE

Check One:

- ☐ Fire
- ☐ Earthquake
- ☐ Unusual and Sudden Settlement
- ☐ Injury
- ☐ Other Unusual Occurrences
- ☐ Accident
- ☐ Explosion
- ☐ Presence of Hazardous Waste
- ☐ Flooding
- ☐ Landslide

Detailed Description of Occurrence:

Actions taken to mitigate this occurrence:

ATTACHMENT 3
WASTE MANIFESTS

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	714-639-7873	17-381

GENERATOR

5. Generator's Name and Mailing Address

Sunshine Gas Producers, LLC
14747 San Fernando Road
Sylmar, CA 91342

Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name — U.S. EPA ID Number

Pure Effect, Inc. — N/A

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

California Carbon
2525 East Grant Street
Wilmington, CA 90744
562-436-1962

N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Spent Non-Haz Carbon Media	2	BA	1200	P	
2.	Spent Non-Haz Carbon Media 2 55 gal drums		DM		P	
3.	Spent GAC sent to Cal. Carbon for reactivation.					
4.						

13. Special Handling Instructions and Additional Information

Always Wear Proper PPE

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Darrell Hansen — Signature: Darrell Hansen — Month: 8 — Day: 17 — Year: 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jose Alonso — Signature — Month: 8 — Day: 17 — Year: 17

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

Pure Effect
ENVIRONMENTAL

PACKING SLIP

Date: 1-26-2016 **Quote No: PE0119163-CTO**

Company: Republic Services Procurement, Inc.
Address: Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342
Attn: Achaya Kelapanda
Phone: 818-833-6508
Fax: 818-362-5484
Project Name:

Ship To: Sunshine Canyon Landfill
Address: 14747 San Fernando Road
Sylmar, CA 91342
Contact: Darryl
Phone: 818-652-5330
Fax:
Customer Representative: *Caleb Osborne*
Pure Effect Job#: 16-104 #1

F.O.B.: Jobsite	**Terms:** Net 30 Days	**P.O. #: PO5568811**
Shipping: Pure Effect Truck	**Scheduled: 1-27-2016 @ 6am**	**Order Date: 1-20-2016**

Quantity	Description
10,000 lbs	Vacuum and Rebed Service Includes – Transportation, Labor to Vacuum and Dispose of Non-Hazardous Spent Carbon, Refill w/ Activated Carbon (4mm) – Liquid Phase Vessels (Sub-Drain System & Cutoff Wall Site)
1	Reach Lift Rental Charge per Day
	Spent Carbon was sent to California Carbon
	for reactivation

Any controversy or claim arising out of or relating to this contract, or the breach thereof, shall be settled by arbitration in accordance with the Uniform Rules of Better Business Arbitration, and judgment upon the award rendered by the Arbitrator (s) may be entered in any Court having jurisdiction thereof.

Signature: _____ **Date:** 1/27/16

Pure Effect ENVIRONMENTAL

PACKING SLIP

Date: 5-17-2016

Quote No: PE0119163-CTO

Company: Republic Services Procurement, Inc.
Address: Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342
Attn: Achaya Kelapanda
Phone: 818-833-6508
Fax: 818-362-5484
Project Name:

Ship To: Sunshine Canyon Landfill
Address: 14747 San Fernando Road
Sylmar, CA 91342

Contact: Darryl
Phone: 818-652-5330
Fax:
Customer Representative: *Caleb Osborne*

Pure Effect Job#: ~~16-104~~ 75 #2 16-103#2

F.O.B.: Jobsite	**Terms:** Net ~~30~~ Days	**P.O. #: PO5797371**
Shipping: Pure Effect Truck	**Scheduled: 5-19-2016 @ 6am**	**Order Date: 5-09-2016**

Quantity	Description
6,000 lbs	Vacuum and Rebed Service Includes – Transportation, Labor to Vacuum and Dispose of Non-Hazardous Spent Carbon, Refill w/ Activated Carbon (4mm) – Liquid Phase Vessels (Leachate Treatment Plant)
1	Reach Lift Rental Charge per Day
	Spent Carbon was sent to California Carbon for reactivation

Any controversy or claim arising out of or relating to this contract, or the breach thereof, shall be settled by arbitration in accordance with the Uniform Rules of Better Business Arbitration, and judgment upon the award rendered by the Arbitrator (s) may be entered in any Court having jurisdiction thereof.

Signature: D. Hernandez **Date:** 5/19/16

Pure Effect
ENVIRONMENTAL

PACKING SLIP

Date: 12-06-2016

Quote No: PE111816-CTO

Company: Republic Services Procurement, Inc.
Address: Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342
Attn: Achaya Kelapanda
Phone: 818-833-6508
Fax: 818-362-5484
Project Name:

Ship To: Sunshine Canyon Landfill
Address: 14747 San Fernando Road
Sylmar, CA 91342
Contact: Darryl
Phone: 818-652-5330
Fax:
Customer Representative: ***Caleb Osborne***
Pure Effect Job#: 16-103 #3

F.O.B.: Jobsite	**Terms:** Net 30 Days	**P.O. #: PO6203629**
Shipping: Pure Effect Truck	**Scheduled: 12-08-2016 @ 7am**	**Order Date: 11-21-2016**

Quantity	Description
6,000 lbs	Vacuum and Rebed Service Includes – Transportation, Labor to Vacuum and Dispose of Non-Hazardous Spent Carbon, Refill w/ Activated Carbon (4mm) – Liquid Phase Vessels (Gray Water System)
1	Reach Lift Rental Charge per Day
	Spent Carbon was sent to California Carbon
	for reactivation.

Any controversy or claim arising out of or relating to this contract, or the breach thereof, shall be settled by arbitration in accordance with the Uniform Rules of Better Business Arbitration, and judgment upon the award rendered by the Arbitrator (s) may be entered in any Court having jurisdiction thereof.

Signature: _____ **Date:** 12/8/16

Pure Effect ENVIRONMENTAL

PACKING SLIP

Date: 10-07-2015

Quote No: 30620151-JHS/MS

Company: Republic Services Procurement, Inc.
Address: Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342
Attn: Achaya Kelapanda
Phone: 818-833-6508
Fax: 818-362-5484
Project Name:

Ship To: Sunshine Canyon Landfill
Address: 14747 San Fernando Road
Sylmar, CA 91342
Contact: Darryl
Phone: 818-652-5330
Fax:
Customer Representative: *Michael Slaby*
Pure Effect Job#: 15-241 #2

F.O.B.: Jobsite	**Terms:** Net 30 Days	**P.O. #: PO5339774**
Shipping: Pure Effect Truck	**Scheduled: 10-12-2015 @ 7am**	**Order Date: 10-02-2015**

Quantity	Description
6,000 lbs	Vacuum and Rebed Service Includes – Transportation, Labor to Vacuum and Dispose of Non-Hazardous Spent Carbon, Refill w/ Activated Carbon (4mm) – Liquid Phase Vessels
1	Reach Lift Rental Charge per Day
	Spent Carbon was sent to California Carbon for reactivation

Any controversy or claim arising out of or relating to this contract, or the breach thereof, shall be settled by arbitration in accordance with the Uniform Rules of Better Business Arbitration, and judgment upon the award rendered by the Arbitrator (s) may be entered in any Court having jurisdiction thereof.

Signature: _____ **Date:** 10/12/15

Pure Effect
ENVIRONMENTAL

PACKING SLIP

Date: 10-07-2015

Quote No: 803201511-JHS/MS

Company: Republic Services Procurement, Inc.
Address: Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342
Attn: Achaya Kelapanda
Phone: 818-833-6508
Fax: 818-362-5484
Project Name:

Ship To: Sunshine Canyon Landfill
Address: 14747 San Fernando Road
Sylmar, CA 91342

Contact: Darryl
Phone: 818-652-5330
Fax:
Customer Representative: *Michael Slaby*
Pure Effect Job#: 15-536

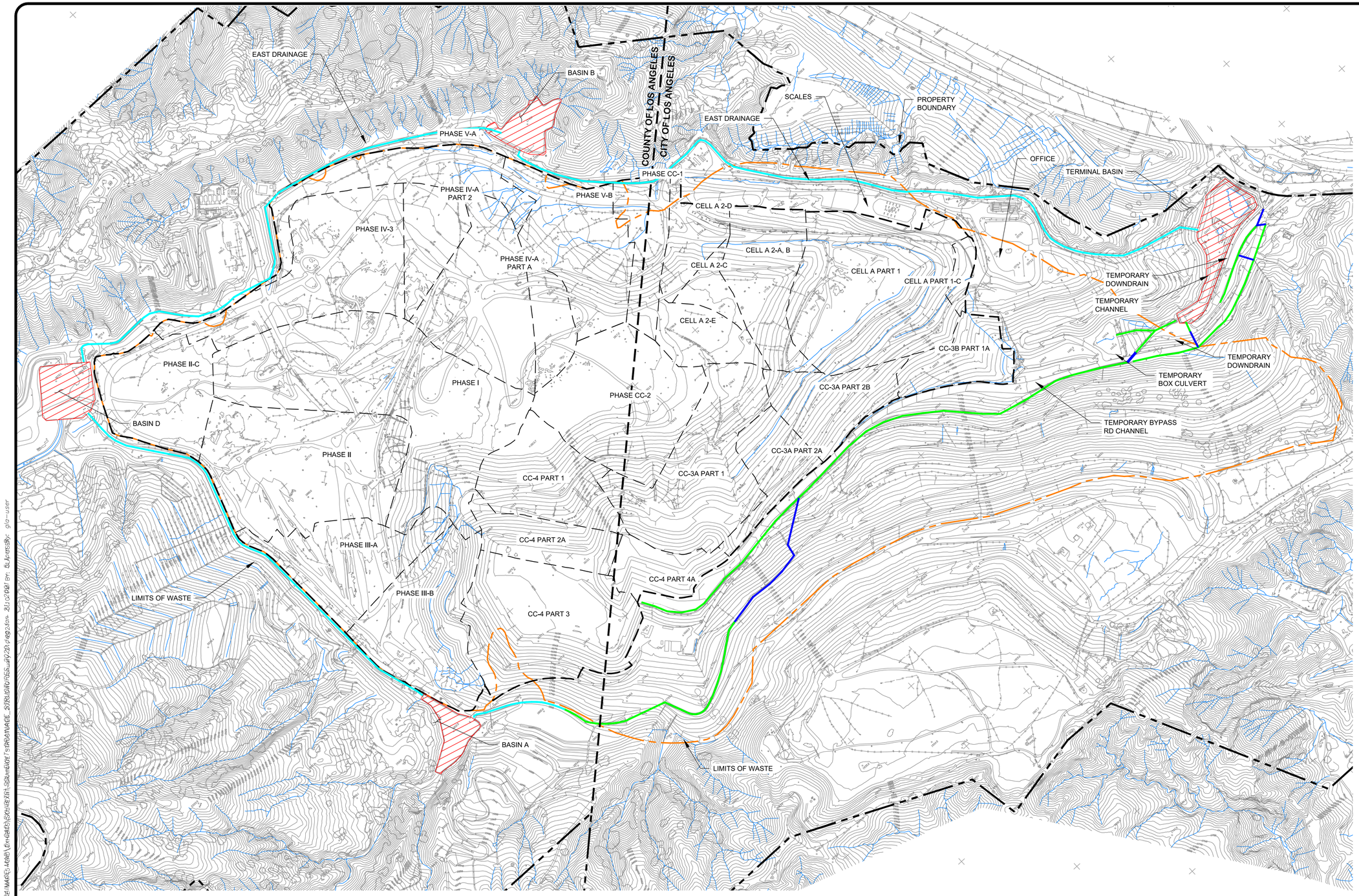
F.O.B.: Jobsite	**Terms:** Net 30 Days	**P.O. #: PO5339776**
Shipping: Pure Effect Truck	**Scheduled:** 10/13/15 & 10/14/15 @ 7am	**Order Date: 10-02-2015**

Quantity	Description
10,000 lbs	Vacuum and Rebed Service Includes – Transportation, Labor to Vacuum and Dispose of Non-Hazardous Spent Carbon, Refill w/ Activated Carbon (4mm) – Liquid Phase Vessels
2 Days	Reach Lift Rental Charge per Day
2	Pure Effect Fee for Manifold Cleaning
	Spent Carbon was sent to California Carbon for reactivation

Any controversy or claim arising out of or relating to this contract, or the breach thereof, shall be settled by arbitration in accordance with the Uniform Rules of Better Business Arbitration, and judgment upon the award rendered by the Arbitrator (s) may be entered in any Court having jurisdiction thereof.

Signature: D. Hansen **Date:** 10/14/15

ATTACHMENT E



300' 0' 150' 300' 600'

LEGEND

- 1500 — EXISTING 25' CONTOUR(1)
- PROPERTY BOUNDARY
- LIMITS OF REFUSE
- PHASE LIMITS
- LINER CONSTRUCTED TO DATE
- PERMANENT DRAINAGE CHANNEL
- TEMPORARY DRAINAGE CHANNEL
- TEMPORARY CMP/CPP PIPE
- STORMWATER BASIN

This drawing has not been published but rather has been prepared by Geo-Logic Associates, Inc. for use by the client named in the title block, solely in respect of the construction operation, and maintenance of the facility named in the title block. Geo-Logic Associates, Inc. shall not be liable for the use of this drawing on any other facility or for any other purpose.

REFERENCE AERIAL TOPO BASED ON FEBRUARY 13, 2020 AERIAL SURVEY BY COOPER AERIAL SURVEYS CO.

REV. NO.	DATE	DESCRIPTION	APPROVED BY
0	01/21/21	SITE DRAINAGE MAP	C BARRETT

DATE OF ISSUE: JAN 2021
DESIGNED BY: C BARRETT
DRAWN BY: M NEEDS
CHECKED BY: C BARRETT
APPROVED BY: C BARRETT

DIGALERT 811

Geo-Logic ASSOCIATES
2777 EAST GUASTI ROAD
SUITE 1
ONTARIO, CA 91761
(909) 626-2282
www.geo-logic.com

REPUBLIC SERVICES
SUNSHINE CANYON LANDFILL
14747 SAN FERNANDO ROAD
SYLMAR, CA. 91342

SUNSHINE CANYON LANDFILL
SYLMAR, CALIFORNIA
TAC REPORT

SITE DRAINAGE COMPONENTS

DWG NO. 1
PROJECT NO. S020.1075

ATTACHMENT F

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

GAIL FARBER, Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

June 15, 2016

IN REPLY PLEASE
REFER TO FILE: EP-5

Mr. Rob Sherman, General Manager
Sunshine Canyon Landfill
Republic Services, Inc.
14747 San Fernando Road
Sylmar, CA 91342-1021

SUNSHINE CANYON CITY/COUNTY LANDFILL
CONDITIONAL USE PERMIT NO. 00-194-(5)
COMMENTS ON THE REVISED WEST DRAINAGE CHANNEL MASTER PLAN

Dear Mr. Sherman:

We have reviewed the following documents submitted by Republic Services, Inc. (Republic) to the Los Angeles County Department of Public Works (Public Works) for the revised West Drainage Channel Master Plan Project:

- Private Drain No. XXXX – Sunshine Canyon Landfill West Drainage, submitted by Republic to Public Works on December 10, 2015; and
- Surface Water Drainage Analysis – West Drainage Master Plan, submitted by Republic to the Los Angeles Regional Water Quality Control Board on January 9, 2015.

Based on our review, the following are our comments:

General Design
Please see enclosed plans containing comments on the Revised WDC Master Plan.

Geotechnical and Materials
The Surface Water Drainage Analysis for the Landfill's WDC Master Plan appears to conceptually meet the proposed development needs. However, in order for the design to be accepted as permanent, it will be necessary to meet all minimum County standards and those standards set forth in the California Code of Regulations, Title 27, Section 21750; Conditional Use Permit No. 00-194-(5) Condition No. 38; and applicable portions of the 2014 County of Los Angeles Building Code.

The following comments must be addressed prior to recommendation of the proposed West Drainage Private Drain for approval by Public Works.

1. Provide a geotechnical map that complies with the provisions of the County of Los Angeles Department of Public Works *Manual for Preparation of Geotechnical Reports*. The geotechnical map shall be based on the proposed improvement plans.

   As outlined in the Department of Public Works Manual for Preparation of Geotechnical Reports, the geotechnical map must show the following:

   a. The aerial distribution of geologic materials with sufficient lateral extent beyond the property limits to determine the potential adverse effects on existing landfill operations and off-site properties, as appropriate, with sufficient geologic symbols to depict clearly site geology.

   b. Existing landfill cell limits; landslides and their limits; all geotechnical cross-sections, including those utilized for slope stability analyses; springs and seeps (discharge rate should be noted); subdrains; limits of shear keys, keyway excavations, and buttress fills; geotechnical hazard setback lines/planes; exploratory excavations and borings locations, including those not removed by grading; and any areas of over-excavation and replacement.

2. All relevant subsurface data and associated logs (soil borings, groundwater wells, borings with inclinometers, gas monitoring wells, etc.) referenced on the geotechnical map must be provided in the report.

3. Natural and manmade slopes with slope gradients steeper than 2:1 (horizontal:vertical) (h:v) or where geologic structure may adversely affect slopes with shallower slope gradients shall be analyzed for slope stability with respect to the proposed improvements.

