

**Sunshine Canyon Landfill
Independent Monitor
Quarterly Site Monitoring Status Report
July 1, 2017 – September 30, 2017**

Prepared For:

City of Los Angeles Department of City Planning

And

County of Los Angeles Department of Regional Planning



Prepared By:



UltraSystems
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Prepared On:

December 22, 2017

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CERTIFICATION STATEMENT

December 22, 2017

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated December 22, 2017 is the Third Quarterly Report for 2017, issued by UltraSystems. This report covers the monitoring period from July 1, 2017 through September 30, 2017 and is prepared for the City of Los Angeles Department of City Planning and the County of Los Angeles Department of Regional Planning.

I, James T. Aidukas, Project Manager for the Mitigation Monitoring Services of the Sunshine Canyon Landfill, certify that the statements in the Quarterly Report and the referenced monthly reports reflect the site conditions observed and compliance status noted by me and other qualified experts during the stated site visits.

Signed,

James T. Aidukas

Project Manager

Quarterly Status Report

This Quarterly Status Report is a compilation of the period's monthly Site Monitoring. After each site visit, the UltraSystems monitors who went to the Sunshine Canyon Landfill site each wrote a Mitigation Monitoring Site Report. The Mitigation Monitoring Summary spreadsheets for the City and County of Los Angeles note any conditions and/or mitigation measures that need further review, and document these areas in an appendix for that site visit date. Any issues that required immediate attention were reported to Republic Services (Republic) staff and the appropriate staff at the City of Los Angeles Planning Department, the County of Los Angeles Department of Regional Planning, the County of Los Angeles Department of Public Works and the Sunshine Canyon Landfill Local Enforcement Agency (SCL-LEA).

The Sunshine Canyon Landfill City and County Mitigation Monitoring Summary spreadsheets record by date each site visit and frequency of monitoring of specific conditions and/or mitigation measures. When a condition and/or mitigation measure is monitored, a check mark is made under the date that it was monitored, and the status of being compliant with the conditions and/or mitigation measures' requirements observed during monitoring is recorded. Tasks with a yearly or non-ongoing monitoring frequency are denoted by a forward slash (/) in subsequent date columns. In the status column, the letter "C" is put next to the task if it is Compliant; the letters "NC" are noted if the task status is Non-Compliant; and the letters "FRN" are used if Further Review is Needed for meeting the requirements of the conditions and/or mitigation measures.

Under the Further Review Needed/ Comment column, observed conditions that have been noted as "FRN" in the status column refer to appendices which detail what was observed during the site monitoring. When the conditions and/or mitigation measures that were previously noted as "FRN" are fully compliant, an "R" is placed in the Resolved column and a "C" replaces the "FRN" in the status column. Also noted in the FRN-Comments column are those action items that would improve monitoring efficiency by having reports and documents readily available. These are summarized in the Mitigation Monitoring Summary spreadsheets and the Summary of Requested Documents section of the Quarterly Reports.

This Quarterly Report provides the City of Los Angeles Department of Planning and the County of Los Angeles Department of Regional Planning with a concise status of the Mitigation Measure Monitoring for the period of July 1, 2017 to September 30, 2017. It includes:

1. The City and County Mitigation Monitoring Summary spreadsheets for July 1, 2017 to September 30, 2017. These spreadsheets record the areas of monitoring completed and the status of being compliant during the third quarter of 2017;
2. A Status Summary of Non-Compliant, Further Review Needed and Compliant with the requirements of the conditions and/or mitigation measures;
3. Photo Location Map and Relevant Site Photos showing site conditions of key areas of the landfill during this quarter;
4. Site visit attendees by date of site visit and the mitigation monitoring site report from each monitor;
5. Meeting logs documenting any meetings with Republic staff and/or public agencies, with the topics discussed; and
6. Any site monitoring documenting site changes.

Site Visits During the Quarter

Five site visits were performed by UltraSystems during the July through September 2017 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on July 11, 2017; July 25, 2017; August 14, 2017; September 12, 2017; and September 26, 2017. The previously discussed conditions and/or mitigation measures were tracked by each specialist who visited, and observations were documented. Site conditions were noted to be: Compliant, Non-Compliant, or Further Review Needed. If a Condition was found to be Non-Compliant or observed as having Further Review Needed, a reference was made to an appendix which details what was observed by the monitor.

Definition of Terms

Compliant is defined as complying with the City and County conditions and/or mitigation measures.

Non-compliant is defined as not complying with the City and County conditions and/or mitigation measures.

Further Review Needed is defined as implementing plans (agency-approved, if required) to fully comply with a condition and/or mitigation measure. Some plans, especially vegetation, require an extended time frame, and immediate compliance is not possible.

Further Review Needed/ Comments is defined as comments documenting site conditions observed during monitoring visits that are not fully compliant but action is being taken in order to obtain full compliance with conditions and/or mitigation measures. Recommendations from the monitor, as appropriate, and status from Republic may also be given. The comments section of the monitoring report also provides a summary of activities being done on-site to construct or maintain facilities and a summary of documents, reports and drawings that should be readily available onsite for monitoring reference.

Resolved is defined as action taken or activities completed to fully comply with conditions and/or mitigation measures.

Status Summary

This section summarizes the conditions and/or mitigation measures that were monitored during the quarterly reporting period and their respective statuses. The Sunshine Canyon Landfill Mitigation Monitoring Summary spreadsheets for the City and County show the conditions and/or mitigation measures monitored during the quarter. Also included in this report are relevant photos in Appendix II.

Compliant

The majority of the conditions and/or mitigation measures monitored were observed to be compliant. There are City and County conditions which are compliant, but are noted as having corresponding comments that refer to the appendices. The Compliant with Comments section of the monitoring report provides a summary of activities being done on-

site to construct or maintain facilities and a summary of documents, reports and drawings that should be readily available onsite for monitoring reference.

Non-Compliant

During UltraSystems' five site visits, no Non-Compliant conditions and/or mitigation measures were noted. Also, it must be understood that any monitoring related to landfill gas and odors are not part of the UltraSystems Monitoring Program at this time. These issues are currently being handled by a multi-agency team, which is led by the South Coast Air Quality Management District (SCAQMD).

Further Review Needed

The following conditions and/or mitigation measures were found not to be fully compliant, but were being worked on in order to obtain full compliance. This section summarizes the progress being made toward being fully compliant. When a condition and/or mitigation measure progresses from "FRN" to fully compliant, it is noted as Resolved in this section, and on the City and County Mitigation Monitoring Summary spreadsheets.

Q-B.2.c (City)

Ancillary Uses and Facilities. The subject property may only be used for the following uses and facilities. These ancillary uses and facilities described in the July 1997 Draft Subsequent EIR, pages 2-38 through 2-43, and may be located on the applicant's property generally in conformance with the diagram attached as Exhibit e-4, and during the life of the landfill, may be moved or relocated following commencement of landfiling operations as necessary to accommodate development of the ultimate landfill footprint.

Geology-1.07 (County)

All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report for the proposed Project, including provisions for excavation approved by the County Department of Public Works, the County Local Enforcement Agency (LEA) and other Responsible Agencies.

Geology-1.11 (County)

Grading allows for ancillary facilities outside of the landfill footprint.

Biota-4.29 (County)

San Diego Horned Lizard: Impact on the San Diego horned lizard can be mitigated to a level of less than significant by restoring coastal sage scrub habitat. This will create a temporal loss of the species, but the population should recover following restoration of this habitat. Topsoils should be selected that are friable to suit lizard habitat requirements.

Biota-4.30 (County)

California Gnatcatcher: Surveys shall be conducted for California gnatcatchers prior to Game Permit onsite grading to determine the status of this Game species within development areas.

Biota-4.33 (County)

Migratory Bird Treaty Act: To prevent the loss of an active migratory bird nest, vegetation shall not be cleared during the breeding season (i.e. March 15 to August 1).

Biota-4.34 (County)

Raptor nests: If habitat removal is proposed during the raptor breeding season (i.e. March to July), a survey shall be conducted for active nesting areas.

Current Status/Comments – Throughout the 3rd Quarter, the buttress design plans and engineering documents to support Cell CC-4A Part 3 adjacent native slopes were under review by the County Department of Public Works Civil Engineering and Permitting sections. The buttress is outside of the prior-approved landfill footprint.

In early July, the waste was being placed in Cell CC-4 Part 1. The existing access roads were being used for disposal operations. The majority of the slide material from the slope in Cell CC-4 Part 2 was removed. Wet areas and flowing water was observed on the slope coming from prior controlled seeps.

In late July, Cell CC-4 Part 1 was the only area accepting waste. The slide material in Cell CC-4 Part 2 was removed. The seeps are not yet controlled and water was seen in the bottom of the future cell. Construction of the cell is nearing final base grade.

In mid-August, Cell CC-4 Part 1 was the active fill area. The stockpiled soil in Cell CC-3A was approximately 60% removed and being used for daily cover. Cell CC-4 Part 2 base HDPE liner was completed. A protective soil cover layer was being placed on the HDPE liner. Slope seeps and springs were captured and piped to the water recovery system piping.

In early September, Cell CC-4 Part 1 was the active fill area. Stockpiled soil from Cell CC-3A was being excavated and used for daily cover. The stockpile elevation was at approximately the same as the scales access roadway. Cell CC-4 Part 2 liner construction continued. The back-slope liner only had the bottom HDPE liner in place.

In late September, Cell CC-4 Part 1 was the active fill area. Roadways were compacted with cover material. Cell CC-4 Part 2 liner construction continued with work being done on the northern back slope.

Q-C.3.h (City)

The access roads extended to new fill areas shall be surfaced with recycled asphalt, aggregate materials, or soft stabilization products to minimize the length of untreated dirt.