4. Geotechnical cross-sections shall include all relevant subsurface explorations; illustrate geologic contacts; indicate true and apparent dips of bedding and other discontinuities, such as joints, fractures, faults, etc.; potentiometric surface; seeps; and all other relevant geologic details.

5. Appropriate bedding plane and joint/fracture shear strengths representative of site-specific geologic materials shall be represented in the stability analyses, as appropriate. Provide supporting data for all material strengths utilized in slope stability analyses.

Note: Shear strength values provided in Table No. 20 of the JTD may be used only in seismic slope stability analyses. They are not appropriate for use in static slope stability analyses.

6. Provide static, seismic, and surficial slope stability analyses for all conditions that may impact or alter (i.e. horizontal and/or vertical displacement) the drainage paths of the channel alignment.

7. For each stability analysis presented, a corresponding detailed geotechnical cross-section shall be provided that shows the distribution of geologic materials. The critical failure plane and the various shear strength parameters used in the appropriate segments of each failure plane shall be shown on the analyses. If factors of safety are below County minimum standards then mitigation measures shall be presented.

8. Stability analyses shall investigate the various slope stabilities that may be affected by the proposed development. Methods of analyses (i.e. circular, translational or block, non-circular, etc.), the limit equilibrium methods (i.e. Ordinary Method of Slices, Modified Bishop Method, Morgenstern-Price based General Limit Equilibrium, etc.), and their related analyzed slip surfaces shall be comprehensive and determine the critical failure plane and factor of safety.

9. The Surface Water Drainage Analysis for Sunshine Canyon Landfill West Drainage Channel Master Plan document acknowledged a potential for settlement to occur over those portions of the proposed private drain alignment that traverse existing waste areas.

    a. Provide specific numerical values for the potential total static and seismically induced settlements. All settlement values shall be supported by appropriate data and analyses. Provide mitigation recommendations for all areas where values exceed County settlement policies.

    b. Provide specific distances over which the differential settlement may occur. Refer to the aforementioned Department of Public Works Manual for Preparation of Geotechnical Reports for County standards.

    c. Recommended mitigation measures shall be made part of the plans.

        Note: All mitigation measures on the plans shall be constructed.

10. Address the flow gradient for the proposed West Drainage Private Drain that may experience settlement (even tolerable differential settlement). Provide specific recommendations for preventing areas to create ponding within the private drain. Any section that exceeds permitted flow levels within the channel shall include protective slope improvements to prevent concentrated slope erosion and potentially exposure of buried waste. Provide recommended mitigation measures and details on the plans as necessary.

11. Provide chemical test results (sulfate, chloride, resistivity, etc.) for the on-site soils to address the presence of chemicals deleterious to construction materials and utility lines. The chemical tests must be in accordance with California Test Methods, Department of Transportation, or equivalent. Aqueous solution tests, such as EPA Tests or similar methods, are not acceptable for determination of resistivity. Resistivity tests must be performed on soils in a saturated condition. Recommend mitigation as necessary.

12. In accordance with Section 111 of the County of Los Angeles Building Code, the geotechnical consultant(s) shall make a finding regarding the safety of the site of the proposed work against hazard from landslide, settlement, or slippage and a finding regarding the effect that the proposed building or grading construction will have on the geotechnical stability of the area outside of the proposed work. The finding must be substantiated by appropriate data and analyses and be included in the geotechnical report.

13. Include details for fill placed over existing terrain steeper than 5:1 gradient and a keying and benching detail with all dimensions as determined by a Soils Engineer in the Design Report and plans.

14. Submit plans for verification of compliance with County codes and policies. Plans (scaled at 1-inch ≤ 40-feet) shall include, at a minimum, the following, where applicable:

    a. Existing and proposed grades;
    b. Slope gradients;
    c. Subdrain systems;
    d. Removal and recompaction depths and limits;
    e. Location of existing and proposed channels and related drainage features;
    f. Grading sequences (e.g. ABC slot-cutting or removal of landslide driving force before removing supporting toe, etc.); and

g. All standard general geotechnical notes and fill notes regarding fill compaction and density testing requirements.

Additional drainage and grading requirements of the Department of Public Works can be accessed at http://dpw.lacounty.gov/bsd/publications, typical grading requirements are provided on the Grading Review Sheet (see http://dpw.lacounty.gov/bsd/lib/fp/Drainage and Grading/Plan Check Documents/Grading Review Sheet (12-23-15).pdf). All applicable grading and drainage requirements shall be incorporated into the plans.

15. All geotechnical reports submitted for review must include an electronic copy of the report on a Compact Disk in Adobe® Portable Document Format (PDF). The electronic version shall include an electronically generated representation of the licensee's seal, signature, and date of signing.

Review Exclusions

The following list of items are beyond the scope of this geotechnical review and are assumed to be addressed by others agencies, such as the Regional Water Quality Control Board, except for when those design items potentially affected slope stability analyses of interim and final slope gradients that may have potential health and safety issues or adverse effects to off-site properties:

- Surficial stability of final cover slopes shallower than 2:1 (h:v);
- Potential deformation of final cover under static and seismic loading;
- Design and evaluation of base liner section, alternate liner section, and slope liner section;
- Protective layer (operation layer);
- Landfill gas collection system;
- Leachate collection and removal system.

Water Resources

The following comments on the Private Drain No. XXXX – Sunshine Canyon Landfill West Drainage Plans:

1. **DWG No. 02.** Within the Hydraulic Element table, double-check whether Line C should be from Sta 71+00 to 76+47.46, instead of from 71+00 to 75+47.46.

2. **DWG No. 03.** The interim flow of 700 cubic feet per second (cfs) does not appear in the hydrology of the West Drainage Channel. Please discuss the interim flow of 700 cfs, its source, timing, and impact to the receiving drain

"Line A." Without further context, it appears the incoming flows to Line A consist of 700 cfs from Line E and 1,245 cfs from Line B while the capacity of Line A is 1266 cfs.

3. **DWG No. 06.** Pertaining to the upper chart, the capacity of 724 cfs should be depicted downstream from Sta 37+00.

4. **DWG No. 06.** Pertaining to the upper chart, double check whether the capacity should be shown as Q = 764 cfs, instead of Q = 760 cfs.

5. **DWG No. 10.** Pertaining to Line F, the pipe should be able to pass the burned flow rate of 86 cfs instead of 81 cfs. Pertaining to Line E: the pipe should be able to pass the burned flow rate of 60 cfs instead of 56 cfs.

6. **DWG No. 11.** Pertaining to Debris Basin No. 2, there appears to be duplicate labeling of the concrete channel.

Final review of this Project is contingent upon the approval of Cell CC-4 Development Project and/or any future projects or grading that may alter the design and analysis of the WDC Master Plan.

If you have any questions, please contact Mr. Martins Aiyetiwa at (626) 458-3553, Monday to Thursday, 7 a.m. to 5:30 p.m.

Very truly yours,

GAIL FARBER
Director of Public Works

MARTIN AIYETIWA
Senior Civil Engineer
Environmental Programs Division

KM:jl
P:\Sec\PW Comments to SCL West Drainage.doc

Enc.

California Water Boards

Edmund G. Brown Jr.
Governor

Matthew Rodriguez
Secretary for
Environmental Protection

Los Angeles Regional Water Quality Control Board

October 24, 2016

Ms. Patti Costa, Environmental Manager
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342

APPROVAL OF REVISED WEST DRAINAGE CHANNEL MASTER PLAN - SUNSHINE CANYON LANDFILL, SYLMAR, CALIFORNIA (FILE NO. 58-076, ORDER NO. R4-2008-0088, GEOTRACKER GLOBAL ID NO. L10006014618)

Dear Ms. Costa:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board), is in receipt of your letter dated April 27, 2016, transmitting a revised *Surface Water Drainage Analysis, West Drainage Channel Master Plan, Sunshine Canyon Landfill* (Revised Plan), dated January 7, 2015, that was submitted to the State Water Resources Control Board Geotracker data system on April 27, 2016. The Revised Plan provides updated analysis and design details for the construction of the West Drainage Channel at the Sunshine Canyon City/County Landfill (Landfill), which is owned and operated by Republic Services (Discharger) and regulated under waste discharge requirements (WDRs) included in Order No. R4-2008-0088 adopted by this Regional Board on October 2, 2008.

The initial plan was submitted to the Regional Board on March 28, 2014. In a letter dated July 1, 2014 (copy attached), Regional Board staff provided comments that, among others, expressed concerns about potential damages that may be caused by differential settlements of the closed City Landfill No. 1, over which part of the drainage channel will be constructed. In addition, the letter included comments from the Los Angeles County Department of Public Works (LACDPW) on the technical aspects of the plan.

Reginal Board staff have reviewed the Revised Plan and has determined that comments included in our July 1, 2014, letter have been adequately addressed. Specifically, the Revised Plan proposes to use Geocell-reinforced concrete with a geogrid reinforcement layer in the foundation of the channel in areas underlain by the closed landfill unit. We concur that such a design is expected to be able to offset the effects of potential differential settlements of the existing waste mass. The Revised Plan is therefore approved. In accordance with Section K (Provisions for Drainage and Erosion Control) of the WDRs, all drainage structures at the Landfill shall be protected and maintained continuously to ensure their effectiveness. The Discharger is responsible to inspect, repair, and replace the drainage channel if damages occur during the active life and post-closure period of the Landfill.

Please note that approval of the Revised Plan by the Reginal Board staff is in conjunction with its approval and clearance by other regulatory agencies, including the LADPW. In accordance

with Requirement M.3. of the WDRs[1], approval of the Revised Plan by the Regional Board does not release the Discharger from the responsibility of complying with any other laws and regulations that may be enforced by other regulatory agencies.

A public notice regarding this approval was sent to known interested parties on September 12, 2016, to meet General Provision No. M.22. of the WDRs, which states: "*During oversight of this Order, wherever the Executive Officer is authorized to grant any approval under a particular provision of this Order, the Executive Officer is directed to assess if there is controversy associated with the decision following public notice and, if so, bring the decision to the Regional Board for approval.*" The deadline for submitting comments regarding this matter was October 12, 2016. We received no comments regarding this matter during the period.

If you have any questions, please contact Dr. Wen Yang, Chief of the Land Disposal Unit, at (213) 620-2253 or wyang@waterboards.ca.gov.

Sincerely,

Samuel Unger, P.E.
Executive Officer

Enclosure

Mailing List:

Leslie Graves, State Water Resources Control Board (Leslie.Graves@Waterboards.ca.gov)
Michael Wochnick, CalRecycle (Michael.Wochnick@CalRecycle.ca.gov)
Gerardo Villalobos, Sunshine Canyon Landfill LEA (gvillalobos@ph.lacounty.gov)
David Thompson, Sunshine Canyon Landfill LEA (david.thompson@lacity.org)
Martin Aiyitiwa, Los Angeles County Department of Public Works (MAIYET@dpw.lacounty.gov)
Mohsen Nazemi, South Coast Air Quality Management District (MNazemi1@aqmd.gov)
Richard Slade, Upper Los Angeles River Area Watermaster (ularawatermaster@rcslade.com)
Mitchell Englander, Councilmember, 12th District, City of LA
(councilmember.Englander@lacity.org)
Ly Lam, City of Los Angeles Department of City Planning (ly.t.lam@lacity.org)
Dave Nguyen, Los Angeles County Department of Public Works
(DNGUYEN@dpw.lacounty.gov)
Wayde Hunter, North Valley Coalition, Granada Hills (WHunter01@aol.com)
Wayne Aller, Knollwood Property Owners Association, Granada Hills
(waynealler07@hotmail.com)
Becky Bendickson, Granada Hills North Neighborhood Council (bebend99@gmail.com)
Kim Thompson, Granada Hill North Neighborhood Council (kimthompson@socal.rr.com)

---

[1] Requirement M.3. of the WDRs states: "*These requirements do not exempt the Discharger from compliance with any other current or future law that may be applicable. They do not legalize this waste management facility, and they leave unaffected any further restraints on the disposal of wastes at this waste management facility that may be contained in other statutes.*"

Wayne Adelstein, North Valley Regional Chamber of Commerce (wayne@nvrcc.com)
Ralph Kroy, LA City Sunshine Canyon Landfill Community Advisory Committee (REKroy@aol.com)
Robert Sherman, Republic Services (RSherman@republicservices.com)
Patti Costa, Republic Services (PCosta@republicservices.com)

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

July 1, 2014

Ms. Patti Costa, Environmental Manager
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342

COMMENTS ON WEST DRAINAGE CHANNEL MASTER PLAN - SUNSHINE CANYON LANDFILL, SYLMAR, CALIFORNIA (FILE NO. 58-076, ORDER NO. R4-2008-0088, WDID NO. 4B190329001)

Dear Ms. Costa:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board), has received from you a report titled *Surface Water Drainage Analysis, West Drainage Channel Master Plan, Sunshine Canyon Landfill, Los Angeles County, California* (Plan), dated March 2014, prepared by GeoLogic Associates, and submitted to the Regional Board on March 28, 2014.

The Sunshine Canyon (Landfill) is a Class III municipal solid waste landfill that is owned and operated by Republic Services Company and regulated under wasted discharge requirements (WDRs) included in Order No. R4-2008-0088 adopted by the Regional Board on October 2, 2008. In a letter dated August 29, 2013, the Regional Board staff approved a design report for the Phase CC-3B liner construction at the Landfill, with the condition that a detailed design plan for the West Drainage Channel, a permanent storm drain that will be constructed concurrently with the proposed Phase CC-3B liner system, be submitted for the approval of Regional Board staff. The Plan was submitted to meet this condition. Meanwhile, the Plan was also submitted to the Los Angeles County Department of Public Works (LACDPW) for its review.

Regional Board staff has reviewed the Plan and consulted with staff of the LACDPW on the technical aspects of the proposed design. The LACDPW provided its comments on the Plan with a letter addressed to you dated June 16, 2014 (copy attached). The Regional Board staff concurs with those comments in the LACDPW letter and has additional comments on the Plan as follows:

1. A significant portion of the proposed drainage channel will be constructed on top of the City Landfill Unit 1, which has been closed since 1971. A major concern is that differential settlement within the waste mass of the closed landfill could cause serious damage to the proposed concrete channel once it is constructed. Although the Plan proposes a cross section for the portion of the drainage channel over the waste mass (Drawing No. C12) that is different from the cross section for the portion of the channel over native soil (Drawing No. C11), it does not include a discussion to demonstrate that such a design will be adequate to prevent significant damages to the channel that may be caused by differential settlement.

2. Attachment C of the Plan includes drawings of maps, cross sections, and detailed layout of the proposed drainage channel. However, there is no discussion in the Plan to illustrate the purpose of each drawing. Many features and symbols in those drawings are not adequately labeled or referenced. This makes the drawing hard to following and in some cases, not legible. For example, Drawing No. C10 presents two cross sections (Section A-A' and Section B-B'), but there is not a map showing where those cross sections are located and no explanation on the purpose of such cross sections is found in the Plan.

3. Section 5 and Attachment H of the Plan discuss an alternative outfall alignment for the proposed West Drainage Channel. Since the alternative layout involves an extension of the proposed channel line and the excavation of wastes that have been disposed of at the closed City Landfill, a revised design plan must be reviewed and approved by the Regional Board and other regulatory agencies with jurisdiction over the landfill, if the drainage channel is constructed following the alternative outfall alignment.

4. Section D.1. of the WDRs requires that "*All containment structures and erosion and drainage control systems at the Landfill shall be designed and constructed under direct supervision of a California-registered civil engineer or certified engineering geologist, and shall be certified by the individual as meeting the prescriptive standards and/or performance goals of 27 CCR.*" Such a certification is not included in the Plan.

Please address the above comments and the comments provided by the LACDPW in its letter dated June 16, 2014, and submit a revised design plan for the project. Construction of the proposed drainage channel shall not be started until a design plan and final construction plans for the project are approved by the Regional Board staff.

If you have any questions, please contact Dr. Wen Yang, Chief of the Land Disposal Unit, at (213) 620-2253 or wyang@waterboards.ca.gov.

Sincerely,

Samuel Unger, P.E.
Executive Officer

Enclosure: Letter from Los Angeles County Department of Public Works, dated June 16, 2014

cc: Emiko Thompson, Los Angele County Department of Public Works
Gerardo Villalobos, Sunshine Canyon Landfill LEA
David Thompson, Sunshine Canyon Landfill LEA
Eugene Tseng, City of Los Angeles, Environmental Affairs Department
Wayde Hunter, North Valley Coalition, Granada Hills

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

GAIL FARBER, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

June 16, 2014

IN REPLY PLEASE
REFER TO FILE: EP-5

Ms. Patti K. Costa
Environmental Manager
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342-1021

Dear Ms. Costa:

WEST DRAINAGE CHANNEL MASTER PLAN
SURFACE WATER DRAINAGE ANALYSIS REPORT
SUNSHINE CANYON CITY/COUNTY LANDFILL

We reviewed your Surface Water Drainage Analysis report for the West Drainage Channel Master Plan dated March 2014 pursuant to Condition No. 38 of the Sunshine Canyon City/County Landfill Conditional Use Permit No. 00-194-(5) and have the following comments:

- The Drainage Map, Figure 1, provided under Attachment D shall include adequate topography, clarity, and resolution to depict watershed delineation. Each subarea shall be clearly labeled, and subarea collection points shall be shown. The Time of Concentration path from the most remote point of the subarea to the outlet of the subarea shall also be clearly identified. Elevations at the top and at the outlet point of each subarea shall be shown. The paths through which surface flows from the subareas are conveyed to the proposed West Drainage Channel shall also be shown. All drawings including any details, as well as any attachments must be clearly legible in order to facilitate proper review.