Current Status/Comments – There are numerous dirt access roads that are used daily, but infrequently. When used, blowing dust is a concern. The use of a soil sealant or limiting the use of dirt roads to those that are watered should be considered. The use of a soil sealant on temporary construction roads should be evaluated. The use of water trucks was not effective in controlling dust on these temporary construction roads. As the access road lengthens from the scales to the operating disposal areas, the roadway needs to be surfaced with either recycled asphalt, aggregate materials, or soft stabilization products in order to minimize the length of untreated dirt.

Q-C.5 (City)

Graffiti removal and deterrence on building and structures in public view.

Current Status/Comments – During this quarter, no graffiti was observed.

Q-C.10.c (City)

The operator shall submit, as part of its annual report, an evaluation of the feasibility of beneficial uses of the landfill gas collected at the site such as landfill-gas-to-energy.

Odor/Landfill Gas - 7.07 (County)

The permittee will recover and sell as much gas as is technically and economically feasible to reduce total air quality emissions from the landfill operations. It is expected that the technical and economic feasibility of commercial recovery and sale of landfill gas as a renewable energy resource will occur at levels below 40 MMCFD. The gas collection system will be installed in increments to allow for maximum gas recovery.

Gas - 52 (County)

To the extent technically and economically feasible, the Permittee shall use Landfill gas for energy generation at the Facility or other beneficial uses, rather than flaring, and shall obtain all applicable local, state, and/or federal approvals for any such use. Notwithstanding the forgoing, the Permittee shall be exempt from this Condition No. 52 if, as a 'part of its annual report required by Part X of the IMP, the Permittee determines that any such activity or project is infeasible, which determination shall be subject to the review and approval of the Director of Public Works.

The Permittee shall also install and maintain a landfill gas collection system complying with SCAQMD requirements, which uses best available control technology to control the lateral migration of gases to the satisfaction of the Director of Public Works, County LEA, and SCAQMD. In addition to the other requirements of this Condition No. 52, Landfill gas flares shall be installed below the adjacent interior ridges of the site, unless otherwise required by the SCAQMD, and the flames shall be totally contained within the stacks. Flame arrestors shall be provided to the satisfaction of the County Forester and Fire Warden.

Current Status/Comments – In early July, the gas-to-energy plant was using 8941 SCFM of recovered landfill gas, 47.0% CH₄, 1.8% O₂. The facility was at 100% production. Flare 1 - not monitored; Flare 3 - shut down; Flare 9 - shut down; Flare 10 - 5047 SCFM. The total volume of landfill gas recovered could not be determined.

In late July, the gas-to-energy plant was using 9364 SCFM of recovered landfill gas, 47.0% CH₄, 1.9% O₂. The facility was at 100% production. Flare 1 - 2620 SCFM; Flare 3 - shut down; Flare 9 - 3284 SCFM; Flare 10 - 3245 SCFM. The total volume of landfill gas recovered was 18,513 SCFM.

In mid-August, the gas-to-energy plant was using 9402 SCFM of recovered landfill gas, 45.0% CH₄, 1.2% O₂. The facility was at 100% production. Flare 1 - 2690 SCFM; Flare 3 - shut down; Flare 9 - 3761 SCFM; Flare 10 - 3758 SCFM. The total volume of landfill gas recovered was 19,611 SCFM.

In early September, the gas-to-energy plant was using 9956 SCFM of recovered landfill gas, 42.0% CH₄, 1.3% O₂. The facility was at 100% production. Flare 1 - 3095 SCFM; Flare 3 - shut down; Flare 9 - 4386 SCFM; Flare 10 - 4402 SCFM. The total volume of landfill gas recovered was 21,840 SCFM.

In late September, the gas-to-energy plant was using 9487 SCFM of recovered landfill gas, 45.0% CH₄, 1.2% O₂. The facility was at 100% production. Flare 1 - 2929 SCFM; Flare 3 - shut down; Flare 9 - 4451 SCFM; Flare 10 - 4591 SCFM. The total volume of landfill gas recovered was 21,458 SCFM.

Throughout the 3rd Quarter, the quantity of landfill gas recovered has averaged 20,355 SCFM, with the gas-to-energy plant usage averaging 9430 SCFM. An expansion of the gas-to-energy plant or different beneficial use facility should be evaluated.

The conditions state that planning for expanding the renewable energy facilities should begin when the quantity and quality of gas being flared can support the installation of a new facility or an expansion of the existing facility, and that the status of the technical and economic feasibility be included in Republic's biennial reports. The typical time required for planning, funding, and permitting a renewable energy facility is four years, or more.

T-4 (City)

Prepare a plot plan ["fire plan"] to the satisfaction of the Fire Department.

a. immediate access fire plan [now]

b. plot plan for the future facilities will be submitted when these are implemented

Fire Service - 12.03 (County)

The permittee shall maintain onsite fire response capabilities, construct access road, provide water tanks, water mains, fire hydrants and fire flows and perform brush clearance to the satisfaction of the County Forester and Fire Warden. The landfill will comply with all applicable County codes and ordinances which delineated the requirements for fire access, water mains, fire flows and fire hydrants, specifically defined by the County Fire Department. New construction water tanks, water mains and fire hydrants will be completed to meet the fire flow requirements of the Fire Department.

Current Status/Comments – An updated fire plan showing the new locations of all facilities and emergency egress should be prepared and sent to the local City Fire Department station, and City and County Planning departments when construction of the new operation's facilities currently under construction have been completed. Emergency egress should be posted for employees and customers.

M-4.1.1(2) (City)

Areas outside of and above the cut and fill as shown on the conceptual grading plan shall not be graded, except for the development of ancillary facilities or other related improvements. Additional grading may be necessary for slope stability or drainage purposes. Prior to undertaking any grading activities, the Department of Building and Safety shall be notified and approve any additional grading based on engineering studies (in accordance with CCR Title 27) provided by the project proponent and independently evaluated by the Department of Building and Safety.

M-4.1.1(4) (City)

Grading that allows for construction of ancillary facilities outside of the landfill footprint or that has the potential to impact property beyond the boundary of the landfill shall be approved by the Department of Building and Safety.

M-4.1.1(5) (City)

All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report prepared specifically for the proposed project, including provisions for excavation approved by the Department of Building and Safety, City Engineer, City LEA and other Responsible Agencies.

M-4.1.5(12) (City)

Geologic Hazards - Liquefaction

Alluvium in the canyon bottoms beneath the footprint of the waste containment system and beneath ancillary structures shall be excavated and, if necessary, replaced with compacted structural fill during construction. A qualified geologist shall be onsite during construction activities to observe removal and replacement of alluvium and verify that all alluvium within the landfill footprint has been removed prior to placement of any compacted fill or construction of any containment system elements.

M-4.14.1(155) (City)

Construction of the realigned access roadway shall not exceed 15 percent in grade. An access road shall be constructed and maintained around the working area of the landfill for emergency access for firefighting equipment.

Geology-1.07 (County)

All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report prepared specifically for the proposed Project, including provisions for excavation approved by the County Department of Public Works, the County Local Enforcement Agency (LEA) and other Responsible Agencies.

Current Status/Comments – Future out-of-approved landfill footprint grading is proposed for a Cell CC-4 Part 3 buttress. Grading plans have been submitted to the County Department of Public Works for approval. These plans are under review by County Civil Engineering and Permitting sections. The only grading occurring in this quarter was for the development of Cell CC-4 Part 2 and the removal of soil for waste cover from stockpiled soil in Cell CC-3A. These activities are inside the approved landfill footprint.

M-4.1.1(6) (City)

Revegetation and erosion control procedures on all exposed slopes shall be implemented. The erosion controls to be implemented at the site shall include soil stabilization measures and revegetation in accordance with the approved revegetation plan as approved by the City Building and Safety Department. Interceptor ditches shall be designed to divert storm runoff to a sedimentation basin.

M-4.2.11(23) (City)

Disturbed areas shall be revegetated with an interim ground cover as specified in the proposed revegetation program. Excavation will proceed in a manner to reduce the amount of graded areas at any given time.

M-4.2.12 (28) (City)

Site Erosion

c. A temporary vegetation cover shall be established on all slopes that are to remain inactive for a period longer than 180 days.

d. An SCAQMD approved soil stabilization (sealant) product shall be used to retard soil erosion and enhance revegetation. Soil sealant shall be applied when necessary to selected working areas of the landfill. The sealant will also be used as a binder or tackifier to hold seed during revegetation mulch, and fertilizers in-place until grasses become establish and stabilize on the landfill surface.

Geology-1.13 (County)

Revegetation and erosion control of all exposed slopes will be an ongoing process. The erosion controls to be implemented at the site will include soil stabilization measures and revegetation in accordance with the approved Revegetation Program. The installation of interceptor ditches shall be designed for the diversion of storm runoff to sedimentation basins. Sediment traps will be used at points of runoff concentration along the perimeter of exposed slopes surfaces.

Condition: Approval of drainage plan. Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.

Geology-1.14 (County)

To prevent soil erosion on the face of the landfill, interim vegetation measures will be taken after placement of the temporary soil layer (even though the area may be disturbed by future filling operations). Vegetative cover will be placed as in the approved Revegetation Program.

Condition: Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.

Biota – 4.42 (County)

Areas inactive for 180 days or longer will be planted with interim vegetation as approved by County biologist. Records will be kept to track fill areas of the site which are transferred to an inactive status so that appropriate dust control and revegetation measures can be implemented.

Air Quality - 6.02 (County)

Dust Control will also be accomplished through the temporary revegetation of the landfill surface. A temporary revegetation of the landfill surface, and a temporary vegetation cover will be established on all slopes that are to remain inactive for a period longer than 180 days. Specifications of temporary revegetation measures will be provided in the Revegetation Plan submitted to the County biologist for approval, the Closure and Postclosure Maintenance Plans, the Condition Use Permit, and Conditions of Project Approval.

Visual-10.08 (County)

Cover/Revegetation Requirements

The permittee shall comply with the following cover and re-vegetation requirements at the Landfill:

(1). The permittee shall apply a temporary hydroseed vegetation cover on any slope or other Landfill area that is projected to be inactive for a period greater than 180 days, as set forth in the IMP. The permittee shall promptly notify the County LEA and the Department of Public Works of any such slope or area;

Revegetation Requirements

(5) Notwithstanding the foregoing, the permittee shall not be bound by the previous provisions of this Condition No. 44, but instead by the requirements of the County LEA, so long as the Limits of Fill are not exceeded, if in consultation with the Department of Public Works, the County LEA determines that a different re-vegetation design or plan:

(1) would better protect public health and safety;

(2) would enable revegetation of the final slopes at least as well as shown in Exhibit "B" described in subsection D, above; and/or experts, including an independent, qualified bio (3) would be required because the minimum standards adopted by the CIWMB have been amended;

(6) the permittee shall employ an expert or biologist, to satisfy this Condition No. 44. Soil sampling and laboratory analysis shall be conducted in all areas that are required to be re-vegetated before any re-vegetation occurs to identify chemical or physical soil properties that may adversely affect plant growth or establishment. Soil amendments and fertilizer recommendations shall be applied and plant materials selected, based on the above referenced testing procedures and results. To the extent possible, plant types shall blend with species indigenous to the area, be drought tolerant, and be capable of rapid growth. The selected plants shall not include nonindigenous species that are likely to be invasive of adjacent natural areas.

Biota - Revegetation - 44.A (County)

A. The Permittee shall apply a temporary hydroseed vegetation cover on any slope or other Landfill area that is projected to be inactive for a period greater than 180 days, as set forth in the IMP. The Permittee shall promptly notify the SCL-LEA and the Department of Public Works of any such slope or area.

Revegetation - 44.F/44.F CUP (County)

F. The Permittee shall employ an expert or experts, including an independent, qualified biologist, to satisfy this Condition No. 44. Soil sampling and laboratory analysis shall be conducted in all areas that are required to be re-vegetated before any re-vegetation occurs to identify chemical or physical soil properties that may adversely affect plant growth or establishment. Soil amendments and fertilizer recommendations shall be applied and plant materials selected, based on the above-referenced testing procedures and results. To the extent possible, plant types shall blend with species indigenous to the area, be drought tolerant, and be capable of rapid growth. The selected plants shall not include non-indigenous species that are likely to be invasive of adjacent natural areas.

Current Status/Comments – During the 3rd Quarter, alternatives to hydroseeding on interim and inactive slopes and decks for slope stability and dust control were being used due to the drought. Posi-Shell has been applied to areas in Cell CC-3A and Cell CC-3B. The installation of Closure Turf has been done on the Cell CC-3A and Cell CC-3B south-facing slopes. These systems have been shown to control dust, erosion and surface emissions in the areas where it was used. Blowing dust was observed on City and County top decks and roadways on days when wind gusts exceeded 10 MPH. The use of a soil sealant or vegetation should be considered.

M-4.1.1 (7) (City)

Prior to the initiation of grading activities, the project proponent shall undertake, if necessary, reabandonment procedures as required by the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources.

Current Status/Comments – The two abandoned oil well steel casings in the area north of the office site have been covered with stockpiled soil. The lowering of the well casings and permanent abandonment should be done when the stockpiled soil is removed and the final grade elevation for future liner installation is reached.

The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site should be reabandoned when the other two wells are reabandoned. None of the wells were leaking oils or gas, nor pose a current hazard.

M-4.1.6 / 18 (City)

Survey monuments shall be installed around the perimeters of the outer fill areas at points where they would not be subject to disturbance by landfill development and marking the 500-foot setback from the more restrictive zone. The exact spacing, location, and characteristics of the survey monuments shall be submitted to and approved by the City Local Enforcement Agency (LEA).

Current Status/Comments – The landfill perimeter boundary PVC pipe survey markers have been removed in areas where Edison pole grading took place, as well as near the Flare 11 site pad grading. These boundary markers have not been replaced. All survey markers should be replaced once the Cell CC-4 Part 3 buttress is constructed.

M-4.2.13/29, 30, 32, 33, 34 (City)

The natural biological processes that generate odors in a landfill through anaerobic decomposition cannot be prevented or avoided. However, the LFGs shall be prevented from escaping to the atmosphere through the use of control measures. These measures include using daily and intermediate cover material over deposited wastes, filling any surface cracks with clean dirt as necessary, and extracting LFG through the use of an LFG collection and recovery system and destroying collected gases by combustion.

Operational techniques shall be utilized to control odor sources at the landfill. The size of the working face shall be limited so that the area of waste exposed to the atmosphere is kept to a minimum.

The LFG collection and recovery system shall be installed in phases as each portion of the landfill site is filled. The final system shall contain a network of gas extraction wells, collection system piping, and flaring facilities. Because the LFG generation begins at lower levels of volume and increases during the landfill site life, the gas will be flared initially until sufficient quantities are available for processing into electricity.

If an odor problem should develop, appropriate control measures shall be implemented. These measures include the application of additional dirt daily cover material or more frequent application of the cover material to seal the landfill surface, or adjustments to the wells, equipment, and operation of the LFG collection and recovery system.

To ensure that odors are kept to a minimum, the following odor/LFG monitoring program shall be implemented for the proposed landfill project. The monitoring program shall comply with the requirements of SCAQMD Rule 1150.1 and include:

a. Sample Probe Installation: One monitoring probe per 1,000 feet or as identified by South Coast Air Quality Management District (SCAQMD) and/or Local Enforcement Agency (LEA) in the landfill expansion, and one probe per 650 feet or as identified by SCAQMD and/or LEA in the City Inactive landfill along the landfill perimeter, or whichever is more restrictive shall be installed to identify potential areas of subsurface landfill gas (LFG) migration. These probes shall be monitored to ensure that quantities of LFG beyond regulatory standards do not vent offsite through subsurface soils.

b. Integrated Landfill Surface Sampling: The landfill surface shall be monitored to ensure that the average concentration of total organic compounds over the landfill surface does not exceed SCAQMD's standard of 25 ppm.

c. Ambient Air Samples: 24-hour integrated gas samples and required meteorological data shall be taken to assess any impact the landfill is having on the ambient air quality at the landfill perimeter.

d. Instantaneous Landfill Surface Monitoring: Spot checks on the landfill surface shall be made to determine the maximum concentration of total organic compounds measured as methane, measured at any one point on the surface of the landfill does not exceed the SCAQMD's standard of 500 ppm.

e. Regular Monitoring and Annual Testing: LFG concentrations at perimeter probes, gas collection system headers, the landfill surface, and in ambient air downwind of the landfill shall be monitored once per month or less frequently (but no less than quarterly) as required by the SCAQMD. The LFG collection system shall be adjusted and improved based on quarterly monitoring data and annual stack testing results.

Odor/Landfill Gas - 7.06 (County)

If an odor problem should develop, appropriate control measures shall be implemented. These measures include the application of daily cover material or more frequent application of the cover material to seal the landfill surface, or adjustments to the wells, equipment, and operation of the LFG collection and recover system.

Amendment 45.N - 4.a, 4.c, 4.d (County)

Identify and provide status on the measures currently being implemented as required by the AQMD's Order for Abatement.

An odor patrol program, which would include the following at a minimum:

- *Provide a trained technician to conduct odor patrols in the surrounding neighborhoods at a frequency of one patrol per hour from 6 a.m. to 10 a.m., Monday through Saturday, and during adverse wind conditions.*
- *If odor is detected, identify its potential and/or actual source, including those that may not be related to the Landfill's operation, such as an odorous trash dumpster or transfer trucks.*
- *If odor is determined to be related to the Landfill's operation, take immediate action to reduce the odor. Document the streets patrolled on a map, time of the patrol, potential source of odor, and immediate actions taken by the Landfill.*
- *A landfill gas mitigation plan in preparation for the next rainy season since landfill gas emissions from either the landfill surface or landfill gas control equipment is cited as a potential contributor in the AQMD's Order for Abatement. The plan should include the following at a minimum:*
 - *Description of the site's current Gas Monitoring and Control Plan, including a map showing locations of gas monitoring probes, gas extraction wells, horizontal and vertical gas collection lines, etc.*
 - *Compliance history of the site's landfill gas migration control program from January 1, 2009, to the present quarter as well as any corrective actions.*
 - *Discuss the impacts of the most recent heavy rains on the landfill gas collection system, including identifying locations of damage due to soil erosion, as well as any corrective actions or mitigation measures.*
 - *A work plan that includes preventive measures, such as identifying and filling any surface cracks and installing additional extraction wells, as well as contingency measures.*
 - *An implementation schedule for the above work plan.*

Amendment 45.N - 5 (County)

Include in the Quarterly Dust and Odor Reports, which are required by CUP Condition No. 45.N, the status and effectiveness of mitigation measures 1 through 3 above, and the Odor Mitigation Plan.

Current Status/Comments – Compliance with these mitigation measures, concerning landfill gas monitoring and odor control and detection, is being monitored by a multi-agency team led by the SCAQMD with their monitoring results noted in their reports. Only obvious gas emission sources, odorous operations related to gas and/or gas and landfill liquids, lack of cover, or exposed trash resulting in odor observed during UltraSystems' monitoring visits are reported.