- The final outlet from the downdrain/impact basin area into the Terminal Basin is not clearly depicted in any of the design plans or drainage plans. This information shall be provided in the resubmittal which shall include details for the connection of the West Drainage Channel to the Terminal Basin. Details should include but not be limited to alignment profile and cross sections.

- Subarea SA1 is greater than 40 acres and should be further divided to meet Public Works' hydrology standards. The optimum size for a subarea in the County approved Modified Rational Method model is 40 acres. However, smaller subareas are acceptable.

- Section 3.0 – "Surface Water Drainage Analysis," references the Santa Clara River Watershed. However, the receiving drainage system for the Sunshine Canyon Landfill's watershed is Bull Creek, a tributary to the Los Angeles River which is part of the Los Angeles River Watershed. Accordingly, all drainage run-off analyses shall utilize parameters including fire factors, debris production rates, and peak bulk factors, attributable to the Los Angeles River Watershed, rather than the Santa Clara River Watershed.

- The assumption made in Section 4.0 – "Control Structure Sizing," regarding the non-additive nature of runoff flows generated by the surrounding tributary areas to the Western Drainage Channel cannot be claimed. Some flows will be additive to the 480 cubic feet per second peak outflow rate from Basin A. In order to identify the peak flow rate conveyed within the channel and the downdrain, hydrographs from Basin A and each subarea tributary to the West Drainage Channel must be routed together along the reaches of the West Drainage Channel to the Terminal Basin. The resulting peak outflow rate into the Terminal Basin shall be reevaluated to determine the cumulative flow routing effects due to various factors such as channel storage and timing.

- The current hydrologic analysis for the West Drainage Channel is not based on the topography at the point of the landfill's built-out condition. At build-out a substantial area, shown as the area highlighted in red on the enclosed Drainage Map, will become tributary to the West Drainage Channel. Also, not included in the hydrologic analysis is the contribution from the immediate area south of the trapezoidal channel shown as the area highlighted in yellow on the enclosed Drainage Map. Both of these areas shall be included in the hydrologic analysis.

- Under Attachment C, some of the "Alignment Profile" drawings did not reference the correct "Details" drawings. Detailed call-outs on drawings should be labeled correctly with appropriate symbols (as shown in Drawing No. G01) to ensure that all "Alignment Profile" and "Details" drawings are referenced appropriately.

Please address these comments and resubmit a revised West Drainage Master Plan for further review. If you have any questions, please contact Ms. Emiko Thompson at (626) 458-3521, Monday to Thursday, 7 a.m. to 5:30 p.m.

Very truly yours,

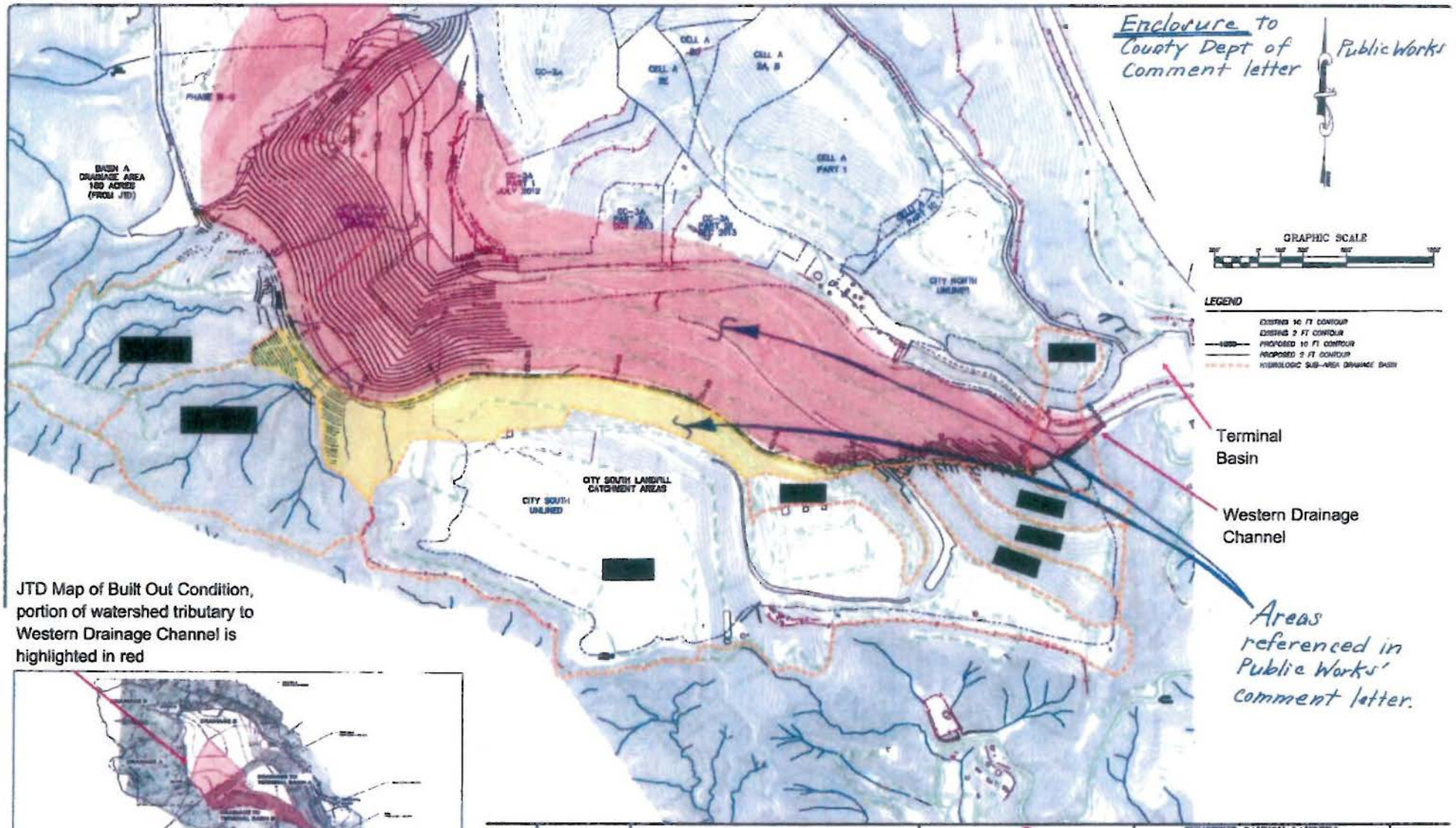
GAIL FARBER
Director of Public Works

PAT PROANO
Assistant Deputy Director
Environmental Programs Division

KM:dy
P:\Sec Western Drainage Master Plan

Enc.

cc: Regional Water Quality Control Board, Los Angeles Region (Wen Yang)
Sunshine Canyon Landfill Local Enforcement Agency (Gerry Villalobos)
Department of Regional Planning (Maria Masis)
City of Los Angeles Department of City Planning (Ly Lam)



JTD Map of Built Out Condition, portion of watershed tributary to Western Drainage Channel is highlighted in red

Geo-Logic ASSOCIATES

REPUBLIC SERVICES

SUNSHINE CANYON LANDFILL
WESTERN DRAINAGE MASTER PLAN
SYLMAR, CALIFORNIA
DRAINAGE MAP

FIGURE 1

PROJECT NO. 2014.0004

ISSUED FOR REVIEW

ATTACHMENT G

SUNSHINE CANYON Landfill
14747 San Fernando Road
Sylmar, CA 91342

2021 WET WEATHER PREPAREDNESS REPORT AND WINTER OPERATIONS PLAN

SUNSHINE CANYON CITY/COUNTY LANDFILL

SUNSHINE CANYON Landfill
14747 San Fernando Road
Sylmar, CA 91342

September 30, 2021

Mr. Dave Thompson
SCL – LEA Program Manager
Los Angeles County Department of Public Health – LEA Program
5050 Commerce Dr
Baldwin Park, CA 91706

SUBJECT: 2021 WET WEATHER PREPAREDNESS REPORT AND WINTER OPERATIONS PLAN - SUNSHINE CANYON CITY/COUNTY LANDFILL

Mr. Dave Thompson

In accordance with Sunshine Canyon City/County Landfill (SCL), Solid Waste Facility Permit (SWFP) (Facility #19-AA-2000), Condition 16.I, SWT Engineering (SWT) has prepared this Wet Weather Preparedness Report and Winter Operations Plan (Wet Weather Preparedness Report) on behalf of Browning Ferris Industries of California, Inc. dba Sunshine Canyon Landfill, Inc. As reported in prior years, the goals of the Wet Weather Improvements installed at the SCL are classified under four categories:

1. **Sediment Management:** Consists of constructed measures to minimize suspended solids from the site runoff exiting the terminal basin;
2. **Erosion Control Measures:** Consists of features to prevent rainfall and runoff erosion of daily and intermediate soil layers that cover active refuse fill areas with the purpose of preventing storm water contact to buried refuse. This includes grading of soil covers to prevent surface ponding and subsequent storm water infiltration into the existing refuse fill;
3. **Maintenance:** Consists of maintaining existing storm water control structures serving both the active and the closed refuse fill areas; and
4. **Expansion:** Consists of installing new runoff control systems to meet the changing needs of the site due to ongoing fill operations.

The following breaks down the four classified categories listed above for the SCL.

Sediment Management and Erosion Control Measures – (Categories 1 and 2):

The following is a list of work that has been completed to address sediment management and erosion control on site:

- Installed 26 acres of ClosureTurf (2017) to provide slope protection on slope areas east of the administration buildings (See Drawing 2);
- Inspected Filtrex compost rolls at the toe of disturbed slopes throughout various areas of the site;
- Track-walked slopes throughout the site to reduce slope erosion and allow establishment of seeded or native vegetation in non-active areas;
- Inspected the basin risers filter fabric in Basins A, B, and D;
- Cleaned the skimmer systems in the Terminal Basin to make sure they are functioning properly;
- Installed 6 acres of fiber rolls spaced at 10-feet vertically on a eastern facing slope;
- Graded active landfill decks to prevent erosion by avoiding overly steepened swales and decks;
- Based operational wet weather deck and installed rumble strips at the exit to help prevent drag out; and
- Graded soil cover in active landfill areas to prevent surface ponding.

Maintenance and Expansion of Storm Water Control Systems – (Categories 3 and 4):

The following is a list of maintenance and new stormwater project that have been completed on site:

- Removal of silt, gravel check dams, and vegetation from the perimeter channels;
- Cleanout of sediment from Basins A, B, D, and the Terminal Basin;
- Cleaned out access road trench drain systems;
- Graded benches to promote positive drainage;
- Cleaned pipes and inlets of vegetation and litter;
- Fiber rolls installed prior to down drain flumes/channels, and at the base of all stockpiles;
- Construction of Diversion Berms and swales;
- Cleaned the gabion check dams along the fire road on City South;
- Slip lined down drain channel repairs;
- Installation of an “Arizona Crossing” near the scales to help direct drainage towards adjacent drainage channels; and
- Repaired pipe joints and reset down-drains as required.

Constructed/Maintained Sediment Management and Erosion Control Measures:

The following control systems were constructed prior to the 2021-2022 wet weather season remain in place as part of the site's overall stormwater management plan:

- Installation of a gabion cage wall in the terminal basin to slow storm water flow and allow deposition of silt;
- 26 Acres of Closure Turf (2017) and 15+ acres of coconut matting (2017-2019) on interim refuse fill slopes;
- Drainage improvements along the northeast perimeter road; and
- Graded landfill decks to ensure drainage to the perimeter channels/basins in the northwest via pumping system.

Planned Sediment Management and Erosion Control Measures:

There is one project that is currently under construction and scheduled for completion by the end of October 2021 (see Drawings 3 & 4).

- Regrading of approximately 19 acres to eliminate low points and direct top deck drainage towards the perimeter channel and pumped to the channel as needed to reduce ponding.

Sediment Management and Erosion Control Measures:

The SCL has two separate construction projects currently in place by Sukut Construction of which they are under construction SWPPP's. The first is the Entrance Road Improvements Construction Project of which consists of 2 separate phases. The second is the Cell 4B and 4C Liner Construction Project. Both projects have their own SWPPP's an have final BMP's to be installed at the end of the project as shown on the figures within Attachment 1.

Wet Weather Preparedness:

The Site's Operational Plan included a Wet Weather Preparedness plan including actions that would be taken prior to a predicted severe wet weather event. These measures will be taken at least 24 hours prior to the projected on-set of the event. The application of these additional measures will be based on an assessment of the existing site conditions prior to the event and what additional measures will be most effective in minimizing surface erosions. The additional measures may include some or all of the following actions:

- Benches will be cambered at 3% to prevent stormwater from flowing onto slope areas and creating erosion rills;
- Additional fiber rolls/straw wattles will be placed on slope areas at a minimum of 20 vertical feet to slow stormwater flow;
- Application of soil stabilizer containing polymers formulated specifically for stabilization of slopes on appropriate slope areas, where applicable;
- Construction of additional stormwater control berms as necessary to direct stormwater flow to the appropriate existing on-site structures; and

Site inspections by SCL Staff will be conducted prior to each rain event to ensure that all controls remain in place and any items that need to be addressed are completed prior to a rain event. Erosion and sediment controls will be assessed after each rain event and any actions needed to repair or replace a control will be addressed.

If you have any questions or require any additional information about this report or the SCL itself, please feel free to contact the Site's Environmental Manager Valorie Moore at 818-362-2145 or the Site's General Manager Chris Coyle at 818-362-2141.

Enclosures:

Drawing 1:	Constructed Northern Winterization Plan 1
Drawing 2:	Constructed Southern Winterization Plan 2
Drawing 3:	Planned Northern Winterization Plan 1
Drawing 4:	Planned Southern Winterization Plan 2
Attachment 1:	Entrance Road Improvements Construction Project Erosion Control Measures

Site Inspection Performed By:

The SCL was inspected throughout the summer of 2021 to prepare the site for the 2021-2022 wet weather season by the following staff and 3rd party consultants:

Tejinder Singh (TJ)
Environmental Specialist
Sunshine Canyon Landfill
TSingh@republicservices.com
818-362-2182

Jeremy A. Botica, P.E. 81230, M.S,
Project Manager
SWT Engineering
jab@swteng.com
805-479-3844

Sincerely,

Sunshine Canyon Landfill

General Manager

9/28/2021
Date

OPERATIONS STORAGE AREA
SEDIMENT BASIN D
SEDIMENT BASIN C
EXISTING FLARE/LFGTE PLANT
PROPERTY LINE
INTERSTATE FREEWAY 5
WOOD CHIPPINGS
TEMPORARY MAINTENANCE SHOP AREA
SEDIMENT BASIN B
WET WEATHER DECK
ACTIVE REFUSE FILLING AREA 1
REPLACE INLET GRATE
EXISTING LANDFILL GAS MAINTENANCE AREA
COUNTY OF LOS ANGELES
CITY OF LOS ANGELES

200 0 200 400 600
SCALE: 1"=200'

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- 1650 EXISTING GRADE CONTOUR
- FR FR FIBER ROLL
- SILT FENCE
- LITTER FENCE
- FLOW ARROW
- SOIL BINDER
- CLOSURE TURF
- COCONUT EROSION CONTROL BLANKET
- CEDAR WOOD CHIP COVERING

BMP's

1. CLEAN OUT SOIL FROM EARTHEN/CONCRETE BASIN
2. CLEAN OUT INLET AND PLACE A FIBER ROLL STAKED IN PLACE AROUND OPENING (SE-05)
3. CLEAN OUT V-DITCH
4. CLEAN SEDIMENT FROM PERIMETER CHANNEL
6. INSTALL FIBER ROLLS EVERY 10-VERTICAL FEET ON LEVEL CONTOUR
9. INSPECT RISER PIPE(S) AND 16 OZ/SY GEOTEXTILE WRAP, REPLACE IF DAMAGED AND PLACE COBBLE ROCK AROUND FOR PROTECTION
13. REPAIR DAMAGED CHANNEL
18. REPAIR DRAINAGE PIPING TO PERIMETER CHANNEL, CONSTRUCT SOIL ACCESS ROAD OVER PIPE PER PLAN
20. FIX DRAINAGE BERM AND SWALE TO ALLOW STORMWATER TO DRAIN TOWARDS EXISITNG INLET
21. INSTALL FILTREX ROLL AROUND THE TOE OF THE TOP DECK STOCKPILE (LIMITS PER CURRENT CONDITION)

MATCHLINE - SEE SHEET 2

DRAFT - NOT FOR CONSTRUCTION

DATE OF TOPOGRAPHY: FEBRUARY 18, 2021

NO.	REVISION DESCRIPTION	DATE

REPUBLIC SERVICES

SUNSHINE CANYON LANDFILL
14747 SAN FERNANDO ROAD
SYLMAR CA, 91342

PREPARED BY:
SWT Civil & Environmental Engineering
800 C SOUTH ROCHESTER AVENUE
ONTARIO, CALIFORNIA 91761

REGISTERED PROFESSIONAL ENGINEER JEREMY A. BOTTOM No. 81230 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF _____ DATE