In early July, the monitor drove the Granada Hills neighborhood area from 6:30 to 7:30 a.m. and there were no landfill odors detected in the adjacent neighborhood. There were localized gas odors detected coming from the Cell CC-3A west-facing slope near gas well GW 7041. A packer truck was observed leaking liquids while parked at the exit acceleration lane.

In late July, the monitor drove the Granada Hills neighborhood area from 6:45 to 7:45 a.m. and there were no landfill odors detected in the adjacent neighborhood. Placement of Closure Turf required excavation of odorous soils and trash adjacent to the main access road to uncover the edge of the in-place liner for future tie-ins. Odors were detected and being controlled to the local work area and were not leaving the site. Localized odors were detected along the access road to Cell CC-3A near the new excavation. A malfunctioning gas well, GW 2004, was observed discharging liquids out of the top of the well. BAS repaired the well immediately after Republic notified them of the issue.

In mid-August, the monitor drove the Granada Hills neighborhood area from 6:45 to 7:45 a.m. and there were no landfill odors detected in the adjacent neighborhood. At 8:00 a.m. the monitor

observed liquid trails on the Balboa roadway near Woodley Avenue. They appear to be from packer trucks, possibly from prior days. A localized odor was detected when standing near the stains. A gas leak was detected at the Flare 1 northern-most gas blower's discharge flange.

In early September, the monitor drove the Granada Hills neighborhood area from 6:30 to 7:45 a.m. and there were no landfill odors detected in the adjacent neighborhood, nor in the Rancho Cascades neighborhood.

In late September, the monitor drove the Granada Hills neighborhood area from 6:30 to 7:30 a.m. and there were no landfill odors detected in the adjacent neighborhood. The slow lane on Balboa Boulevard at Woodley Avenue had liquid stain marks that appear to be leaking from packer trucks. There was a slight garbage odor when one is standing right next to the stain. A landfill liquid transfer pipeline near the west end of the CC-3A slope Closure Turf malfunctioned and leaked liquids onto the edge of the dirt access road on the evening of September 25th. The area was covered with soil and treated with deodorizing liquid, but was still extremely odorous when observed mid-morning the next day.

Throughout the 3rd Quarter, the use of Posi-Shell and Closure Turf sealed the fill areas which had intermediate cover and provide enhanced gas recovery and gas-related odor control.

M-4.3.1(37) (City)

As development of the site proceeds, surface drainage systems shall be maintained so that surface runoff is diverted away from working slopes and isolated from landfilled refuse. Onsite drainage channels would be designed per CCR, Title 23, Division 3, Chapter 15, Article 3, §2533(C), and County of Los Angeles Public Works Department, Flood Control Division requirements.

Surface Water - 2.03 (County)

As development of the site proceeds, surface drainage systems shall be maintained so that surface runoff is diverted away from working slopes and isolated from landfilled refuse. Onsite drainage channels would be designed per CCR, Title 23, Division 3, Chapter 15, Article 3, §2546(C), which mandates the requirements for a capital storm event (100-year 24-hour precipitation).

M-4.3.1(38) (City)

Permanent bench drainage ditches shall be installed when final cover is placed on completed portions of the landfill. These ditches shall be lined. Temporary unlined drainage facilities consisting of diversion ditches (V-ditches) where necessary shall directly intercept natural surface runoff. Any intermittent channel flow in the existing canyon bottom shall be captured, channeled, and conveyed into a sedimentation basin. Diversion ditches shall convey surface runoff from the undisturbed areas to the permanent perimeter ditches for safe transport around the landfill footprint. Surface covers of various types, from mulches to vegetation, shall be used to retard erosion from areas of disturbance. In addition, areas of disturbance shall be kept at a minimum during active filling operations.

Surface Water - 2.12 (County)

Permanent bench drainage ditches shall be installed when final cover is placed on completed portions of the landfill. These ditches shall be lined. Temporary unlined drainage facilities consisting of diversion ditches (V-ditches) where necessary shall directly intercept natural surface runoff. Any intermittent channel flow in the existing canyon bottom shall be captured, channeled, and conveyed into a sedimentation basin. Diversion ditches shall convey surface runoff from the undisturbed areas to the permanent perimeter ditches for safe transport around the landfill footprint. Surface covers of

various types, from mulches to vegetation, shall be used to retard erosion from areas of disturbance. In addition, areas of disturbance shall be kept at a minimum during active filling operations.

Current Status/Comments – It is assumed by UltraSystems that the permanent drainage V-ditches and channels are designed in accordance with the referenced regulations. The design drawings and reports should be available for review and use.

Surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas and most conveyance V-ditches were unlined.

Cell CC-4 Part 2 had a drainage system to a low-point sump and discharge piping was installed.

M-4.3.1(39) (City)

As filling operations progress upward in elevation and laterally across the canyon, both permanent and temporary drainage facilities shall be used to provide appropriate drainage protection. The lower elevation portions of the landfill working face shall be placed under final cover as soon as final grade is attained, and bench ditches shall be installed that will connect to adjacent, permanent perimeter ditches. These ditches shall connect directly to the temporary diversion drainage ditches that will protect the active landfill areas from natural surface runoff.

M-4.18 / 178 (City)

The maximum permitted elevations for the landfill shall not be allowed to be exceeded at any time during landfill development and shall be verified through survey control points.

Current Status/Comments – A map showing areas that are at the final elevations and which should have final cover should be available for review. Documents showing current filled elevations should also be available onsite for review. These conditions were not monitored.

M-4.3.1(40) (City)

In order to monitor the effectiveness of those measures designed to prevent pollution from entering the offsite stormwater system, the project proponent shall be required to apply for coverage under the SWRCB General Construction Activities Stormwater Permit Programs.

M-4.3.1(45) (City)

An erosion control plan would be implemented by the project proponent to prevent stormwater pollution from construction activity. Construction materials, equipment and vehicles would be stored or parked in areas protected from stormwater runoff. Construction material loading and unloading would be in designated areas to minimize any washout due to stormwater runoff. Pre-construction controls would be implemented to include the use of a sandbagging system, including sandbag check dams and sandbag desilting basins, which would be used to limit runoff velocities and minimize sediment in storm water runoff.

Surface Water 2.14 (County)

An erosion control plan would be implemented by the project proponent to prevent stormwater pollution from construction activity. Construction materials, equipment and vehicles would be stored or parked in areas protected from stormwater runoff. Construction material loading and unloading would be in designated areas to minimize any washout due to stormwater runoff. Pre-construction controls would be implemented to include the use of a sandbagging system, including sandbag check

dams and sandbag desilting basins, which would be used to limit runoff velocities and minimize sediment in storm water runoff.

Current Status/Comments – The current erosion control plans should be available for agency and monitor review. This plan should be a living document that keeps up with construction activities.

M-4.3.1(41) (City)

The surface water collection system shall be designed to collect runoff and collect/retain suspended solids. Water leaving the sedimentation basins shall be monitored in accordance with NPDES requirements.

M-4.3.1(43) (City)

Sediment shall be cleaned out of the sedimentation basins after every significant storm.

Surface Water 2.10 (County)

The surface water collection system shall be designed to collect runoff and collect/retain suspended solids. Water leaving the sedimentation basins shall be monitored in accordance with NPDES requirements. Sediment shall be cleaned out of the sedimentation basins after every significant storm.

Current Status/Comments – In early July, Basin A was cleared of sediment, and slopes that previously sloughed soil into the basin were repaired. Basin B was cleared of sediment. The outlet risers at both basins were not cleaned and had areas of standing water, a mosquito concern. The CC-3B basin was cleared of sediment and debris. Inlet water flow areas were HDPE lined. The low-flow outlet was still plugged with soil and debris. The concrete outlet channel supporting dirt slopes had deep soil erosion rills that were not yet repaired. A corrugated steel drainage channel was constructed on an Old City South landfill slope. No safety restrictions were seen at the top to limit accidental or attractive nuisance use as a slide. The terminal basin was cleared of sediment and was dry. The planned installation of a skimmer system on the outlet risers had not yet started. Water into the terminal basin was blocked by a dirt berm at the entrance of the basin and water was ponding. The pump at the dirt berm was not being used. Mosquito breeding is a concern.

In late July, Basin A was clean and dry. The outlet risers area had not had sediment removed from the rock or risers. Basin B was clean and dry. The outlet risers areas had not had the sediment removed from the rock and risers. The back native hillside had windblown litter. The terminal basin was clear of sediment and inlet surface channel water was blocked by a dirt berm.

In mid-August, Basin D was clear of sediment and was dry.

M-4.3.1(46) (City)

A preventive maintenance program would be implemented by the project proponent, including inspection of facility equipment, systems, and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater. This program applies to the onsite drainage ditches; rip-rap; berms and dikes; dust control; silt fences; diversion grading; and pavement surfaces. Each system and piece of stationary equipment would be inspected monthly. Procedures for inspection would vary, due to the piece of equipment or system. However, the major elements of the inspection program would include checking for cracks or structural failures, inspecting parts or pieces of equipment nonfunctioning, checking for the degradation or deterioration of operating units, and investigating the need for cleaning or emptying units. A summary report of these monitoring results and the corrective actions taken will be disseminated in each newsletter with a more detailed report on the web site and in the annual report.

Surface Water 2.15 (County)

Surface Water Preventive Maintenance Program

A preventive maintenance program will be implemented by the permittee, including inspection of facility equipment, systems, and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater. This program applies to the onsite drainage ditches, rip-rap, berms and dikes, dust control, silt fences, diversion grading, and pavement surfaces. Each system and piece of equipment will be inspected monthly.

Procedures for inspection would vary based on the piece of equipment or system. However, the major elements of the inspection program will include checking for cracks or structural failures, inspecting parts or pieces of equipment nonfunctioning, checking for the degradation or deterioration of operating units, and investigating the need for cleaning or emptying units.

Current Status/Comments – A preventative maintenance program with inspection of facility equipment, systems and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater should be performed on a monthly basis, with a summary report issued on a quarterly basis.

In early July, the San Fernando Road retaining wall had additional soils slough down onto the wall fence. The oak tree adjacent to the San Fernando Road retaining wall had the branches trimmed to eliminate contact with the Verizon communication cable on the DWP poles. The removal of soils and repair of the fence, stabilization of the slope, and re-establishing the wall drainage system had not yet started. The depression on the Old City Landfill slope south of the landfill office appears to have had additional settlement and soil movement. The Basin D outlet channel liner was still lifted, with tumbleweeds and debris under the liner. Maintenance had not yet been performed.

In late July, the terminal basin outlet risers skimmer system modification had not started. There still was a dirt berm at the entrance to the basin blocking any water. There was water entering the basin coming from a 24" drainage pipe from the Old City Landfill and from a seep in the inlet concrete channel. The 24" drainage source could be Deck C potable irrigation water. The seep appears to be alluvial water from the alluvial cut-off wall system. The alluvial cut-off wall pumping system may not be functioning properly. Water was ponding and mosquito breeding is a concern. The access road hillside slope south of the basin's inlet had a wet section and could be a future road stability issue.

In mid-August, more soil sloughing had occurred at the San Fernando Road retaining wall. The depth of soils and rock behind the fence and soil in front of the wall has increased. The drainage V-ditch above the Flare 1 site had the slope soil sloughed away. The County sage mitigation slope erosion rails have not been repaired and no erosion control wattles installed. The Basin D outlet channel HDPE liner was lifted, and debris and tumbleweed were under the leading edge, which could cause total blockage in a storm.

M-4.4.1(60) (City)

Venturan Coastal Sage Scrub

A detailed conceptual mitigation plan shall be prepared by the project proponent and contain specific information on planting, maintenance, and monitoring. A revegetation plan that includes Coastal sage scrub restoration can feasibly occur onsite. The implementation of this plan will provide onsite mitigation greater than 1:1 to offset the loss of coastal sage scrub.

Biota - 4.27 (County)

Venturan Coastal Sage Scrub: A detailed conceptual mitigation plan shall be prepared by the permittee and shall contain specific information on planting, maintenance, and monitoring. A revegetation plan that includes coastal sage scrub restoration can feasibly occur onsite. The implementation of this plan will provide onsite mitigation greater than 1:1 to offset the loss of coastal sage scrub.

Current Status/Comments – In late July, Deck C sage mitigation was doing well. Signs of summer die-off was occurring. Deck B had no sage mitigation activity.

In mid-August, Deck C sage mitigation was doing well. There were some areas that needed removal of invasive and non-native plants. Bobcat tracks were observed in the PM-10 tree area. Decks B and A native plant areas need non-native plants removed. There was no work being done in the Deck B sage area except for stockpiling soil.

In late September, Deck C sage mitigation PM-10 trees were growing and doing well. No understory planting had occurred. The Deck C sage mitigation was doing well. Trimming and invasive plant removal needs to be performed to help native plants get established.

M-4.4.2/69 (City)

Potential candidate mitigation sites have been identified by the project proponent in conjunction with resource agencies for consideration to compensate for impacts on riparian and wetland resources as a result of project development. These sites include Bull Creek, Bee Canyon and East Canyon, which are located proximate to the project site. Prior to the development of any detailed mitigation plans and drawings, the final selection will be determined cooperatively by the CDFW, Corps, SWRCB, and other regulatory agencies in conjunction with the City and project proponent.

Current Status/Comments – The City Attorney, City DWP, and Republic were finalizing an agreement to use the Chatsworth Reservoir as a wetland mitigation site. The agreement will not involve the mitigation area being transferred to City Recreation and Parks. The agreement, once finalized, will be delivered to the DWP Board for approval and then to the City Council for approval. Republic is preparing an addendum to the MND. Republic is going to provide the U.S. Army Corp of Engineers and the California Department of Fish and Game an update in December.

M-4.9.3(110) (City)

Landfill employees shall watch for any illegal dumping activities on or around the project site. The landfill litter control crew shall provide cleanup service for areas within one mile of the project site. The phone number where this service will be requested will be provided in the quarterly newsletter and on the web site.

Current Status/Comments – In early July, there was a significant amount of broken concrete, rock, and rubble dumped on the Sierra Highway road shoulder near the I-14 overpass. Also observed were trash-filled bags and debris in the same area. Trash was observed in the back native area of Basin A. Basin B had windblown litter on the back eastern native slope.

In late July, no litter or debris were observed on Sierra Highway. The back native eastern slope of Basin B had windblown litter.

In mid-August, no litter or debris were observed on Sierra Highway. The back native eastern slope of Basin B had windblown litter. There was windblown litter adjacent to the 36-inch main gas recovery header that paralleled the westside drainage channel.

In early September, the back native area of Basin A had windblown litter. The far eastern native slope of Basin B had windblown litter. Illegally dumped trash and debris were observed on Sierra Highway near the I-14 overpass.

In late September, Sierra Highway near the I-14 overpass had windblown litter. Just north of the overpass was an 18-foot boat illegally dumped on the roadway shoulder. Windblown debris was observed near the terminal basin's exterior wall facing the San Fernando Road block wall.

M-4.9.4(125) (City)

The landfill operator shall maintain perimeter fencing in and around the site in accordance with CCR, Title 14, § 17658 to discourage illegal entry to the landfill. Where existing topography conditions create an effective barrier, no perimeter fencing shall be installed. Entrance and access gates shall remain locked when the landfill facility is not in operation. All existing perimeter fencing shall be inspected on a routine basis by the landfill operator, and necessary repairs shall be made to ensure a continued deterrent for unauthorized entry to the project site. Additionally, the landfill operator shall maintain posted "no trespassing" signage at the exterior perimeter fencing nearest the project site entrance.

Current Status/Comments – Throughout the 3rd Quarter 2017, the south perimeter oil field gate was observed to be locked. The northern gate to the landfill was damaged and lying on the ground. The northern entrance was not being controlled.

M-4.19.2(191) (City)

Prior to the commencement of initial earth excavation, specific sections of the City/County Landfill Project area shall be resurveyed as a precautionary measure to minimize potential loss of undiscovered paleontological resources. Specific sections of the project area to be resurveyed shall be as determined by the intended cut-and-fill areas proposed for landfill development. As new areas for excavation are identified by the project proponent, an evaluation of those areas shall be made based on the prior survey results and consultation with appropriate technical specialists.

Ecological Significance 62 (County)

The Permittee shall develop and implement a program to identify and conserve all significant archaeological and paleontological materials found onsite pursuant to Part VII of the IMP. If the Permittee finds any evidence of aboriginal habitation or fossils during earthmoving activities, Landfill operations shall immediately cease in that immediate area, and the evidence and area shall be preserved until a qualified archaeologist or paleontologist, as appropriate, makes a determination as to the significance of the evidence. If the determination indicates that the archaeological or paleontological resources are significant, the resources shall be recovered to the extent practicable prior to resuming Landfill operations in that immediate area of the Landfill.

Current Status/Comments – Throughout the third quarter of 2017, a Republic paleontological consultant was monitoring grading activities in and adjacent to Cell CC-4 Part 2.

Summary of Requested Documents

The following documents, reports and plans are recommended to be made available at the site for agency and monitor review in order to assist in streamlining the monitoring.

- a) Current Fill Sequence Plan.
- b) A plan showing areas that are inactive for 180 days or longer, with records tracking fill areas and interim reclamation and revegetation, including the timing of proposed work, as well as a plan showing current and projected areas to be within ten feet of the limits of fill.
- c) Maps showing areas that are at final elevation, and bench ditches that will connect to drainage ditches to protect against natural surface runoff.
- d) The current erosion control plans should be available for agency and monitor review.
- e) Site drainage plans, including surface and underdrain systems, with complementing revegetation plans.
- f) A plan/ report of the liner interceptor ditches design/ installation to ensure that surface runoff is appropriately conveyed to the existing flood control channel directly east of the project site entrance.
- g) Comprehensive geotechnical reports.
- h) A preventative maintenance plan and summary of monitoring reports of inspections of facility equipment, systems and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater.

Conclusions

In this reporting period, UltraSystems has monitored the conditions and/or mitigation measures for the City and County, as shown on the Mitigation Monitoring Summary spreadsheets.

As shown by the Non-Compliant and Further Review Needed sections above, the landfill is actively working toward being fully compliant with conditions and/or mitigation measures, with no non-compliant conditions observed, as Republic was in the engineering, planning, or implementation phases of each. Furthermore, monitoring of the tasks on these Mitigation Monitoring Summary spreadsheets tracks progress toward being fully compliant. Notwithstanding the above, air quality issues are not being actively monitored by UltraSystems, and may not be compliant.

The 2017 Third Quarter Mitigation Monitoring Summary spreadsheets track the progress and completion of tasks as they were accomplished during this quarterly period.