SUNSHINE CANYON LANDFILL

WET WEATHER PREPAREDNESS PLAN 2021
COMPLETED NORTHERN WINTERIZATION PLAN 1

DESIGNED BY : J.A.B.	SCALE : AS SHOWN	PROJECT NO: XXXXXX
DRAWN BY : C.O.V.	DATE : 09-2021	
CHECKED BY :	DATE :	
APPROVED BY :	DATE :	SHEET 1 OF 4

Z:\PROJECTS\REPUBLIC SERVICES\SUNSHINE CANYON LANDFILL\WINTERIZATION PLANS\STORMWATER 2021\ACAD\SHEET SET\01-SCL-STORMWATER

MATCHLINE - SEE SHEET 1

COUNTY OF LOS ANGELES
CITY OF LOS ANGELES

ACTIVE REFUSE FILLING AREA 2

REPAIR ELBOW WITH CALTRANS JOINT RESTRAINT

MAINTENANCE SHOP

ENTRANCE ROAD

FIRE ROAD DRAINAGE INLET

CELL CC4B CONSTRUCTION PROJECT UNDER SEPERATE SWPPP

WATER TANK

(SLOPES ONLY)

PROPERTY LINE

SCALES AND SCALE HOUSE

LEA OFFICES

ADMIN. OFFICES

NEW LEACHATE TREATMENT PLANT

INTERMEDIATE STEP BASIN

FUTURE DIVERSION CHANNEL

TERMINAL STORMWATER RETENTION BASIN

INTERSTATE FREEWAY 5

SAN FERNANDO RD

ULTIMATE ENTRANCE IMPROVEMENT PROJECT UNDER PHASE 2 SWPPP

ULTIMATE ENTRANCE IMPROVEMENT PROJECT UNDER PHASE 1 SWPPP

SCE EASEMENT

EXISTING FLARE #1

200 0 200 400 600
SCALE: 1"=200'

LEGEND

- APPROX. PROPERTY BOUNDARY
- 1650 EXISTING GRADE CONTOUR
- FR FR FIBER ROLL
- SILT FENCE
- X LITTER FENCE
- FLOW ARROW
- SOIL BINDER
- CLOSURE TURF
- COCONUT EROSION CONTROL BLANKET
- CEDAR WOOD CHIP COVERING

BMP's

1. CLEAN OUT SOIL FROM EARTHEN/CONCRETE BASIN
2. CLEAN OUT INLET AND PLACE A FIBER ROLL STAKED IN PLACE AROUND OPENING (SE-05)
3. CLEAN OUT V-DITCH
4. CLEAN SEDIMENT FROM PERIMETER CHANNEL
5. REPAIR/REPLACE MEMBRANE LINED CHANNEL AND SANDBAG ANCHOR SYSTEM
7. CONSTRUCT DRAINAGE INLET AND DOWNDRAIN PIPE TO DRAIN TOWARDS THE PERIMETER CHANNEL
8. STEEL PLATES AND RUMBLE STRIPS LOCATED AT THE ENTRANCE/EXIT OF THE WET WEATHER DECK
10. REPAIR/CLEAN BASIN SKIMMER SYSTEM
11. CLEAN OUT ACCESS ROAD TRENCH DRAIN SYSTEM
12. CLEAN LITTER FENCE ALONG ACCESS ROAD
14. TEMPORARY CLOSURE TURF AREA
15. CLEAN/INSTALL GABION CHECK DAMS
16. CONSTRUCT EARTHEN OR CONCRETE ARIZONA CROSSING TO DRAIN ACCESS ROAD RUN-OFF TOWARDS ADJACENT CHANNELS
17. ADD COCONUT EROSION CONTROL BLANKET

DRAFT - NOT FOR CONSTRUCTION

DATE OF TOPOGRAPHY: FEBRUARY 18, 2021

NO.	REVISION DESCRIPTION	DATE

REPUBLIC SERVICES

SUNSHINE CANYON LANDFILL
14747 SAN FERNANDO ROAD
SYLMAR CA, 91342

PREPARED BY:

SWT Civil & Environmental Engineering

800 C SOUTH ROCHESTER AVENUE
ONTARIO, CALIFORNIA 91761

REGISTERED PROFESSIONAL ENGINEER JEREMY A. BOTTCHER No. 81230 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF _____ DATE

SUNSHINE CANYON LANDFILL

WET WEATHER PREPAREDNESS PLAN 2021
COMPLETED SOUTHERN WINTERIZATION PLAN 2

DESIGNED BY : J.A.B.	SCALE : AS SHOWN	PROJECT NO: XXXXXX	
DRAWN BY : C.O.V.	DATE : 09-2021		
CHECKED BY :	DATE :	SHEET 2 OF 4	
APPROVED BY :	DATE :		

Z:\PROJECTS\REPUBLIC SERVICES\SUNSHINE CANYON LANDFILL\WINTERIZATION PLANS\STORMWATER 2021\CAD\SHEET SET\02-SCL-STORMWATER

OPERATIONS STORAGE AREA

SEDIMENT BASIN D

SEDIMENT BASIN C

EXISTING FLARE/LFGTE PLANT

PROPERTY LINE

INTERSTATE FREEWAY 5

TEMPORARY MAINTENANCE SHOP AREA

OPEN BERM FOR DRAINAGE COLLECTION

SEDIMENT BASIN B

19

WET WEATHER DECK

ACTIVE REFUSE FILLING AREA 1

EXISTING LANDFILL GAS MAINTENANCE AREA

SEDIMENT BASIN A

COUNTY OF LOS ANGELES

CITY OF LOS ANGELES

200 0 200 400 600

SCALE: 1"=200'

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- 1650 EXISTING GRADE CONTOUR
- FR FR FIBER ROLL
- SILT FENCE
- X LITTER FENCE
- FLOW ARROW
- SOIL BINDER
- CLOSURE TURF
- COCONUT EROSION CONTROL BLANKET
- CEDAR WOOD CHIP COVERING

BMP's

(19) GRADE TOP DECK TO DRAIN TOWARDS PERIMETER CHANNELS TO ELIMINATE POTENTIAL PONDING

MATCHLINE - SEE SHEET 4

DRAFT - NOT FOR CONSTRUCTION

DATE OF TOPOGRAPHY: FEBRUARY 18, 2021

NO.	REVISION DESCRIPTION	DATE

REPUBLIC SERVICES

SUNSHINE CANYON LANDFILL
14747 SAN FERNANDO ROAD
SYLMAR CA, 91342

PREPARED BY:
SWT Civil & Environmental Engineering
800 C SOUTH ROCHESTER AVENUE
ONTARIO, CALIFORNIA 91761

REGISTERED PROFESSIONAL ENGINEER JEREMY A. BOTTA No. 81230 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF

DATE

SUNSHINE CANYON LANDFILL

WET WEATHER PREPAREDNESS PLAN 2021
PLANNED NORTHERN WINTERIZATION PLAN 1

DESIGNED BY : J.A.B.	SCALE : AS SHOWN	PROJECT NO: XXXXXX
DRAWN BY : C.O.V.	DATE : 09-2021	
CHECKED BY :	DATE :	
APPROVED BY :	DATE :	SHEET 3 OF 4

Z:\PROJECTS\REPUBLIC SERVICES\SUNSHINE CANYON LANDFILL\WINTERIZATION PLANS\STORMWATER 2021\ACAD\SHEET SET\03-SCL-STORMWATER

MATCHLINE - SEE SHEET 3

COUNTY OF LOS ANGELES
CITY OF LOS ANGELES

ACTIVE REFUSE FILLING AREA 2

ENTRANCE ROAD

FIRE ROAD DRAINAGE INLET

CELL CC4B CONSTRUCTION PROJECT UNDER SEPERATE SWPPP

WATER TANK

PROPERTY LINE

SCALES AND SCALE HOUSE

PROPERTY LINE

LEA OFFICES

ADMIN. OFFICES

NEW LEACHATE TREATMENT PLANT

INTERSTATE FREEWAY 5

INTERMEDIATE STEP BASIN

FUTURE DIVERSION CHANNEL

TERMINAL STORMWATER RETENTION BASIN

ENTRANCE ROAD

ULTIMATE ENTRANCE IMPROVEMENT PROJECT UNDER PHASE 2 SWPPP

SCE EASEMENT

SAN FERNANDO RD

ULTIMATE ENTRANCE IMPROVEMENT PROJECT UNDER PHASE 1 SWPPP

PROPERTY LINE

EXISTING FLARE #1

WATER TANK

200 0 200 400 600

SCALE: 1"=200'

LEGEND

- APPROX. PROPERTY BOUNDARY
- 1650 EXISTING GRADE CONTOUR
- FR FR FIBER ROLL
- SILT FENCE
- X LITTER FENCE
- FLOW ARROW
- SOIL BINDER
- CLOSURE TURF
- COCONUT EROSION CONTROL BLANKET
- CEDAR WOOD CHIP COVERING

BMP's

ALL BMP'S COMPLETED THIS SHEET (SEE SHEET 2)

DRAFT - NOT FOR CONSTRUCTION

DATE OF TOPOGRAPHY: FEBRUARY 18, 2021

NO.	REVISION DESCRIPTION	DATE

REPUBLIC SERVICES

SUNSHINE CANYON LANDFILL
14747 SAN FERNANDO ROAD
SYLMAR CA, 91342

PREPARED BY:

SWT Civil & Environmental Engineering

800 C SOUTH ROCHESTER AVENUE
ONTARIO, CALIFORNIA 91761

REGISTERED PROFESSIONAL ENGINEER JEREMY A. BOTTCHER No. 81230 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF _____ DATE

SUNSHINE CANYON LANDFILL

WET WEATHER PREPAREDNESS PLAN 2021
PLANNED SOUTHERN WINTERIZATION PLAN 2

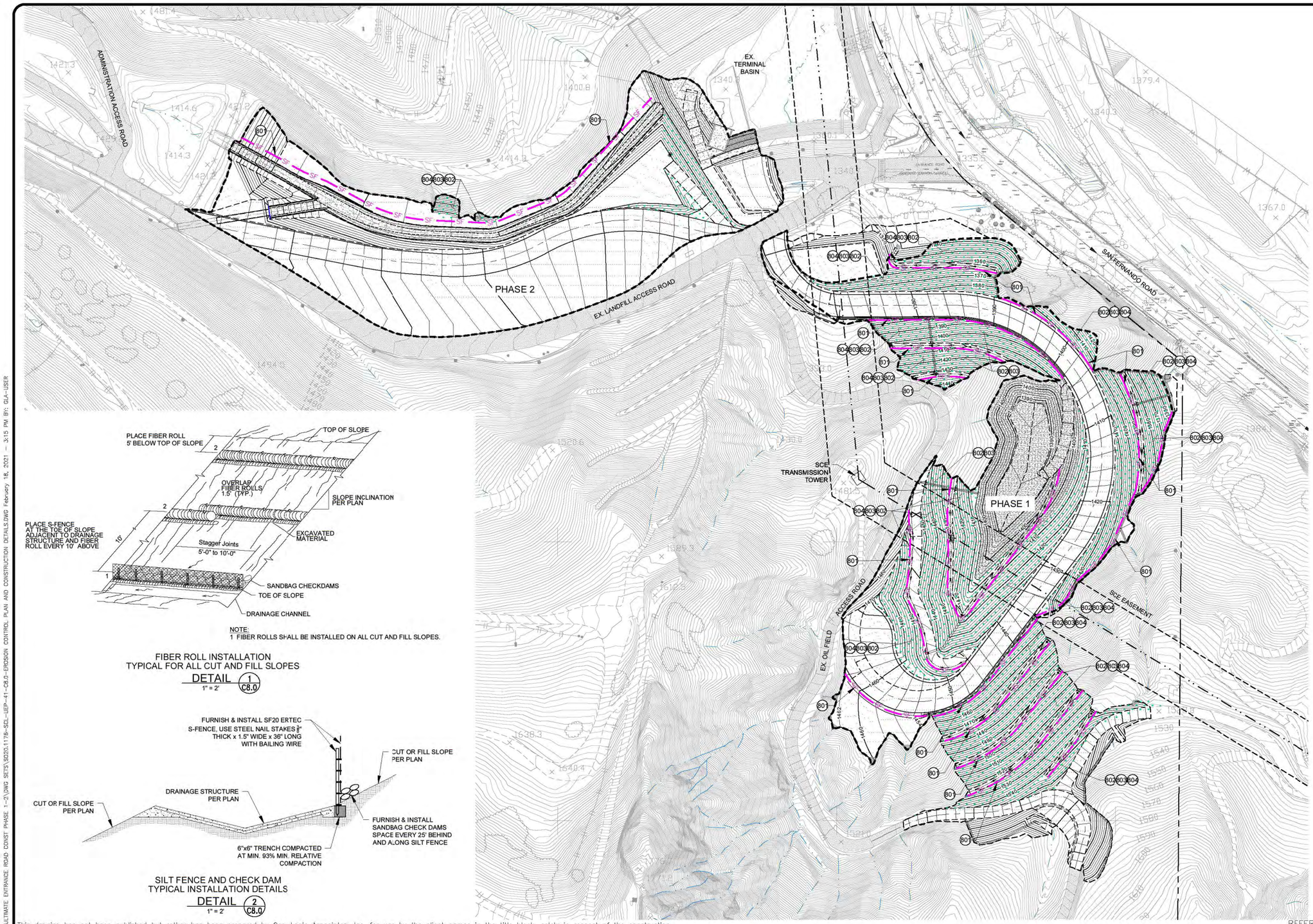
DESIGNED BY : J.A.B.	SCALE : AS SHOWN	PROJECT NO: XXXXXX
DRAWN BY : C.O.V.	DATE : 09-2021	
CHECKED BY :	DATE :	SHEET 4 OF 4
APPROVED BY :	DATE :	

Z:\PROJECTS\REPUBLIC SERVICES\SUNSHINE CANYON LANDFILL\WINTERIZATION PLANS\STORMWATER 2021\ACAD\SHEET SET\04-SCL-STORMWATER

SUNSHINE CANYON Landfill
14747 San Fernando Road
Sylmar, CA 91342

ATTACHMENT 1

ENTRANCE ROAD IMPROVEMENTS CONSTRUCTION PROJECT
EROSION CONTROL MEASURES



LEGEND

- PROPERTY BOUNDARY
- 1400 EXISTING 10 FT CONTOUR
- EXISTING 2 FT CONTOUR
- EXISTING PAVED ROAD
- EXISTING UNPAVED ROAD
- EXISTING FENCE
- EXISTING DRAINAGE
- 1400 PROPOSED 10 FT CONTOUR
- PROPOSED 2 FT CONTOUR
- GRADING HINGE
- SCE EASEMENT
- RETAINING WALL
- PHASE GRADING LIMITS
- SF SILT FENCE
- FIBER ROLL
- HYDROSEED AND JUTE NET 802 804

CONSTRUCTION NOTES

801 FURNISH & INSTALL HDPE S-FENCE WITH SANDBAG CHECKDAMS IN ACCORDANCE WITH THE APPLICABLE PROJECT SPECIFICATIONS AND DETAILS

802 FURNISH & APPLY HYDROSEED ON SIDE SLOPES IN ACCORDANCE WITH APPLICABLE PROJECT SPECIFICATIONS

803 FURNISH & INSTALL FIBER ROLL EROSION BARRIERS IN ACCORDANCE WITH THE APPLICABLE PROJECT SPECIFICATIONS AND CONSTRUCTION DETAILS

804 FURNISH & INSTALL EROSION CONTROL BLANKET (SUCH AS JUTE MAT OR APPROVED EQUAL) IN ACCORDANCE WITH THE APPLICABLE PROJECT SPECIFICATIONS AND CONSTRUCTION DETAILS

FIBER ROLL INSTALLATION
TYPICAL FOR ALL CUT AND FILL SLOPES
DETAIL 1/C8.0
1" = 2'

SILT FENCE AND CHECK DAM
TYPICAL INSTALLATION DETAILS
DETAIL 2/C8.0
1" = 2'



ISSUED FOR CONSTRUCTION

REFERENCE AERIAL TOPO BASED ON FEBRUARY 13, 2020
AERIAL SURVEY BY COOPER AERIAL SURVEYS CO.

This drawing has not been published but rather has been prepared by Geo-Logic Associates, Inc. for use by the client named in the title block, solely in respect of the construction operation, and maintenance of the facility named in the title block. Geo-Logic Associates, Inc. shall not be liable for the use of this drawing on any other facility or for any other purpose.