**Sunshine Canyon Landfill City Mitigation Monitoring Summary
(07-01-2017 through 09-30-2017)**

Line #	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Second Quarter 2017																Third Quarter 2017																						
					4/18/2017	Status*	Further Review Needed/Comments**	Resolved*	5/9/2017	Status*	Further Review Needed/Comments**	Resolved*	5/23/2017	Status*	Further Review Needed/Comments**	Resolved*	6/20/2017	Status*	Further Review Needed/Comments**	Resolved*	7/11/2017	Status*	Further Review Needed/Comments**	Resolved*	7/25/2017	Status*	Further Review Needed/Comments**	Resolved*	8/14/2017	Status*	Further Review Needed/Comments**	Resolved*	9/12/2017	Status*	Further Review Needed/Comments**	Resolved*	9/26/2017	Status*	Further Review Needed/Comments**	Resolved*			
1	Project Manager																																										
2																																											
3																																											
4	Q - A.3.		Definitions	info	/				/				/				/				/				/				/				/				/						
5	Q - A.6.		Submit Annual Reports	June yearly	/				/				/				/				/				/				/				/				/						
6	Q - A.10.		Provision of Fees	yearly	/				/				/				/				/				/				/				/				/						
7	Q - B.1.		Permitted/Prohibited Landfill Uses	yearly	/				/				/				/				/				/				/				/				/						
8	Q - B.2		Approval of Landfill	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE
9	Q - B.2.c.		Ancillary Uses and Facilities	ongoing	✓	FRN	I-f	✓	FRN	I-g	✓	FRN	I-h	✓	FRN	I-i	✓	FRN	I-j	✓	FRN	I-k	✓	FRN	I-l	✓	FRN	I-m	✓	FRN	I-n	✓	FRN	I-o	✓	FRN	I-p	✓	FRN	I-q	✓	FRN	I-r
10			Ancillary Uses and Facilities																																								
11	Q - B.2.d (3)		10 Year Phase Review	2015	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE
12			10 Year Phase Review																																								
13	Q - B.4.d.		Inert/Exempt Materials	info	/				/				/				/				/				/				/				/				/				/		
14	Q - B.5.a.		Prohibited Waste	info	/				/				/				/				/				/				/				/				/				/		
15	Q - B.6.		Waste Diversion	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE
16	Q - C.3.g.		Paved Access Roads	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE
17	Q - C.3.h.		Surfacing of Access Roads	ongoing	✓	FRN	I-f	✓	FRN	I-g	✓	FRN	I-h	✓	FRN	I-i	✓	FRN	I-j	✓	FRN	I-k	✓	FRN	I-l	✓	FRN	I-m	✓	FRN	I-n	✓	FRN	I-o	✓	FRN	I-p	✓	FRN	I-q	✓	FRN	I-r
18	Q - C.5.		Graffiti Removal and Deterrence	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE
19	Q - C.10.c.		Evaluation of Beneficial Gas Usage	June yearly	✓	C	I-f	✓	C	I-g	✓	C	I-h	✓	C	I-i	✓	C	I-j	✓	C	I-k	✓	C	I-l	✓	C	I-m	✓	C	I-n	✓	C	I-o	✓	C	I-p	✓	C	I-q	✓	C	I-r
20	Q - C.10.d. (1)		Alternative Fuel Vehicles	status																																							
21	Q - C.10.d. (2)		Alternative Fuel Refuse Collection Trucks	status																																							
22	Q - C.12.a.		Technical Advisory Committee	info	/				/				/				/				/				/				/				/				/				/		
23	Q - C.12.c.		Contract for Mitigation Monitoring	info	/				/				/				/				/				/				/				/				/				/		
24	Q - C.12.c.		Contract for Mitigation Monitoring-5 years	info	/				/				/				/				/				/				/				/				/				/		
25																																											
26	T - 4		Fire Plan	status	✓	FRN	I-f	✓	FRN	I-g	✓	FRN	I-h	✓	FRN	I-i	✓	FRN	I-j	✓	FRN	I-k	✓	FRN	I-l	✓	FRN	I-m	✓	FRN	I-n	✓	FRN	I-o	✓	FRN	I-p	✓	FRN	I-q	✓	FRN	I-r
27	T - 5.j.		Trip Diversion	status	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE

* C = Compliant, NC = Non-Compliant, FRN = Further Review Needed, R = Resolved

** See Appendix I for Comments

Checkmark = Condition or mitigation was monitored

/ = Yearly or non-ongoing monitoring frequency

**Sunshine Canyon Landfill City Mitigation Monitoring Summary
(07-01-2017 through 09-30-2017)**

Line #	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Second Quarter 2017																Third Quarter 2017																				
					4/18/2017	Status*	Further Review Needed/Comments**	Resolved*	5/9/2017	Status*	Further Review Needed/Comments**	Resolved*	5/23/2017	Status*	Further Review Needed/Comments**	Resolved*	6/20/2017	Status*	Further Review Needed/Comments**	Resolved*	7/11/2017	Status*	Further Review Needed/Comments**	Resolved*	7/25/2017	Status*	Further Review Needed/Comments**	Resolved*	8/14/2017	Status*	Further Review Needed/Comments**	Resolved*	9/12/2017	Status*	Further Review Needed/Comments**	Resolved*	9/26/2017	Status*	Further Review Needed/Comments**	Resolved*	
28	T - 6		Satisfactory Street Lighting	status	/				/				/				/				/				/				/				/				/				
29																																									
30	M - 4.1.1	7	Reabandonment Procedures	status	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		
31	M - 4.1.4	11	Post-5.0 Earthquake Analysis	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		
32	M - 4.2.12	27	Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
33	M - 4.2.12		Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
34	M - 4.2.12	28	Site Erosion-Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
35	M - 4.2.12		Site Erosion-Cell Height	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
36	M - 4.2.12		Site Erosion-Sealant	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		
37	M - 4.2.13	29	LFG Control Measures	ongoing	/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		
38	M - 4.2.13	30	Operational Odor Control Techniques	ongoing	/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		
39	M - 4.2.13	31	Solid Waste Compaction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
40	M - 4.2.13	32	LFG Collection and Recovery System	ongoing	/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		
41	M - 4.2.13	33	Odor Control Measures	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		
42	M - 4.2.13	34	Odor/LFG Monitoring	ongoing	/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		
43			Periodic LFG Monitoring		/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		
44	M - 4.3.2	52	LFG Migration Mitigation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		
45	M - 4.3.2	57	Dust Control Water	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
46	M - 4.4.2	69	Offsite Mitigation Sites	status	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		
47	M - 4.4.2	70	Purchasing Wetland Credit	status	/				/				/				/				/				/				/				/				/				
48	M - 4.4.2	71	Funding-Invasive Species Eradication Program	status	/				/				/				/				/				/				/				/				/				
49	M - 4.6	85	Site Lighting	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
50	M - 4.7.1	86	Open Space Buffer Area	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
51	M - 4.9.3	106	Litter Minimization	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
52	M - 4.9.3	107	Litter/Debris Containment	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
53	M - 4.9.3	108	Vehicle Tarping Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
54	M - 4.9.3	109	Periodic Offsite Litter Pickup	ongoing																																					

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55	M - 4.9.3	110	Illegal Dumping Activities	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
56	M - 4.9.3	111	Radio Dispatch Litter Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
57	M - 4.9.3	112	Litter Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
58	M - 4.9.5	127	Address Concerns of Citizens' Advisory Committee	ongoing	/				/				/				/				/				/				/				/				/			
59	M - 4.9.6	128	Landfill Gas/Collection System-Unsafe Methane Levels Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
60	M - 4.9.6	129	Landfill Gas/Collection System-Detection/Training	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
61	M - 4.9.6	130	Landfill Gas/Collection System-Risk Mitigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
62	M - 4.16.4	176	Reclaimed Water	status	/				/				/				/				/				/				/				/				/			
63	M - 4.16.4	177	Water Conservation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
64																																								
82	Civil & Geotechnical Engineer																																							
83																																								
84																																								
85	M - 4.1.1	2	Grading Outside of Conceptual Grading Plan Area	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
86	M - 4.1.1	3	Unsuitable Material Removal/Buffer Zones	ongoing																																				
87	M - 4.1.1	4	Grading Outside of Landfill Footprint	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
88	M - 4.1.1	5	Grading Activity Compliance	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
89	M - 4.1.2	8	Landslide Guidelines	ongoing																																				
90	M - 4.1.2	9	Soil Stabilization	ongoing																																				
91	M - 4.1.4	10	Landfill Design	ongoing																																				
92	M - 4.1.4	11	Earthquake Operations Checklist	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
93	M - 4.1.5	12	Geologic Hazards - Liquefaction	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
94	M - 4.1.5	13	Design/Construction-Liquefaction	ongoing																																				
95	M - 4.1.5	14	Design/Construction-Containment Structures	ongoing																																				
96	M - 4.1.6	15	Refuse Slope Gradients	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
97	M - 4.1.6	16	Cut and Fill Slope Gradients	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
98	M - 4.1.6	17	Final Slope Factors of Safety	ongoing																																				

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99	M - 4.1.6	18	Survey Monuments	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
100	M - 4.3.2	47	Landfill Liner	ongoing																																				
101	M - 4.3.2	48	Landfill Liner	ongoing																																				
102	M - 4.3.2	54	Preliminary Closure/Postclosure Plan	status																																				
103	M - 4.3.2	55	Landfill Design/Operation/Final Closure Monitoring	status																																				
104	M - 4.3.2	56	Cover Application	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
105	M - 4.14.1	155	Access Roadway Grade	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
106	M - 4.18	178	Landfill Elevation Exceedance	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
107																																								
108	Hydrologist																																							
109																																								
110																																								
111	M - 4.1.4	11	Earthquake Operations Checklist	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
112	M - 4.3.1	36	Surface Water Infiltration Minimization	ongoing																																				
113	M - 4.3.1	37	Surface Drainage Systems	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n	
114	M - 4.3.1	38	Permanent/Temporary Ditches	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n	
115	M - 4.3.1	39	Drainage Protection	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n	
116	M - 4.3.1	40	SWRCB Permit Coverage	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n	
117	M - 4.3.1	41	Surface Water Collection System	ongoing																																				
118	M - 4.3.1	42	Surface Water Quality Monitoring	ongoing																																				
119	M - 4.3.1	43	Sediment Basin Maintenance	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
120	M - 4.3.1	44	Final Landfill Cover	ongoing																																				
121	M - 4.3.1	45	Erosion Control Plan	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
122	M - 4.3.1	46	Preventive Maintenance Program	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
123	M - 4.3.2	49	Interception of Groundwater Seepage	ongoing																																				
124	M - 4.3.2	50	LCRS/Leachate Monitoring	ongoing																																				
125	M - 4.3.2	51	LCRS Monitoring	ongoing																																				
126																																								
127	Biologist																																							