REV. NO.	DATE	DESCRIPTION	APPROVED BY

DATE OF ISSUE: DECEMBER 2020
DESIGNED BY: F MINA
DRAWN BY: J AMAYA
CHECKED BY: R WARNER
APPROVED BY: F MINA

DIGALERT 811

Geo-Logic ASSOCIATES
2777 EAST GUASTI ROAD
SUITE 1
ONTARIO, CA 91761
(909) 626-2282
www.geo-logic.com

REPUBLIC SERVICES
SUNSHINE CANYON LANDFILL
14747 SAN FERNANDO ROAD
SYLMAR,CA. 91342

SUNSHINE CANYON LANDFILL
ULTIMATE ENTRANCE IMPROVEMENT PROJECT

EROSION CONTROL PLAN AND CONSTRUCTION DETAILS

DWG NO. C8.0
PROJECT NO. SO20.1176

P:\SITES\SUNSHINE DYN LF\ULTIMATE ENTRANCE ROAD CONST PHASE 1-2\DWG SETS\SO20.1176-SCL-UEP-41-C8.0-EROSION CONTROL PLAN AND CONSTRUCTION DETAILS.DWG February 18, 2021 - 3:15 PM BY: GLA-USER

ATTACHMENT H

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Sunshine Canyon Landfill, Facility ID No. 49111

Odor Complaints Reported to South Coast AQMD Alleging SCL; and Notices of Violation (NOV) Summary from 2009 through November 30, 2021

Public Nuisance: South Coast AQMD Rule 402; Calif. H&S 41700

		Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Total NOVs	Total Complaints
2012	Complaints	163	104	66	129	97	55	113	140	216	171	92	139		1485
	NOVs	5	1	1	2	2	1	2	2	4	3	2	4	29	
2013	Complaints	82	108	112	112	46	62	65	97	136	176	93	72		1161
	NOVs	0	1	2	2	0	1	0	0	2	3	3	1	15	
2014	Complaints	32	37	164	122	52	28	83	81	302	223	80	278		1482
	NOVs	0	0	4	5	1	0	2	4	6	5	3	7	37	
2015	Complaints	260	119	297	60	12	41	23	126	337	370	85	65		1795
	NOVs	5	3	7	2	0	0	0	2	11	7	2	0	39	
2016	Complaints	100	188	185	181	30	74	52	85	206	193	206	59		1559
	NOVs	2	4	6	5	0	1	1	1	2	4	4	1	31	
2017	Complaints	200	254	274	116	19	10	14	30	44	27	22	18		1028
	NOVs	6	7	6	1	0	0	0	0	0	0	0	0	20	
2018	Complaints	32	18	21	9	5	9	16	6	33	21	2	36		208
	NOVs	0	0	0	0	0	0	0	0	0	0	0	1	1	
2019	Complaints	17	17	76	12	2	5	7	7	95	82	14	16		350
	NOVs	0	1	1	0	0	0	0	0	1	2	0	0	5	
2020	Complaints	29	17	12	33	98	20	23	82	105	121	18	22		580
	NOVs	0	0	0	0	2	1	0	1	3	4	0	1	12	
2021	Complaints	7	10	3	22	4	31	27	71	55	74	26			330
	NOVs	0	0	0	1	0	0	0	2	1	2	0		6	

Total R402 NOVs Issued to Date	
Total Complaints *	12,469
Total R402 NOVs Issued **	238

* Includes 2,491 Complaints from 2009, 2010, 2011

** Includes 43 NOVs from 2009, 2010, 2011

*** Includes two NOVs from 2011

NOVs for Other South Coast AQMD Rules

	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	
2012	0	0	0	0	1	0	0	1	0	2	2	0	6
Rule					1150.1			1150.1		1150.1	1150.1		
2013	0	0	0	0	0	0	0	0	0	0	0	0	0
Rule													
2014	0	0	0	0	0	0	0	0	0	0	0	0	0
Rule													
2015	0	0	0	0	0	0	0	0	0	0	0	0	0
Rule													
2016	0	0	0	0	0	0	0	0	0	0	0	0	0
Rule													
2017	0	0	0	0	0	0	0	0	0	0	0	0	0
Rule													
2018	1	0	0	0	0	0	0	0	0	0	0	0	1
Rule	3002, 431.1												
2019	0	0	0	0	0	0	0	0	0	0	0	0	0
Rule													
2020	0	0	0	0	0	0	0	0	0	0	0	0	0
Rule													
2021	0	0	0	0	0	0	0	0	0	0	0		0
Rule													

Total 1150.1 NOVs Issued***	9

* Includes 2,491 Complaints from 2009, 2010, 2011
** Includes 43 NOVs from 2009, 2010, 2011
*** Includes two NOVs from 2011

ATTACHMENT I

State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
South Coast Region
3883 Ruffin Road
San Diego, CA 92123
(858) 467-4201
www.wildlife.ca.gov

EDMUND G. BROWN, Jr., Governor
CHARLTON H. BONHAM, Director

November 27, 2017

Chris Coyle
Republic Services, Inc.
14747 San Fernando Road
Sylmar, CA 91342
CCoyle@republicservices.com

Dear Mr. Coyle:

Complete Notification of Lake or Streambed Alteration
Notification No. 1600-2017-0220-R5
Chatsworth Reservoir Wetland/Riparian Mitigation Program

On October 26, 2017, the California Department of Fish and Wildlife (CDFW) received your Notification of Lake or Streambed Alteration (Notification). On November 27, 2017, your Notification was deemed complete.

CDFW is required to submit a draft Lake or Streambed Alteration Agreement (Agreement) to you within 60 calendar days from the date the Notification is complete, if CDFW determines that an Agreement is required for the project. An Agreement will be required if CDFW determines that your project could substantially adversely affect an existing fish or wildlife resource. Therefore, CDFW has until January 26, 2018, to issue you a draft Agreement or inform you that an Agreement is not required.

Please be advised that you may not proceed with any work until CDFW executes an Agreement, informs you that an Agreement is not needed, or does not provide you with a draft Agreement within 60 days of the date your notification was deemed complete.

If you have questions regarding this letter, please contact Brock Warmuth, Environmental Scientist, at 805-962-4698 or by email at brock.warmuth@wildlife.ca.gov.

Sincerely,

Erinn Wilson
Senior Environmental Scientist (Supervisory)

State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
South Coast Region/Region 5
3883 Ruffin Road
San Diego, CA 92123
(858) 467-4201
www.wildlife.ca.gov

EDMUND G. BROWN, Jr., Governor
CHARLTON H. BONHAM, Director

January 26, 2018

Chris Coyle
Republic Services, Inc.
14747 San Fernando Road
Sylmar, CA 91342
CCoyle@republicservices.com

Subject: Notification of Lake or Streambed Alteration No. 1600-2017-0220-R5
Chatsworth Reservoir Wetland/Riparian Mitigation Program Project

Dear Mr. Chris Coyle:

As the California Department of Fish and Wildlife (Department) explained in a previous letter to you dated November 27, 2017, the Department had until January 26, 2018 to submit a draft Lake or Streambed Alteration Agreement (Agreement) to you or inform you that an Agreement is not required. The Department did not meet that date. As a result, by law, you may now complete the project described in your notification without an Agreement.

Please note that pursuant to Fish and Game Code section 1602(a)(4)(D), if you proceed with this project, it must be the same as described and conducted in the same manner as specified in the notification and any modifications to that notification received by the Department in writing prior to November 27, 2017. This includes completing the project within the proposed term and seasonal work period and implementing all avoidance and mitigation measures to protect fish and wildlife resources specified in the notification. If the term proposed in your notification has expired, you will need to re-notify the Department before you may begin your project. Beginning or completing a project that differs in any way from the one described in the notification may constitute a violation of Fish and Game Code section 1602.

Also note that while you are entitled to complete the project without an Agreement, you are still responsible for complying with other applicable local, state, and federal laws. These include, but are not limited to, the state and federal Endangered Species Acts and Fish and Game Code sections 5650 (water pollution) and 5901 (fish passage).

Finally, if you decide to proceed with your project without an Agreement, you must have a copy of this letter and your notification with all attachments available at all times at the work site. If you have any questions regarding this matter, please contact Erinn Wilson at (562) 342-7172 or Erinn.Wilson@wildlife.ca.gov

Sincerely,

Erinn Wilson
Senior Environmental Scientist (Supervisory)

ATTACHMENT J

Los Angeles Department of Water & Power

ERIC GARCETTI
Mayor

Commission
MEL LEVINE, *President*
WILLIAM W. FUNDERBURK JR., *Vice President*
JILL BANKS BARAD
CHRISTINA E. NOONAN
AURA VASQUEZ
BARBARA E. MOSCHOS, *Secretary*

DAVID H. WRIGHT
General Manager

June 13, 2017

Ms. Patti K. Costa, P.E.
Environmental Manager
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342

Dear Ms. Costa:

This letter is to request that Republic authorize its consultant, JMA, to conduct additional studies as requested by the Native American Consultation survey findings. As discussed in our conference call on May 31, 2017, due to the request from some Tribes for additional studies, Republic/JMA will perform the requested additional studies, with permission from the Los Angeles Department of Water and Power (LADWP).

JMA will conduct additional studies on some or all of the archaeological sites in the Chatsworth Mitigation Project Area (Project Area), including additional survey, testing, and data recovery. There should be monitoring during of all ground-disturbing activity related to the project, and, to the extent possible, Native American tribes that specifically requested that their Tribe be involved with the monitoring should be included in the plan.

LADWP gives Republic permission to perform additional archaeological studies to include Tribes that request to be involved in the monitoring. Additionally, LADWP will allow tribal members who request to collect plants from the Project Area, to do so, subject to the scheduling of appointments and the availability of resources to provide access to the site.

If you have any questions regarding this matter, please contact Ms. Julie Van Wagner, Environmental Supervisor at julie.vanwagner@ladwp.com or me at heidi.hiraoka@ladwp.com.

We look forward to continue working with you on this project.

Sincerely,

Heidi HK Hiraoka
Manager of Property Management

Putting Our Customers First

111 N. Hope Street, Los Angeles, California 90012-2607 *Mailing Address:* Box 51111, Los Angeles, CA 90051-5700
Telephone (213) 367-4211 www.LADWP.com

bc: Julie Van Wagner
Chuck Holloway
Mark Sedleck

June 13, 2017

Ms. Patti K. Costa, P.E.
Environmental Manager
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342

Dear Ms. Costa:

This letter is to request that Republic authorize its consultant, JMA, to conduct additional studies as requested by the Native American Consultation survey findings. As discussed in our conference call on May 31, 2017, due to the request from some Tribes for additional studies, Republic/JMA will perform the requested additional studies, with permission from the Los Angeles Department of Water and Power (LADWP).

JMA will conduct additional studies on some or all of the archaeological sites in the Chatsworth Mitigation Project Area (Project Area), including additional survey, testing, and data recovery. There should be monitoring during of all ground-disturbing activity related to the project, and, to the extent possible, Native American tribes that specifically requested that their Tribe be involved with the monitoring should be included in the plan.

LADWP gives Republic permission to perform additional archaeological studies to include Tribes that request to be involved in the monitoring. Additionally, LADWP will allow tribal members who request to collect plants from the Project Area, to do so, subject to the scheduling of appointments and the availability of resources to provide access to the site.

If you have any questions regarding this matter, please contact Ms. Julie Van Wagner, Environmental Supervisor at julie.vanwagner@ladwp.com or me at heidi.hiraoka@ladwp.com.

We look forward to continue working with you on this project.

Sincerely,

Heidi HK Hiraoka
Manager of Property Management

January 31, 2018

Dear Tribal Chairperson,

As the Archaeological Principal Investigator on the Chatsworth Reservoir Wetland and Riparian Mitigation Project, I am following up with an update regarding the results of Native American Consultation and the subsequent Phase II investigation for the sites in the project APE. In March 2017, I sent to Tribes the document titled *Initial Study and Draft Mitigated Negative Declaration for Chatsworth Reservoir Wetland and Riparian Mitigation Program* as well as the draft of our report documenting the archival research and the results of our pedestrian survey titled, *Phase I Cultural Resources Survey for the Chatsworth Reservoir Wetland Riparian Restoration Project, Los Angeles County, California.* My accompanying letter requested consultation, solicited input and welcomed any comments or questions from Tribes regarding cultural resources on this project. In April I followed up with phone calls and emails to tribes.

Gratefully, I received substantive comments and input from a number of Tribes which I compiled and forwarded to the property owner, the Los Angeles Department of Water and Power (LADWP). Summarizing the responses, the substantive comments primarily concerned three issues. 1) A number of Tribes requested that additional studies be conducted on some or all of the archaeological sites in the Chatsworth Area of Potential Effect (APE). Comments specifically mentioned additional survey, testing, and data recovery. 2) Virtually all Tribes commented that there should be Native American monitoring of all ground-disturbing activity related to the project and a few Tribes specifically requested that their Tribe be involved with the monitoring. 3) One Tribe requested that tribal members be allowed to gather plants from the Chatsworth Reservoir site for traditional purposes.

In the subsequent discussions in response to the Native American comments, The LADWP authorized the mitigation contractor, Republic Services, to commission additional investigation of the archaeological sites, Tribal monitoring of ground disturbing activity, and for tribal members to collect traditional plants. In August-September 2017, John Minch and Associates Inc. (JMA) conducted the Phase II investigations with the assistance and participation of tribal members. Attached is the recently-completed report on these investigations. Please review the draft report and I welcome and appreciate any comments or feedback. And if I can answer any questions please let me know.

Sincerely,

Ray Corbett, Ph.D., RPA
Principal Archaeologist
JMA

2620 Yucca Dr.
Camarillo, CA 93012
805-491-3062
rcorbett@jma-ca.com

November 29, 2016

Patti Costa
Sunshine Canyon Landfill
Republic Services, Inc.
14747 San Fernando Road
Sylmar, CA 91342

Subject: Update on Archaeological Services Performed for Chatsworth Reservoir Mitigation MND Addendum.

Dear Patti Costa,

As requested, John Minch and Associates, Inc. (JMA) is conducting an investigation to identify and document cultural resources in the proposed project area for the Chatsworth Reservoir Mitigation Project and prepare a report to satisfy requirements in compliance with the California Environmental Quality Act (CEQA). JMA staff performed the proposed archaeological services Tasks 1-3 on November 17th-18th. The tasks included: **Task 1)** a comprehensive archaeological records and literature search of a One-mile radius of the project area in order to identify known cultural resources and the potential impacts that may result from construction activities; **Task 2)** a pedestrian survey of the project area; **Task 3)** the recordation two newly discovered archaeological site locations that were located during the original 2010 field survey, and the recordation of a new site that was located during the November 2016 survey.

The results of the pedestrian survey include the identification of a new site location, and three isolated artifacts. All of the identified site locations are outside of the footprint of the mitigation area and can be avoided. However, the results of the Sacred Lands File check performed for Task 1 indicated a change in status of Sacred Lands within the Chatsworth Reservoir Mitigation Project area. The Native American Heritage Commission has informed us that the "Sacred Lands Inventory has records of sacred sites within the Chatsworth Reservoir APE". The items contained therein are confidential and exempt from the California Public Records Act pursuant to California Government Code Section 6254.10. Therefore information regarding the nature and location of these sacred sites must be obtained through direct consultation with Native Americans. Such information would then be used to assess the potential effects of the mitigation project on these sacred sites pursuant to CEQA and California Assembly Bill No. 52. In our opinion, due diligence addressing this issue would need to be exercised before a Mitigated Negative Declaration regarding cultural resources could be asserted.

JMA will continue progress on the additional two Tasks: **Task 4)** production of a comprehensive narrative report for review, and provide final revisions for the

Orange County
26623 Sierra Vista
Mission Viejo, CA 92692
Phone: 949-367-1000
www.jma-ca.com

Addendum; and as needed, **Task 5)** participation in any necessary meetings and/or conference calls during the remaining course of the project.

Respectfully submitted,



Edwin Minch
Managing Principal

Orange County
26623 Sierra Vista
Mission Viejo, CA 92692
Phone: 949-367-1000
www.jma-ca.com

To: Republic Services and LADWP

From: Ray Corbett, JMA

Date: March 17, 2018

Subject: Native American Consultation regarding Chatsworth Reservoir project

After completion of the draft report on the results of Phase II Investigations at the Chatsworth Reservoir APE, I circulated the draft report (attached) along with the consultation letter (attached) among our consulting Native American Tribes for this project. Subsequently I followed up with phone calls to the respective Tribal representatives. All of the comments were positive and each tribe expressed satisfaction with the Phase II Investigation program and the ensuing draft report. All of the comments except one came through phone conversations. The single written response is attached.

I will finalize the Phase II Investigation report and submit it to the South Central Coastal Information Center of the California Historical Resource Information System located at California State University, Fullerton.

This completes the Native American consultation process for this phase of the project. In light of this, it would be appropriate to resurrect work on the MND Addendum.

If I can answer any questions please let me know.

Sincerely,

Ray Corbett, Ph.D., RPA
Principal Archaeologist
JMA

2620 Yucca Dr.
Camarillo, CA 93012
805-491-3062
rcorbett@jma-ca.com

February 27, 2018

Dear Dr. Corbett,

Thank you for providing the draft report on the Chatsworth Reservoir Phase II Investigations. After review of the document provided by your office I would like to commend John Minch & Associates for generating an excellent report on the project. I am satisfied with the results of the Phase II archaeological field work performed in response to Tribal concerns surrounding the proximity of known prehistoric archaeological sites and the project's APE.

The Gabrielino Tongva Nation will look forward to continuing consultation and participation as the Chatsworth Reservoir Wetland and Riparian Mitigation Project progresses. As discussed in previous conversations, we look forward in providing tribal cultural resource monitoring when the need arises.