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128																																											
129																																											
130	M - 4.1.1	6	Slope Erosion Control	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n				
131	M - 4.2.11	23	Revegetation/Excavation	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n				
132	M - 4.2.12		Temporary Vegetation Cover	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n				
133	M - 4.4.1	60	Coastal Sage Scrub Mitigation Plan	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	R	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n				
134	M - 4.4.1	61	Coastal Sage Scrub Seeding	ongoing																																							
135	M - 4.4.1	62	Mariposa Lily Mitigation Plan	ongoing	/				/				/				/				/				/				/				/				/						
136	M - 4.4.1	63	San Diego Horned Lizard Mitigation	ongoing	/				/				/				/				/				/				/				/				/						
137	M - 4.4.1	64	California Gnatcatcher Surveys	ongoing	/				/				/				/				/				/				/				/				/						
138	M - 4.4.1	65	Least Bell's Vireo Surveys	ongoing	/				/				/				/				/				/				/				/				/						
139	M - 4.4.1	66	Western Burrowing Owl Surveys	ongoing	/				/				/				/				/				/				/				/				/						
140	M - 4.4.1	67	Migratory Bird Treaty Act	ongoing	/				/				/				/				/				/				/				/				/						
141	M - 4.4.1	68	Raptor Nests Habitat	ongoing	/				/				/				/				/				/				/				/				/						
142	M - 4.4.3	72	Native Tree Mitigation	ongoing																																							
143	M - 4.4.3	73	Nonnative Tree Mitigation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
144	M - 4.4.3	74	Mitigation Tree Planting	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
145	M - 4.4.3	75	Tree Planting Mitigation Site Prep	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
146	M - 4.4.3	76	Poultry Wire Screen	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
147	M - 4.4.3	77	Backfill Material	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
148	M - 4.4.3	78	Tree Planting Procedure	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
149	M - 4.4.3	79	Tree Area Mulching	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
150	M - 4.4.3	80	Tree Irrigation/Fertilization	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
151	M - 4.4.3	81	Irrigation System	ongoing																																							
152	M - 4.4.3	82	Annual Tree Monitoring Report	annual																																							
153	M - 4.9.2	96	Vector Activity Monitoring	ongoing																																							
154	M - 4.9.2	97	Vector Elimination	ongoing																																							
155	M - 4.9.2	98	Fly Control	ongoing																																							
156	M - 4.9.2	99	Rodent Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				

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[illegible]

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185	M - 4.5.2	84	Landfill Equipment-Noise Reduction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
186																																								
187	Hydrology, Hazardous Waste / Risk of Upset																																							
188																																								
189																																								
190	M - 4.3.2	53	Groundwater Monitoring Wells	ongoing																																				
191	M - 4.3.2	58	Operation as Class III Landfill	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
192	M - 4.3.2	59	Underground Fuel Storage	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
193	M - 4.9.1	90	Refuse Inspection Program	ongoing																																				
194	M - 4.9.1	91	Hazardous Waste Load-Checking	status																																				
195	M - 4.9.1	93	Hazardous Waste Detection Training	status																																				
196	M - 4.9.1	94	Spill Response Program	status																																				
197	M - 4.9.4	115	Safety Inspections/Checklists	ongoing																																				
198	M - 4.9.4	118	Accident/Injury reports, Inspections	status																																				
199	M - 4.9.4	121	Fire Prevention Plan	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
200	M - 4.9.4	123	Personal Protective Equipment	ongoing																																				
201	M - 4.9.4	125	Site Access/Fencing	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
202	M - 4.14.1	147	Fire Response Capabilities	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
203	M - 4.14.1	148	Hydrant Installation	ongoing																																				
204																																								
205	Archaeologist																																							
206																																								
207																																								
208	M - 4.19.1	183	Archaeological Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
209	M - 4.19.1	184	Onsite Archaeologist	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
210	M - 4.19.1	185	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
211	M - 4.19.1	186	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
212																																								
213	Paleontologist																																							
214																																								
215																																								

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216	M - 4.19.2	187	Paleontological Resources Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
217	M - 4.19.2	188	Paleontological Resources Excavation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
218	M - 4.19.2	189	Paleontological Resources Training	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
219	M - 4.19.2	190	Paleontological Resources Recovery	ongoing																																				
220	M - 4.19.2	191	Paleontological Resources Inspection	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n	

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1	Project Manager																																						
2																																							
3																																							
4	Amendment 45.N - 1	45N	Daily Cover Materials	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
5	Amendment 45.N - 3	45N	Daily Cover Procedure	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
6	Amendment 45.N - 4.a	45N	Order for Abatement Status	ongoing	/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/	I-n	
7	Amendment 45.N - 4.c	45N	Odor Patrol Program	ongoing	/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/	I-n	
8	Amendment 45.N - 4.d	45N	Landfill Gas Mitigation Plan	ongoing	/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/	I-n	
9	Amendment 45.N - 5	45N	Dust and Odor Reports	ongoing	/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/	I-n	
10																																							
11	Combined Site & Bridge Area -20.A	20.A	Joint Powers Authority	info	/				/				/				/				/				/				/				/						
12	Combined Site & Bridge Area -20.F	20.F	Mitigation Reporting and Monitoring Program Amendment	status	/				/				/				/				/				/				/				/						
13	Landfill Capacity - 27	27	Tipping Fees for Partial Loads/Peak Hours	status																																			
14	Grading & Drainage-41.A -D	41A-D	Water Conservation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
15	Revegetation - 44.F	44.F	Revegetation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
16	Fugitive Dust - 45.B	45.B	Working Face Areas	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
17	Fugitive Dust - 45.F	45.F	Inactive Areas Monitoring	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	R	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n
18	Fugitive Dust - 45.I	45.I	Cleaning of Roads	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
19	Litter Control - 46.A - .D	46A-D	Litter Control Program	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-i		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-m		✓	C	NONE
20	Gas - 52	52	Landfill Gas Collection System	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	R	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n
21	Traffic - 57	57	Traffic Improvements	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
22	Traffic - 60	60	Street Light Installation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
23	Traffic - 61	61	Traffic Minimization	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
24	Permittee Fees - 64 - 72	64-72	Permittee Fees	info	/				/				/				/				/				/				/				/						
25	Permittee Fees - 69	69	Permittee Fees-Contributions	info	/				/				/				/				/				/				/				/						
26	Permittee Fees - 70	70	Permittee Fees	info	/				/				/				/				/				/				/				/						
27	Permittee Fees - 72	72	Permittee Fees	info	/				/				/				/				/				/				/				/						
28	Alternative Fuel Vehicles - 77.A	77.A	Alternative Fuel Vehicles-Light Duty	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
29	Alternative Fuel Vehicles - 77.B	77.B	Alternative Fuel Vehicles-Refuse/Collection Trucks	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
30	Alternative Fuel Vehicles - 77.C	77.C	Alternative Fuel Vehicles-Report	status																																			
31	Alternative Fuel Vehicles - 77.D	77.D	Alternative Fuel Vehicles-heavy-duty, alternative fuel off-road equipment pilot program	status																																			
32	Alternative Fuel Vehicles - 77.E	77.E	Alternative Fuel Vehicles-Non-diesel Requirements	status																																			