Sincerely,

Sam Dunlap
Cultural Resource Director
Gabrielino Tongva Nation
(909) 262-9351 cell

Tribal responses to a request for Native American Consultation regarding the *Initial Study and Draft Mitigated Negative Declaration for Chatsworth Reservoir Wetland and Riparian Mitigation Program* and *Phase I Cultural Resources Survey for the Chatsworth Reservoir Wetland Riparian Restoration Project.*

Dear Dr. Corbett,

In response to the Chatsworth Reservoir Wetland and Riparian Mitigation Project. After reading the Phase 1 Cultural Resource Survey, I strongly feel that the disturbance to this area would affect cultural resources along with various plant communities. As documented, there are sensitive sites, the water that has pushed through at one time could have very well carried any items of significance.

Thank you for you conscious effort in supporting Cultural Resources.

Sincerely,

Eleanor Arellanes Fishburn
Barbareno/Ventureno Band of Mission Indians
PO Box 5687
Ventura, CA 93005

Notes from phone conversation with Mr. Anthony Morales, Chairperson, Gabrielino/Tongva San Gabriel Band of Mission Indians.

The fact that there was a reservoir there indicates there was water and this means there would be villages in the area, so we consider this to be important to our tribe and we, (the Gabrielino/Tongva San Gabriel Band of Mission Indians) want to be involved with any monitoring regarding this project.

Dr. Corbett,

The SYBCI Elders will not be getting involved in this project, but would like to make some comments about the protection and preservation of cultural resources;

1. They agree that additional survey and studies need to take place in and around the area are in order to better categorize the sites that do exist within the APE;

2. The survey plan for this project needs to be completed in consultation with tribes and agreed to by those involved;

3. Native American advisor/consultant need to be present during the surveys, as well as during any ground disturbing activities;

4. A plan needs to be created for long term preservation, in consultation with tribes. because once completed, this will more than likely become a refuge for wildlife and with that comes folks that interested in nature, i.e. bird watching, walking, plant viewing, etc.;

5. If at all possible, it would be nice to have available for tribes to possibly gather in the area plants that they would traditionally use.

These would be the comments and suggestions for this area. If there is no response from any of tribes, please advise and I will inform the Elders to see if they may want me to participate based on non-involvement by the tribes.

I look forward to hearing from you.

Freddie Romero
Cultural Resources Coordinator
SYBCI Elders Council
805-688-7997 X4109
805-403-2873

Notes from phone conversation with Mr. Robert Dorame, Chairperson, Gabrielino Tongva Indians of California Tribal Council. In the course of our phone conversation he said that he believed that the area was "highly sensitive" and that any ground disturbing activity be monitored by Native Americans. He went on to say that the monitoring should be rotated among Tribes. He informed me that he would not submit written comments (because of his busy schedule), but that he wanted what he conveyed to me by phone to serve as his Tribe's comments.

Dear Dr. Corbett,

Thank you for contacting the Gabrielino Tongva Nation for the purpose of Native American consultation regarding the Chatsworth Reservoir Project. The project area lies within the traditional tribal territory of the Gabrielino Tongva Nation and the following comments are intended to express the concerns of our Tribe.

After review of the material provided by your office I am of the opinion that further archaeological investigation is needed to properly assess the recent discovery of the archaeological sites found within the project area by JMA during their site survey. I believe archaeological data recovery is warranted given the history of the project area.

As the project area is within our tribal territory the Gabrielino Tongva Nation is culturally affiliated to any prehistoric cultural items that may be discovered during new archaeological testing as well as any archaeological items already recorded within the project area and its vicinity.

The Gabrielino Tongva Nation also requests that a Native American monitor from our tribal group be present during all phases of archaeological testing and future subsurface construction activity associated with the Chatsworth Reservoir project. The Native American monitor will be a documented tribal member of the Gabrielino Tongva Nation.

I hope that my comments and concerns are helpful to this consultation process. Please feel free to contact me as this project moves forward.

Sincerely,

Sam Dunlap
Cultural Resource Director
Gabrielino Tongva Nation
909-262-9351 cell

Attn: Dr. Corbett, JMA
Thank you for providing the Torres Martinez Desert Cahuilla Indians with the notifications of your projects. However after having reviewed the information you have been providing and the locations of your projects it is apparent that you are out of our traditional use area. Therefore we wish to defer projects to other tribes closer to the area.

Respectfully,
Michael Miralez
Cultural Resource Coordinator
Torres-Martinez DCI
Office: 760-397-0300 Ext: 1213
Email: mmirelez@tmdci.org

The Gabrielino Band of Mission Indians – Kizh Nation communicated through a phone conversation that they wanted subsurface testing of the archaeological sites within the APE and that all ground disturbing activity be monitored by a Native American representative. Furthermore, by email the Tribe provided the following:

“The Chatsworth Reservoir area is definitely in Kizh Tribal Territory. Bernice Johnston (1962) identifies the Chatsworth area as in Gabrielino (Kizh) territory and states as to its sensitivity:

> "Many a modern community in the San Fernando Valley can boast of an Indian predecessor. From Tujunga to Chatsworth archeological sites (i.e. village sites) abound. . ."(Johnston 1962:125).

McCawley (1996) also includes the Chatsworth area as Gabrielino (Kizh) territory and specifically about Chatsworth Reservoir:

> "Melendrez (Kizh informant) reported to Harrington that a rancheria, or Indian community, existed near Chatsworth Reservoir. 'Melendrez v'd [volunteered]. . . that one long rancheria extended from where we were [probably northwest of Chatsworth Reservoir] a couple of miles to the

> Triunfo ward [southwestward] of where we were and that fragments of shell, etc., are picked up in this whole stretch.' According to Harrington, Melendrez implied that 'the name of that rancheria was El Escurpion de las Salinas'. . ."”

Respectfully submitted,



Ray Corbett, Ph.D., RPA
Principal Archaeologist
JMA
April 28, 2017

ATTACHMENT K

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

GAIL FARBER, Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE
REFER TO FILE: EP-5

May 4, 2016

Mr. Rob Sherman, General Manager
Republic Services, Inc.
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342-1021

SUNSHINE CANYON CITY/COUNTY LANDFILL
CONDITIONAL USE PERMIT NO. 00-194-(5)
AUTHORIZATION TO IMPORT CLEAN DIRT FROM THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Dear Mr. Sherman:

We have reviewed your request dated July 28, 2015, and subsequent revision dated October 9, 2015, to import clean dirt from the Los Angeles County Flood Control District (District), beginning on April 2017, and ending on December 2021. Your request for importation of clean dirt for beneficial use at the Sunshine Canyon Landfill is hereby approved pursuant to Conditional Use Permit 00-194-(5), Conditions 1.D and 23.E, which requires Republic Services to obtain prior authorization from the Department of Public Works prior to importation and acceptance of clean dirt material for beneficial use and disposal at the site.

This authorization is being granted in order to allow the landfill to import soil for the site's daily and intermediate soil cover needs and other beneficial uses. Based on your submittal, the volume of on-site soil stockpile will be exhausted by October 2019 and importation of soil is necessary for effective landfilling operations at the site. This approval is subject to the following conditions:

1. The quantity of soil to be imported shall not exceed the following:

    - 2,200 tons per day average or 13,200 tons per week and
    - 2.5 million tons total for a 5-year duration of the project

2. The quantity of soil imported (tonnage) shall be included in the total permitted weekly tonnage capacity of materials (Solid Waste, Inert Debris and Beneficial Use Materials), which is limited to 72,600 tons per week. Pursuant to the CUP, in no event shall the daily tonnage of all materials received by the Landfill exceed 12,100 tons on any given day, six working days per week.

3. Limited only to Clean Dirt and sediments from the District

4. The soil importation schedule shall be from Monday to Friday, between the hours of 7:00 am to 6:00 pm.

5. The imported soil shall only be used for on-site daily and intermediate soil cover needs and other beneficial uses at the site.

6. All incoming and departing truck routes associated with this soil importation project shall be limited to Roxford Street, Sepulveda Boulevard and San Fernando Road.

7. The imported soil shall be placed adjacent to the working face area for immediate usage in a designated location, or, if soil is not needed at the working face, it will be taken to a designated stockpile location as defined in the Joint Technical Document. Additionally, all stockpile areas shall be vegetated if left unused longer than 180 days.

8. The operator shall comply with the currently approved Fugitive Dust Control Program to minimize dust resulting from the importation project

9. The operator shall follow the approved Waste Load Checking Program and the Waste Discharge Requirements issued by the California Regional Water Quality Control Board to ensure the imported soil's quality is acceptable under this program and permit.

10. Republic shall keep records of all materials received from the District including quantities accepted, stockpiled, beneficially used, and disposed of.

11. The operator shall submit a monthly summary of these records on an annual basis, including a stockpile location map, to Public Works' Environmental Programs Division at the end of each calendar year for the duration of this project.

12. The Director of Public Works, at his/her sole discretion may rescind or terminate this approval if the Department determines that any of the conditions of approval has been violated and/or that such termination is necessary to protect public health, safety, welfare, and/or the environment.

If you have any questions, please contact me at (626) 458-3553, Monday to Thursday, 7:00 a.m. to 5:30 p.m.

Very truly yours,

GAIL FARBER
Director of Public Works

MARTIN AIYETIWA
Senior Civil Engineer
Environmental Programs Division

DN:jl
P:\Sec\Sunshine Canyon Landfill Importation of Soil from FCD

cc: Sunshine Canyon Landfill Local Enforcement Agency (Gerry Villalobos, David Thompson)
Department of Regional Planning (Maria Masis, Tim Stapleton)
Department of Public Health (Gerry Villalobos)
City of Los Angeles Department of City Planning (Nicholas Hendricks, Ly Lam)
Sunshine Canyon Landfill Technical Advisory Committee (Lisa Webber, Jon Sanabria)
Sunshine Canyon Landfill Community Advisory Committee (Wayde Hunter, Gale Gunderson, Joe Vitti)
Members of the Los Angeles County Solid Waste Management Committee/Integrated Waste Management Task Force
County of Los Angeles Public Works, Water Resources Division (Chris Stone, Ken Zimmer)

ATTACHMENT L

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

MARK PESTRELLA, Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460
IN REPLY PLEASE
REFER TO FILE: EP-5

February 7, 2018

Mr. Chris Coyle, General Manager
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342-1021

Dear Mr. Coyle:

SUNSHINE CANYON CITY/COUNTY LANDFILL
CONDITIONAL USE PERMIT NO. 00-194-(5)
PROPOSED SURVEY MONUMENT AND GRADING LIMITS

We have completed our review of Republic Services' request for approval of proposed survey monument and grading limits for the Sunshine Canyon Landfill submitted on September 12, 2017. The Proposed Survey Monument Plan and Grading Limit is in alignment with Revised Exhibit A-2 approved by the Department of Regional Planning on December 5, 2017, and is associated with the SCE Power Pole Realignment Project and CC4 Stability Buttress Grading Project at the Sunshine Canyon Landfill.

The following drawings are hereby approved:

- Sunshine Canyon Landfill Drainage and Grading Limits – Revision Number 4 (see enclosed) approved on February 1, 2018. This plan is also referred to as Survey Monument Plan and Grading Limits.

If you have any questions, please contact Mr. Martin Aiyetiwa at (626) 458-3553, Monday to Thursday, 7 a.m. to 5:30 p.m.

Very truly yours,

MARK PESTRELLA
Director of Public Works

MARTIN AIYETIWA
Senior Civil Engineer
Environmental Programs Division

VT:jl
P:\Sec\DPW Approval Letter - Proposed Survey Monument and Grading Limit for CC4 Stability Buttress.docx

Enc.

cc: Sunshine Canyon Landfill Local Enforcement Agency (Maurice Pantoja, Dorcas Hanson-Lugo, David Thompson)
Department of Regional Planning (Maria Masis, Tim Stapleton)

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION
APPROVED
FOR REVISION OF GRADING LIMITS AND SURVEY MONUMENTS

NO ADDITIONS OR ALTERATIONS OF THE SUBJECT FACILITY (IES) SHALL BE MADE WITHOUT THE WRITTEN PERMISSION OF THE DEPT. OF PUBLIC WORKS. THIS CLEARANCE DOES NOT PERMIT OR APPROVE THE VIOLATIONS OF THE PROVISIONS OF ANY ORDINANCE OR STATUE.

BY _____ DATE February 1, 2018

LEGEND:

- COUNTY LINE
- PROPERTY BOUNDARY
- (100) EXISTING GROUND SURFACE CONTOUR EL, FEET
- PROPOSED GRADING LIMIT
- APPROVED GRADING LIMIT
- APPROVED LIMITS OF REFUSE PER 2002 JTD
- LIMITS OF LANDFILL PER EXHIBIT "A" (ALTERNATE) OF CUP EIR-SEQUENCE 2, DRAWING 3A FEB 1991
- EXISTING LINER
- SUB-UNIT LINER BOUNDARY
- PERMIT LINER LIMIT
- P-XX APPROVED GRADING LIMIT SURVEY MONUMENT OF AUGUST 20, 2012
- P-XX PROPOSED GRADING LIMIT SURVEY MONUMENT
- R-XX APPROVED REFUSE LIMITS SURVEYING MONUMENTS AS-BUILT

APPROVED GRADING LIMIT
PROPOSED GRADING LIMIT
PHASE II-C
PHASE IV-3
PHASE IV-A PART 2
PHASE V-A
PHASE V-B
PHASE IV-A PART 1
PHASE II
PHASE I
PHASE IV-A PART 3
PHASE III-A
PHASE III-B
CELL A 2D
CELL A 2C
CELL A 2E
CELL A 2A,B
CELL A PART 1
CELL A PART 1C
CC-1
CC-2
CC-3A PART 1
CC-3A PART 2A
CC-3A PART 2B
CC-3B PART 1A
CC-4 PART 1
COUNTY OF LOS ANGELES
CITY OF LOS ANGELES
9' O/S
51.2' O/S
140' O/S
80' O/S
25' O/S

SEE ENLARGED AREA ON SHEET 2

APPROVED REFUSE LIMITS SURVEYING MONUMENTS AS-BUILT INFORMATION

OFFSET	NAME	NORTHING	EASTING	NOTE
	R-1			1
	R-2			1
	R-1-2	4232695.76	4132743.54	
	R-3	4232717.91	4132650.77	
	R-4	4232732.24	4132546.26	
	R-5	4232975.52	4132804.66	
	R-6	4233054.64	4132668.48	
	R-7	4233180.08	4132549.41	
	R-8	4233237.33	4132419.73	
	R-9	4233309.56	4132481.98	
	R-10	4233714.90	4132312.00	2
	R-11	4233834.76	4132188.93	3
9' O/S	R-11	4233841.47	4132194.77	
	R-12	4233882.20	4132118.16	3
51.2' O/S	R-12	4233920.15	4132152.55	
	R-13	4233968.27	4132059.72	2
	R-14	4234112.10	4131837.12	2
	R-15	4234247.72	4131496.20	2
	R-16	4234324.90	4131103.21	2
	R-17	4234009.93	4130874.15	2
	R-18	4234021.53	4130682.83	
	RP-19	4234127.83	4130342.94	
	RP-20	4234367.56	4129861.53	
	RP-21	4234785.04	4129313.20	
	RP-22	4234505.64	4129196.76	
	RP-23	4234085.89	4129111.85	
	R-24	4233654.74	4129614.13	
	R-25	4233418.77	4129724.03	
	RP-25	4234352.20	4128301.02	
	R-26	4232513.97	4129493.04	
	R-27	4232009.20	4129516.04	
	R-28	4231817.21	4129650.61	
	R-29	4231124.82	4129897.13	
	R-30	4231419.27	4130231.68	
	R-31	4231446.86	4130402.09	
	R-32	4230916.16	4130252.46	
	R-33	4230698.39	4130408.08	
	RP-34	4230510.52	4130320.44	4
140' O/S	RP-34	4230650.55	4130320.45	

NOTE:

1. MONUMENTS R-1 AND R-2 ARE NOT APPLICABLE TO THE CITY/COUNTY LANDFILL. THEY HAVE BEEN REPLACED BY MONUMENT R-1-2.
2. MONUMENTS P-5, 10 AND 11 AND MONUMENTS R-10, 13, 14, 15, 16 AND 17 WERE RESET DUE TO DISTURBANCE DURING PHASE V-A CONSTRUCTION ACTIVITIES.
3. MONUMENTS R-11 AND R-12 ARE IDENTIFIED BY OFFSET MONUMENTS, SINCE THEY ARE LOCATED ON THE PHASE V-A LINER.
4. MONUMENTS RP-34, P-40, AND P-14R ARE IDENTIFIED BY OFFSET MONUMENTS, DUE TO TERRAIN AND PRESENCE OF POISON OAK IN THE AREA.

APPROVED GRADING LIMIT SURVEY MONUMENTS AS OF AUGUST 20, 2012. APPROVED BY LACDPW ENV PROGRAMS DIV.

OFFSET	POINT NO.	NORTHING	EASTING	NAME	NOTE
	1001	4233147.08	4133244.43	P-1	
	1002	4233417.57	4133239.26	P-2	
	1003	4233500.41	4133158.76	P-3	
	1004	4233448.78	4133025.59	P-4	
	1005	4233613.36	4132839.61	P-5	2
	1006	4233711.09	4132719.67	P-6	
	1007	4233830.47	4132520.36	P-7	
	1008	4233971.68	4132338.85	P-8	
	1009	4234065.71	4132187.65	P-9	
	1010	4234127.35	4132008.20	P-10	2
	1011	4234361.69	4131580.44	P-11	2
	1012	4234573.63	4131168.28	P-12R	
	1013	4234724.10	4130868.46	P-13R	
	1040	4234751.15	4130501.62	P-14R	4
25' O/S	1014	4234763.66	4130523.35	P-14R	
	1015	4234683.40	4130372.79	P-15	
	1016	4234445.86	4130266.91	P-16	
	1017	4234127.83	4130342.94	RP-19	
	1018	4234367.56	4129861.53	RP-20	
	1019	4234785.04	4129313.20	RP-21	
	1020	4234505.64	4129196.76	RP-22	
	1021	4234085.89	4129111.85	RP-23	
	1022	4234563.47	4128834.22	P-24	
	1023	4234352.20	4128301.02	RP-25	
	1024	4234119.82	4128491.36	P-26	
	1025	4233840.15	4129355.03	P-27	
	1026	4233494.16	4129271.72	P-28	
	1027	4233078.19	4128295.46	P-29	
	1028	4232872.78	4128300.13	P-30	
	1029	4232831.51	4128659.85	P-31	
	1030	4232409.34	4129009.32	P-32	
	1031	4232230.74	4128804.15	P-33	
	1032	4232058.70	4128992.14	P-34	
~~80' O/S~~	~~1033~~	~~4231982.31~~	~~4129441.00~~	~~P-35~~	
	1034	4231808.42	4129363.6	P-36	
~~80' O/S~~	~~1035~~	~~4231542.52~~	~~4129729.96~~	~~P-37~~	
~~80' O/S~~	~~1036~~	~~4231077.89~~	~~4129533.57~~	~~P-38~~	
~~80' O/S~~	~~1037~~	~~4230867.94~~	~~4129810.49~~	~~P-39~~	
~~80' O/S~~	~~1038~~	~~4230684.71~~	~~4130170.52~~	~~P-40~~	~~4~~
140' O/S	1039	4230650.55	4130320.45	RP-34	

NOTE: MONUMENTS P-35, P-37, P-38, P-39 AND P-40 WERE REMOVED DURING THE CONSTRUCTION OF THE SOUTHERN CALIFORNIA EDISON CONSTRUCTION PROJECT AND REPLACED BY MONUMENTS P-35A, P-37A, P-38A, P-38B, P-38C, P-39A AND P-40A.

PROPOSED GRADING LIMIT SURVEY MONUMENTS AS OF MARCH 28, 2016.

OFFSET	POINT NO.	NORTHING	EASTING	NAME
	10223	4232025.09	4129323.34	P-35A
	10224	4231571.73	4129688.19	P-37A
	10225	4231126.92	4129561.30	P-38A
	~~10226~~	~~4230814.67~~	~~4129309.19~~	~~P-38B~~
	~~10221~~	~~4230644.24~~	~~4129288.09~~	~~P-38C~~
	10219	4230468.71	4129758.66	P-39A
	10218	4230453.48	4129921.05	P-40A
	10220	4230254.98	4129774.77	P-41

NOTE: MONUMENTS P-38B AND P-38C WERE SET ON MARCH 29, 2016. THESE MONUMENTS WILL BE REMOVED DURING CONSTRUCTION OF THE CC-4 STABILITY BUTTRESS.

PROPOSED GRADING LIMIT SURVEY MONUMENTS AS OF MAY 25, 2017.

OFFSET	POINT NO.	NORTHING	EASTING	NAME
	10230	4231081.18	4129366.48	P-38E
	10231	4230699.99	4128850.01	P-38B-R
	10232	4230315.8	4128889.98	P-38F
	10233	4230262.78	4129003.58	P-38C-R
	10234	4230257.81	4129495.81	P-38D
	10235	4230371.64	4130019.5	P-40B
	10236	4230252.18	4130032.73	P-42

N

200' 0' 100' 200'

SCALE: 1" = 200'

BENCHMARK:
CITY OF L.A. B.O.E. PRECISE BENCHMARK NO. 04-00871 SPK IN NE CURVE SAN FERNANDO RD., 1.5FT SE/O C/L PROD BALBOA BLVD.
ELEVATION - 1306.617 FEET (2000 ADJ, NAVD 1998 DATUM)

SURVEYOR'S STATEMENT OF COMPLIANCE UPON SETTING OF MONUMENTS

ON May 23, 2017 OUR FIELD SURVEYORS SET PERMANENT SURVEY MONUMENTS AT THE SUNSHINE CANYON LANDFILL FOR THE PURPOSE OF MONITORING BY LOS ANGELES COUNTY DPW. MONUMENT LOCATIONS WERE DETERMINED ACCORDING TO THE HARD COPY PROVIDED BY GEO-LOGIC ASSOCIATES PER THEIR DRAWING ENTITLED "SUNSHINE CANYON LANDFILL, SYLMAR, CALIFORNIA, PROPOSED SURVEY MONUMENT PLAN" DATED NOVEMBER 16, 2016.

MONUMENTS SET ACCORDING TO THE ABOVE REFERENCED DOCUMENTS ARE AS FOLLOWS:

- FIFTEEN (15) TWO-INCH IRON PIPES WITH BRASS CAPS EMBEDDED IN FAST CURE CONCRETE
- EACH CAP IS STAMPED WITH THE FOLLOWING MARKINGS: "SCCEL" WITH A "P" OR "RP" FOLLOWED BY NUMERICAL VALUES PER THE DRAWING SHOWN HEREON.

MIKE LORSE
PLS 8995
VERTEX SURVEYING, INC.

DATED May 25, 2017

PROFESSIONAL LAND SURVEYOR MIKE LORSE No. PLS 8995 STATE OF CALIFORNIA

EXISTING TOPOGRAPHY BASED ON MARCH 1, 2017 AERIAL SURVEY BY COOPER AERIAL

This drawing has not been published but rather has been prepared by Geo-Logic Associates, Inc. for use by the client named in the title block, solely in respect of the construction operation, and maintenance of the facility named in the title block. Geo-Logic Associates, Inc. shall not be liable for the use of this drawing on any other facility or for any other purpose.

REV. NO.	DATE	DESCRIPTION	APPROVED BY
REV 1	08/14/15	ORIGINAL	R JOHNSON
REV 2	03/30/16	SET POINTS	R JOHNSON
REV 3	11/16/16	PROPOSED MONUMENTS FOR CC-4	R JOHNSON
REV 4	05/02/17	ADDRESSING COMMENTS FROM COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS	R JOHNSON
REV 5	08/01/17	ADDRESSING COMMENTS FROM COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS	R JOHNSON

DATE OF ISSUE: AUGUST 2017
DESIGNED BY: R JOHNSON
DRAWN BY: J AMAYA
CHECKED BY: C BARRETT
APPROVED BY: R JOHNSON

DIGALERT 811

Geo-Logic ASSOCIATES
2777 EAST GUASTI ROAD
SUITE 1
ONTARIO, CA 91761
(909) 626-2282
www.geo-logic.com

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER A. BARRETT C 78076 EXP. 9/30/17 CIVIL STATE OF CALIFORNIA
8/7/17

REPUBLIC SERVICES

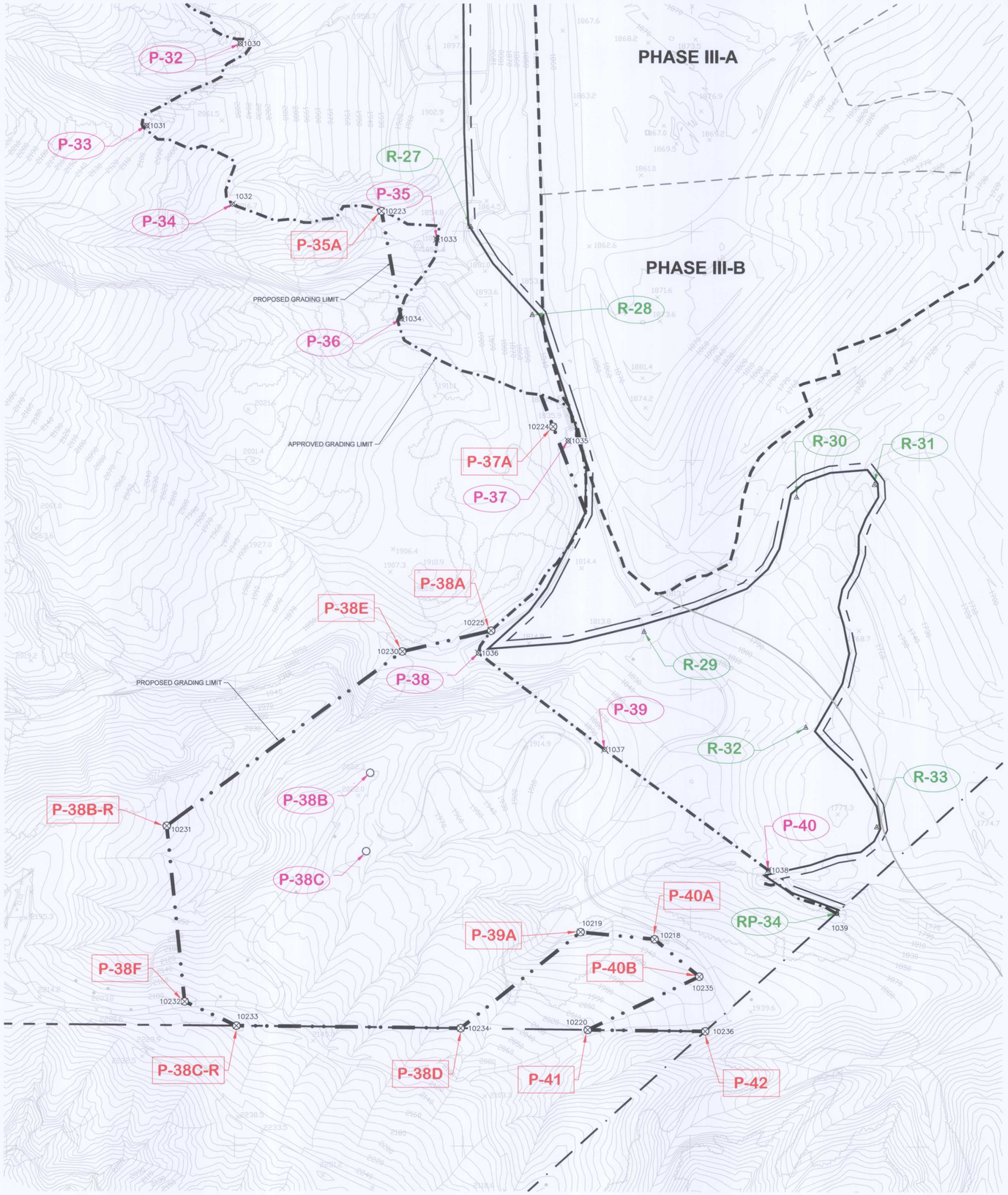
SUNSHINE CANYON LANDFILL
14747 SAN FERNANDO ROAD
SYLMAR, CA. 91342

SUNSHINE CANYON LANDFILL
DRAINAGE & GRADING LIMITS
REVISION NUMBER 4

TOPOGRAPHY GRADES AS OF MARCH 1, 2017

DWG NO.
1 of 2
PROJECT NO.
2016.0042

D:\Projects\2016\2016.0042\01_CAD\02_GLA-DWGS\SURVEY MONUMENT\2016.0042-APPROVED GRADING LIMIT 2017-04-21.dwg Aug 07, 2017 - 9:8am By: Jorge Amaya



LEGEND:

- COUNTY LINE
- PROPERTY BOUNDARY
- (100) EXISTING GROUND SURFACE CONTOUR EL, FEET
- PROPOSED GRADING LIMIT
- APPROVED GRADING LIMIT
- APPROVED LIMITS OF REFUSE PER 2002 JTD
- LIMITS OF LANDFILL PER EXHIBIT "A" (ALTERNATE) OF CUP EIR-SEQUENCE 2, DRAWING 3A FEB 1991
- EXISTING LINER
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- R-XX APPROVED REFUSE LIMITS SURVEYING MONUMENTS AS-BUILT

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION
APPROVED
FOR REVISION OF GRADING LIMITS AND SURVEY MONUMENTS

NO ADDITIONS OR ALTERATIONS OF THE SUBJECT FACILITY (IES) SHALL BE MADE WITHOUT THE WRITTEN PERMISSION OF THE DEPT. OF PUBLIC WORKS. THIS CLEARANCE DOES NOT PERMIT OR APPROVE THE VIOLATIONS OF THE PROVISIONS OF ANY ORDINANCE OR STATUE.

BY _____ DATE February 1, 2018

N

100' 0' 50' 100' 200'

SCALE: 1" = 100'

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MIKE LOPEZ
PLS 8995
VERTEX SURVEYING, INC.

May 25, 2017
DATED

PROFESSIONAL LAND SURVEYOR MIKE LOPEZ PLS 8995 STATE OF CALIFORNIA

EXISTING TOPOGRAPHY BASED ON MARCH 1, 2017 AERIAL SURVEY BY COOPER AERIAL

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CHECKED BY: C BARRETT
APPROVED BY: R JOHNSON

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REGISTERED PROFESSIONAL ENGINEER C 78076 Exp 3/31/17 CIVIL STATE OF CALIFORNIA
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REPUBLIC SERVICES
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14747 SAN FERNANDO ROAD
SYLMAR, CA. 91342

SUNSHINE CANYON LANDFILL
DRAINAGE & GRADING LIMITS
REVISION NUMBER 4

DETAILS

DWG NO. 2 of 2
PROJECT NO. 2016.0042

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COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

MARK PESTRELLA, Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE
REFER TO FILE: EP-5

March 13, 2018

Mr. Chris Coyle, General Manager
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342-1021

Dear Mr. Coyle:

SUNSHINE CANYON CITY/COUNTY LANDFILL
CONDITIONAL USE PERMIT NO. 00-194-(5)
CELL CC-4 STABILITY BUTTRESS GRADING AND DRAINAGE PROJECT

We have completed our review of your request for approval of grading and drainage for the Cell CC-4 Stability Buttress Project (Project) at the Sunshine Canyon Landfill (Landfill) for compliance with Conditions 37 and 38 of the Conditional Use Permit No. 00-194-(5). The Project involves the construction of a stability buttress and associated excavation, which will construct a foundation for the Landfill liner, perimeter drainage channel, and related containment systems. The Project will also require grading inside the Landfill's grading limits as shown in the Drainage & Grading Limits Plans – Revision Number 4 approved by the Los Angeles County Department of Public Works
(Public Works) dated February 1, 2018, for the Revision of Grading Limits and Survey Monuments for the Sunshine Canyon Landfill. The documents reviewed in support of your request are listed in Enclosure A.

The reports and accompanied drawings meet our requirements for grading and drainage and are hereby <u>conditionally</u> approved. The conditions associated with this approval are specified in Enclosure B and describe that the mass excavation plan is conditionally approved and filling activities are conceptually approved pending the approval of the final mass excavation configuration. Please note that this conditional and conceptual approval is for mass excavation and filling activities respectively, associated with Cell CC-4 Stability Buttress only, which is within the approved Landfill

boundary as shown in Exhibit A-2 of the Conditional Use Permit No. 00-194-(5) dated December 5, 2017.

As described in Enclosure B – Sunshine Canyon Landfill Cell CC-4 Stability Buttress Required Conditions of Approval and Comments, Sunshine Canyon Landfill is required to meet the respective requirements prior to receiving the conceptual approval. In order for us to expedite the review of subsequent submittals, please provide a project schedule timeline, which includes estimated dates of commencement of each phase of this project, to this office within 30 days of the date of this letter. Also, provide routine monthly progress reports for the duration of the project. All documents and reports required by the conditions of approval shall be submitted digitally as well as to the following address:

County of Los Angeles
Department of Public Works
Environmental Programs Division
P.O. Box 1460
Alhambra, CA 91802-1460
Attention: Martins Aiyetiwa, Landfills Section

Additionally, any deviation from the information submitted, presented and/or proposed for the Cell CC-4 Stability Buttress Project will require updated plans, reports, and supporting information to be submitted to this office for prior review and approval.

Failure to comply with any of the requirements of this conditional approval letter may constitute a violation of the Conditional Use Permit No. 00-194-(5) and be subject to the penalty provision described in Condition No. 11 of the Conditional Use Permit No. 00-194-(5).

This approval and its requirements does not exempt Republic Services from the responsibility of complying with any other laws, regulations or requirements enforced by the Los Angeles Regional Water Quality Control Board or other regulatory agencies.

For questions or inquiries, please contact Mr. Martin Aiyetiwa at (626) 458-3553, Monday through Thursday, 7 a.m. to 5:30 p.m.

Very truly yours,

MARK PESTRELLA
Director of Public Works

PHIL K. DOUDAR
Assistant Deputy Director
Environmental Programs Division

VT:jl
P:\Sec\DPW Conditional Approval Letter for CC 4 Stability Buttress Project.doc

Enc.

cc: City of Los Angeles Planning Department (Ly Lam, Nicholas Hendrix)
Department of Regional Planning (Maria Masis, Tim Stapleton)
Sunshine Canyon Landfill – Local Enforcement Agency (David Thompson, Maurice Pantoja, Dorcas Hanson-Lugo)
Los Angeles Regional Water Quality Control Board (Wen Yang)

Enclosure A

Sunshine Canyon Landfill Cell CC-4 Stability Buttress
Documents Reviewed in Support of Republic Services Request

- Geotechnical Report for Cell CC-4 Subgrade Slope Stability for Sunshine Canyon City/County Landfill, prepared by Geo-Logic Associates, dated March 5, 2015
- Response to Comments for Addendum to Geotechnical Report for Sunshine Canyon City/County Landfill Cell CC-4 Subgrade Slope Stability, prepared by Geo-Logic Associates, and dated April 4, 2016 (submitted April 7, 2016)
- Revised Sunshine Canyon Landfill CC-4 Stability Buttress Excavation and Fill Plans (Mass Excavation Plan; Phase I Fill Plan; Phase 2 Fill Plan; and Phase 3 (Final) Fill Plan) for Sunshine Canyon City/County Landfill CC-4 Stability Buttress Project, prepared by Geo-Logic Associates, and dated April 4, 2016 (submitted April 7, 2016)
- Response to Comments (only addressing Geotechnical and Materials Engineering Division's Comments) for Sunshine Canyon City/County Landfill CC-4 Stability Buttress Project, prepared by Geo-Logic Associates, and dated July 10, 2016 (submitted July 11, 2016)
- Storm Hydrology Design Report for Sunshine Canyon City/County Landfill CC-4 Stability Buttress Project, prepared by Geo-Logic Associates, dated August 24, 2016 (re-submitted December 28, 2017)
- Hydraulic Calculations for Sunshine Canyon City/County Landfill CC-4 Stability Buttress Project, prepared by Geo-Logic Associates, dated August 5, 2016 and July 21, 2016 (re-submitted December 28, 2017)
- Revised Water Surface Profile Gradient (WSPG) Input Model and WSPG Output File for Sunshine Canyon City/County Landfill CC-4 Stability Buttress Project, prepared by Geo-Logic Associates, dated December 1, 2017 (re-submitted December 28, 2017)
- Revised Soils and Geotechnical Report for Sunshine Canyon City/County Landfill CC-4 Stability Buttress Project, prepared by Geo-Logic Associates, dated December 22, 2017 (re-submitted December 28, 2017)
- Revised CC-4 Stability Buttress Grading and Drainage Plans (9 sheets) for Sunshine Canyon City/County Landfill CC-4 Stability Buttress Project, prepared by Geo-Logic Associates, dated December 8, 2017 (re-submitted December 28, 2017 and January 31, 2018)

* NOTE: Document submittal dates referenced denote most recent submittal dates of information provided by Republic Services to Public Works. Intermittent submittal and re-submittals occurred throughout review process.

Enclosure B

Sunshine Canyon Landfill Cell CC-4 Stability Buttress
Required Conditions of Approval and Comments

Geotechnical Materials and Engineering Division

1. Geotechnical Materials and Engineering Division (GMED) takes no exception with the geotechnical reports submitted to date for Cell CC-4, referenced above.
2. GMED recommends approval of the Mass Excavation Plan from a geotechnical standpoint with the following conditions of approval:
   a) Provide an as-graded survey of the completed mass excavation grading.
   b) Provide a geologic/geotechnical sub-grade map that utilizes the as-graded survey in (2a).

   The final geologic map shall include all geologic data collected prior to and during the grading of the site, including geologic information obtained from inspections of excavations. The map shall also depict sufficient geologic symbols to clearly depict the geologic units and structure, and seeps or springs, if encountered.
3. GMED recommends conceptual approval of the [Stability Buttress] Phase 1 Fill Plan when the conditions of approval for the Mass Excavation have been met.
4. GMED recommends conceptual approval of the [Stability Buttress] Phase 2 Fill Plan. Approval will be recommended when conditions of approval for the Mass Excavation and Phase 1 Fill Plans have been met.
5. GMED recommends conceptual approval of the temporary West Drainage Channel. Approval will be recommended when conditions of approval for the Mass Excavation and Phase 1-3 Fill Plans have been met.
6. Based on the as-graded survey for the Mass Excavation Plan, provide final design plans for the Phase 1-3 Fill Plans within two months of completion.

** NOTE: a) This review does not constitute a review or approval of the following projects: revised grading limits, the proposed West Drainage Channel "Line C", or grading associated with the Pole Realignment Project for Pole 15.

b) The plans submitted for the subject review, entitled Stability Buttress for CC-4, and referenced above, appear to be the precise grading plans with focus on surface drainage improvements for the cut slope above the stability buttress.

ATTACHMENT M

BOARD OF
BUILDING AND SAFETY
COMMISSIONERS

VAN AMBATIELOS
PRESIDENT

JAVIER NUNEZ
VICE PRESIDENT

JOSELYN GEAGA-ROSENTHAL
GEORGE HOVAGUIMIAN
ELVIN W. MOON

CITY OF LOS ANGELES
CALIFORNIA

ERIC GARCETTI
MAYOR

DEPARTMENT OF
BUILDING AND SAFETY
201 NORTH FIGUEROA STREET
LOS ANGELES, CA 90012

OSAMA YOUNAN, P.E.
GENERAL MANAGER
SUPERINTENDENT OF BUILDING

GEOLOGY AND SOILS REPORT APPROVAL LETTER

August 7, 2020

LOG # 112559-01
SOILS/GEOLOGY FILE - 2
LIQ/LAN/AP-Exempt

Republic Services
14747 N. San Fernando Road
Sylmar, CA 91344

TRACT: 10422
LOT(S): FR 9 (Arbs. 1 & 2)
LOCATION: 14747 N. San Fernando Road

CURRENT REFERENCE REPORT/LETTER(S)	REPORT No.	DATE OF DOCUMENT	PREPARED BY
Request for Modification	RFM 27303	08/07/2020	LADBS
Geology/Soils Report	SO19.1200	06/11/2020	Geo-Logic Associates
Oversized Doc(s).	"	"	"

CURRENT REFERENCE REPORT/LETTER(S)	REPORT No.	DATE OF DOCUMENT	PREPARED BY
Dept. Review Letter	112559	03/31/2020	LADBS
Geology/Soils Report	SO19.1200	03/09/2020	Geo-Logic Associates

The Grading Division of the Department of Building and Safety has reviewed the referenced report that provides recommendations for the proposed termination fill berm ranging up to 200 feet in height, cut slopes ranging up to 100 feet in height, and retaining walls ranging up to 15 feet in height. The new berm will be located at the main entrance area and is intended to expand the capacity of the landfill area to accommodate future municipal solid waste. The fill berm will be at a gradient of 1½:1 (H:V) on the west-facing side of the berm and 1¾:1 (H:V) on the east-facing side. Additionally, the eastern portion of the berm will range in gradient from 1¾:1 to 2:1 (H:V) to accommodate a new access road. The consultants recommend to support the proposed retaining walls on conventional foundations bearing on properly placed fill and/or competent bedrock.

Subsurface exploration performed by the consultant consisted of six hollow stem borings and one core boring to a maximum depth of 103 feet. The geotechnical exploration was supplemented with borings from groundwater monitoring and gas probe monitoring wells. The earth materials at the subsurface exploration locations consist of up to 75 feet of uncertified fill underlain by alluvium and sandstone and siltstone bedrock. Geologic structure observed by the consultant within the grading area generally consisted of northeast to southeast dipping bedding between 21 and 62 degrees. Groundwater was encountered at a depth of 13 feet at the main entrance area near San Fernando Road.

AN EQUAL EMPLOYMENT OPPORTUNITY - AFFIRMATIVE ACTION EMPLOYER

A "Request for Modification of Building Ordinances" (RFM 27303) has been reviewed and approved by the Department to allow the placement of fill at gradients of 1½:1 and 1¾:1 (H:V) for the construction of the landfill termination berm.

The project is located within a Fault Zone identified by the State of California Alquist-Priolo Act and in a designated seismically induced landslide and liquefaction hazard zones as shown on the Seismic Hazard Zones map issued by the State of California. However, the proposed construction is currently exempt (P/BC 2020-044).

As of January 1, 2020, the City of Los Angeles has adopted the new 2020 Los Angeles Building Code (LABC). The 2020 LABC requirements will apply to all projects where the permit application submittal date is after January 1, 2020.

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 2020 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. Conformance with the Zoning Code Section 12.21 C8, which limits the heights and number of retaining walls, will be determined during structural plan check.

2. A detailed geologic mapping of the subgrade slope shall be performed during clearing and grubbing of slopes and during excavations, as recommended on page 34 of the 03/09/2020 report.

3. The geologist and 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 geologist and soils engineer have reviewed the plans prepared by the design engineer and that the plans include the recommendations contained in their reports (7006.1).

4. All recommendations of the report 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 (7006.1). Submit one copy of the above reports to the Building Department Plan Checker prior to issuance of the permit.

6. A grading permit shall be obtained for all structural fill and retaining wall backfill (106.1.2).

7. All graded, brushed or bare slopes shall be planted with low-water consumption, native-type plant varieties to protect slopes against erosion (7012).

8. All new graded slopes shall be no steeper than 2H:1V, except as specifically approved by the RFM (7010.2 & 7011.2).

9. Prior to the issuance of any permit, an accurate volume determination shall be made and included in the final plans, with regard to the amount of earth material to be exported from the site. For grading involving import or export of more than 1000 cubic yards of earth materials within the grading hillside area, approval is required by the Board of Building and Safety. Application for approval of the haul route must be filed with the Board of Building and Safety Commission Office. Processing time for application is approximately 8 weeks to hearing plus 10-day appeal period.

10. Man-mad fill placed in the upper 40 feet shall be compacted to a minimum of 90 percent of the maximum dry density and 93 percent below 40 feet.

11. 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. Placement of gravel in lieu of compacted fill is only allowed if complying with LAMC Section 91.7011.3.

12. If import soils are used, no footings shall be poured until the soils engineer has submitted a compaction report containing in-place shear test data and settlement data to the Grading Division of the Department; and, obtained approval (7008.2).

13. Compacted fill shall extend beyond the footings a minimum distance equal to the depth of the fill below the bottom of footings or a minimum of three feet whichever is greater, except at locations where lateral over excavation is not possible (i.e., foundations adjacent to property lines or structures), in which case the foundations may be deepened to bear in competent bedrock, as recommended (7011.3).

14. Existing uncertified fill shall not be used for support of footings, concrete slabs or new fill (1809.2, 7011.3).

15. Drainage in conformance with the provisions of the Code shall be maintained during and subsequent to construction (7013.12).

16. 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 cubic yards (7007.1).

    6262 Van Nuys Blvd. Ste 351, Van Nuys (818) 374-4605

17. The applicant is advised that the approval of this report does not waive the requirements for excavations contained in the General Safety Orders of the California Department of Industrial Relations (3301.1).

18. Excavations shall not remove lateral support from a public way, adjacent property or an existing structure. 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)

19. A supplemental report shall be submitted to the Grading Division of the Department containing recommendations for shoring, underpinning, and sequence of construction in the event that any excavation would remove lateral support to the public way, adjacent property, or adjacent structures (3307.3). A plot plan and cross-section(s) showing the construction type, number of stories, and location of the structures adjacent to the excavation shall be part of the excavation plans (7006.2).

20. All foundations shall derive entire support from properly placed fill or competent bedrock, as recommended and approved by the geologist and soils engineer by inspection.

21. Foundations adjacent to a descending slope steeper than 3:1 (horizontal to vertical) in gradient shall be a minimum distance of one-third the vertical height of the slope but need not exceed 40 feet measured horizontally from the footing bottom to the face of the slope (1808.7.2).

22. Footings supported on approved compacted fill or expansive soil shall be reinforced with a minimum of four (4), ½-inch diameter (#4) deformed reinforcing bars. Two (2) bars shall be placed near the bottom and two (2) bars placed near the top of the footing.

23. The foundation/slab design shall satisfy all requirements of the Information Bulletin P/BC 2017-116 "Foundation Design for Expansive Soils" (1803.5.3).

24. The seismic design shall be based on a Site Class C as recommended. All other seismic design parameters shall be reviewed by LADBS building plan check.

25. Retaining walls shall be designed for the lateral earth pressures specified in Appendix F of the 03/2020 report. All surcharge loads shall be included into the design.

26. Retaining walls higher than 6 feet shall be designed for lateral earth pressure due to earthquake motions as specified in Appendix F of the 03/2020 report (1803.5.12).

27. Retaining walls at the base of ascending slopes shall be provided with a minimum freeboard of 12 inches, as recommended.

28. The recommended equivalent fluid pressure (EFP) for the proposed retaining wall shall apply from the top of the freeboard to the bottom of the wall footing.

29. All retaining walls shall be provided with a standard surface backdrain system and all drainage shall be conducted in a non-erosive device to the street in an acceptable manner (7013.11).

30. 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 soils report shall be incorporated into the foundation plan which shall be reviewed and approved by the soils engineer of record (1805.4).

31. Installation of the subdrain system shall be inspected and approved by the soils engineer of record and the City grading/building inspector (108.9).

32. Prefabricated drainage composites (Miradrain, Geotextiles) may be only used in addition to traditionally accepted methods of draining retained earth.

33. All concentrated drainage shall be conducted in an approved device and disposed of in a manner approved by the LADBS (7013.10).

34. 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 use in the field (7008.2, 7008.3).

35. The geologist and 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, & 1705.8).

36. Prior to pouring concrete, a representative of the consulting soils engineer shall inspect and approve the footing excavations. The representative shall post a notice on the job site for the LADBS Inspector and the Contractor stating that the work inspected meets the conditions of the report. No concrete shall be poured until the LADBS 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)

37. Prior to excavation an initial inspection shall be called with the LADBS Inspector. During the initial inspection, the sequence of construction, protection fences, and dust and traffic control will be scheduled (108.9.1).

38. Prior to the placing of compacted fill, a representative of the soils engineer shall inspect and approve the bottom excavations. The representative shall post a notice on the job site for the LADBS Inspector and the Contractor stating that the soil inspected meets the conditions of the report. No fill shall be placed until the LADBS 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).

39. Where foundations and/or slabs are to be supported on certified fill, no footing/slab shall be poured until the compaction report is submitted and approved by the Grading Division of the Department.

EDMOND LEE
Engineering Geologist Associate III

DAN RYAN EVANGELISTA
Structural Engineering Associate III

Log No. 112559-01
213-482-0480

cc: Geo-Logic Associates, Project Consultant
VN District Office

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
Grading Division

District	Log No. 112559-01

APPLICATION FOR REVIEW OF TECHNICAL REPORTS

INSTRUCTIONS

A. Address all communications to the Grading Division, LADBS, 221 N. Figueroa St., 12th Fl., Los Angeles, CA 90012 Telephone No. (213)482-0480.
B. Submit two copies (three for subdivisions) of reports, one "pdf" copy of the report on a CD-Rom or flash drive, and one copy of application with items "1" through "10" completed.
C. Check should be made to the City of Los Angeles.

1. LEGAL DESCRIPTION
Tract: 10422
Block: — Lots: 9 Arb 1 & 2

2. PROJECT ADDRESS: 14747 San Fernando Rd. Sylmar, CA 91342

3. OWNER: Republic Services
Address: 14747 San Fernando Rd.
City: Sylmar Zip: 91342
Phone (Daytime): 818-617-1143

4. APPLICANT Tuong-Phu Ngo
Address: 14747 San Fernando. Rd.
City: Sylmar Zip: 91342
Phone (Daytime): 818-617-1143
E-mail address: tngo@republicservices.com

5. Report(s) Prepared by: GeoLogic Associates

6. Report Date(s): 6/11/2020

7. Status of project: ☐ Proposed ☐ Under Construction ☐ Storm Damage
8. Previous site reports? ☑ YES if yes, give date(s) of report(s) and name of company who prepared report(s)

9. Previous Department actions? ☑ YES if yes, provide dates and attach a copy to expedite processing.
Dates:

10. Applicant Signature: Tuong Phu Ngo Position: Environmental Manager

(DEPARTMENT USE ONLY)

REVIEW REQUESTED	FEES	REVIEW REQUESTED	FEES
☐ Soils Engineering		No. of Lots	
☐ Geology		No. of Acres	
☐ Combined Soils Engr. & Geol.		☐ Division of Land	
☐ Supplemental		Other	
☑ Combined Supplemental	363.00	☑ Expedite	181.50
☐ Import-Export Route		☐ Response to Correction	
Cubic Yards:		☐ Expedite ONLY	
		Sub-total	544.50
		Surcharges	129.80
		TOTAL FEE	674.30

Fee Due: 674.30
Fee Verified By: ml Date: 6/18/20
(Cashier Use Only)

ACTION BY:

THE REPORT IS: ☐ NOT APPROVED
☐ APPROVED WITH CONDITIONS ☐ BELOW ☐ ATTACHED

For Geology Date
For Soils Date

14747 San Fernando Rd.
LA Department of Building and Safety
LA HANH 10801618 6/19/20 8:44:01 AM

GRADING REPORT $363.00
SYSTEMS DEV SURCH $21.78
GEN PLAN MAINT SURCH $25.41
DEV SERV CENTER SURCH $10.89
CITY PLAN SURCH $21.78
PLAN APPROVAL FEE $181.50
SYSTEMS DEV SURCH $10.89
GEN PLAN MAINT SURCH $12.71

DEV SERV CENTER SURCH $5.45
CITY PLAN SURCH $10.89
MISCELLANEOUS $10.00

Receipt #: 0108179644
Sub Total $674.30

ATTACHMENT N

SAN FERNANDO ROAD RETAINING WALL CLEANUP PROJECT