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33	Alternative Fuel Vehicles - 77.F	77.F	Alternative Fuel Vehicles-Non-diesel Truck Trip Requirements	status																																		
34	Alternative Fuel Vehicles - 77.G	77.G	Alternative Fuel Vehicles-Clean Fuel Demo Program	status																																		
35	Alternative Fuel Vehicles - 77.H	77.H	Alternative Fuel Vehicles-Compliance Evaluation	status																																		
36	Air Quality Monitoring - 81	81	Air Quality Monitoring-Testing	ongoing	/			/				/				/				/			/			/				/			/					
37			Air Quality Monitoring-Testing																																			
38	IMP - Part I.A	IMP1	Air Quality Monitoring-Testing	ongoing	/			/				/				/				/			/			/				/			/					
39			Air Quality Monitoring-Testing																																			
40	IMP - Part VI	IMP6	Air Quality Monitoring-Testing	ongoing	/			/				/				/				/			/			/				/			/					
41																																						
42	MMRS-12/01/06		Mitigation Monitoring and Reporting Summary	info	/			/				/				/				/			/			/				/			/					
43			Permits																																			
44	Geology - 1.15		Permittee's On-site Solid Waste Recovery and Recycling Program	status	/			/				/				/				/			/			/				/			/					
45	Surface Water - 2.09		SWRCB Permit Coverage	ongoing	/			/				/				/				/			/			/				/			/					
46	Surface Water - 2.15		Surface Water Preventive Maintenance Program	ongoing	✓	FRN	I-f	✓	FRN	I-g	✓	FRN	I-h	R	✓	FRN	I-i	✓	FRN	I-j	✓	FRN	I-k	✓	FRN	I-l	R	✓	FRN	I-m	✓	FRN	I-n					
47	Groundwater - 3.13		Groundwater-LFG Migration Mitigation	ongoing																																		
48	Groundwater - 3.14		Groundwater-Monitoring Wells	ongoing																																		
49	BIOTA – 4.05		Annual Fee Submission for SEA Studies	status	/			/				/				/				/			/			/				/			/					
50	BIOTA – 4.06		Buffer Zone Maintenance as Nature Preserve	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
51	BIOTA – 4.07		Buffer Zone Maintenance-Vegetation	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
52	BIOTA – 4.08		Ridgeline Maintenance-Remain Undisturbed	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
53	BIOTA – 4.47		Cleaning of Equipment	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
54	BIOTA – 4.48		Monitoring of Vector-Attracting Items	ongoing																																		
55	BIOTA – 4.49		Salvaged Material Storage-Vector Control	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
56	BIOTA – 4.50		Vector Activity Monitoring	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
57	Air Quality - 6.03		Dust Emission Minimization	ongoing	✓	C	NONE	✓	FRN	I-g	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	FRN	I-k	✓	C	NONE	✓	C	NONE	✓	C	NONE				
58	Air Quality - 6.04		Usage of Cut Material for Cover	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
59	Air Quality - 6.05		Operations in Accordance with SCAQMD/DOPW Requirements	info	/			/				/				/				/			/			/				/			/					
60	Air Quality - 6.06		Landfill Gas Control/Extraction System/Monitoring	ongoing	/			/				/				/				/			/			/				/			/					
61	Air Quality - 6.07		Flaring Systems	info	/			/				/				/				/			/			/				/			/					
62	Air Quality - 6.08		Management of Truck Arrivals	ongoing																																		
63	Air Quality - 6.10		Refuse Truck Mitigation	status																																		
64	Air Quality - 6.11		Light Duty Alternative Fuel Vehicles	status	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				

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65	Air Quality - 6.11		Alternative Fuel Refuse Collection/Transfer Trucks	status																																			
66	Air Quality - 6.11		Alternative Fuel Vehicle Report Submission	status																																			
67	Air Quality - 6.11		Heavy-duty, Alternative Fuel Off-Road Equipment Pilot Program	status																																			
68	Air Quality - 6.11		Non-Diesel, Alternative Fuel Vehicles-Transfer/Collection Trucks	status																																			
69	Air Quality - 6.11		Non-Diesel, Alternative Fuel Vehicles Truck Trips	status																																			
70	Air Quality - 6.11		Clean Fuel Demonstration Program	status																																			
71	Air Quality - 6.11		Compliance Evaluation	status																																			
72	Odor/Landfill Gas – 7.01		Landfill Gas Escape Prevention	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
73	Odor/Landfill Gas – 7.02		Landfill Gas Collection System	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
74	Odor/Landfill Gas – 7.04		Gas Collection/Flare System Risk Mitigation	ongoing																																			
75	Odor/Landfill Gas – 7.05		Wellhead Awareness	status	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	R	✓	FRN	I-i		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
76	Odor/Landfill Gas – 7.06		Odor Control Measures	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	R	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n
77	Odor/Landfill Gas – 7.07		Gas Recovery and Sale	status	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	R	✓	FRN	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n
78	Traffic/Circulation – 8.03		Street Light Installation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
79	Traffic/Circulation – 8.04		Truck Traffic Minimization	status																																			
80	Traffic/Circulation – 8.08		Tipping Fees for Partial Loads/Peak Hours	status																																			
81	Traffic/Circulation – 8.10		Nighttime Landfill Operations Feasibility	status	/			/			/			/			/			/			/			/			/			/			/				
82	Traffic/Circulation – 8.11		Parking Management along San Fernando Road	status	/			/			/			/			/			/			/			/			/			/			/				
83	Traffic/Circulation – 8.13		Adequate Queuing	status																																			
84	Visual – 10.03		Landfill Flare Locations	status	/			/			/			/			/			/			/			/			/			/			/				
85	Visual – 10.04		Confinement of Excavation Cover Material	status																																			
86	Visual – 10.05		Lighting Requirements	status																																			
87	Visual – 10.11		Litter Control Program	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
88	Visual – 10.11		Solid Waste Load Procedures-Improperly Covered/Contained	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
89	Visual – 10.11		Debris Removal at Entrance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
90	Visual – 10.11		Litter Control-Fencing	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
91	Visual – 10.11		Periodic Litter Pickup	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n
92	Visual – 10.11		Litter Control-Additional Measures	ongoing																																			
93	Visual – 10.12		Discharge Control/Litter Recovery	status																																			
94	Water Conserv. - 11.01		Water Conservation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
95	Recycling - 14.01		On-site Waste Diversion/Recycling	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
96	Recycling - 14.03		Tonnage Disposal Determination	info	/			/			/			/			/			/			/			/			/			/			/				

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97	Recycling - 14.04		Recycling-Variou Tasks	info	/				/				/				/				/				/				/				/					
98			Clean Dirt Procedures																																			
99	Site - 15.11		Reclaimed Water Utilization	status	/				/				/				/				/				/				/				/					
100	Site - 15.12		Water Conservation Measures	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	
101	Admin Rpts/Pgms - 17.4		Operation Compliance	info	/				/				/				/				/				/				/				/					
102	Admin Rpts/Pgms -17.10		Fill Sequencing Plans	status																																		
103	Admin Rpts/Pgms-17.15		Quarterly Newsletter	status																																		
104	Landfill Operation - 18.7		Graffiti Removal/Deterrent Plan	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	
122																																						
123	Civil & Geotechnical Engineer																																					
124																																						
125																																						
126	Revegetation - 44.C	44.C	Cut Slope Requirements	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	
127																																						
128	Geology - 1.01		Survey Monument Locations	ongoing																																		
129	Geology - 1.02		Seismic Design	ongoing																																		
130	Geology - 1.03		Maximum Refuse Slope Gradients	ongoing																																		
131	Geology - 1.04		Maximum Refuse Slope Gradients	ongoing																																		
132	Geology - 1.05		Unsuitable Material Procedures	ongoing																																		
133	Geology - 1.06		Grading Activities Procedures	ongoing																																		
134	Geology - 1.07		Grading Activities Procedures	ongoing	✓	FRN	I-f	✓	FRN	I-g	✓	FRN	I-h	✓	FRN	I-i	✓	FRN	I-j	✓	FRN	I-k	✓	FRN	I-l	✓	FRN	I-m	✓	FRN	I-n	✓	FRN	I-o	✓	FRN	I-p	
135	Geology - 1.09		Outer Perimeter Ridgeline Requirements	info																																		
136	Geology - 1.12		Soil Stabilization	ongoing	✓	FRN	I-f	✓	FRN	I-g	✓	FRN	I-h	✓	FRN	I-i	✓	FRN	I-j	✓	FRN	I-k	✓	FRN	I-l	✓	FRN	I-m	✓	FRN	I-n	✓	FRN	I-o	✓	FRN	I-p	
137	Geology - 1.16		Checklists/Surveys Following Earthquake	upon event	✓	NA	NONE	✓	NA	NONE	✓	NA	NONE	✓	NA	NONE	✓	NA	NONE	✓	NA	NONE	✓	NA	NONE	✓	NA	NONE	✓	NA	NONE	✓	NA	NONE	✓	NA	NONE	
138	Geology - 1.18		Alluvium-Removal/Replacement	ongoing																																		
139	Geology - 1.19		Landfill Design/Construction	ongoing																																		
140	Geology - 1.20		Landfill Design/Construction-Foundations	ongoing																																		
141	Surface Water - 2.03		Surface Drainage Control Facilities	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	
142	Surface Water - 2.05		Underdrain Requirements	ongoing																																		
143	Surface Water - 2.06		Final Cover for Surface Water Runoff Control	ongoing																																		
144	Groundwater - 3.02		Liner System Requirements	ongoing																																		
145	Groundwater - 3.04		Onsite Inspector for Liner Installation	ongoing																																		
146	Groundwater - 3.09		Alluvium Removal	ongoing																																		
147	Visual – 10.01		Landfill Elevations	ongoing	✓	FRN	I-f	✓	FRN	I-g	✓	FRN	I-h	✓	FRN	I-i	✓	FRN	I-j	✓	FRN	I-k	✓	FRN	I-l	✓	FRN	I-m	✓	FRN	I-n	✓	FRN	I-o	✓	FRN	I-p	

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148	Visual – 10.02		Final Fill Elevations	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
149																																								
150	Hydrologist																																							
151																																								
152																																								
153	Grading & Drainage - 38	38	Installation of Drainage Structures	ongoing																																				
154																																								
155	Geology - 1.17		Landfill Design/Construction-Seismic	ongoing																																				
156	Surface Water - 2.01		Surface Water Runoff Interception	ongoing																																				
157	Surface Water - 2.02		Surface Water Runoff Collection	ongoing																																				
158	Surface Water - 2.03		Surface Drainage Control-Maintenance	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n	
159	Surface Water - 2.04		Sedimentation Basin Capabilities	ongoing																																				
160	Surface Water - 2.05		Underdrain Placement	ongoing																																				
161	Surface Water - 2.07		Drainage Control System Design Approval	ongoing																																				
162	Surface Water - 2.08		Surface Water Runoff-Drainage System	ongoing																																				
163	Surface Water - 2.10		Surface Water Collection System-Monitoring	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
164	Surface Water - 2.11		Surface Water Quality-Collection/Monitoring	ongoing																																				
165	Surface Water - 2.12		Permanent/Temporary Drainage Facilities	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n	
166	Surface Water - 2.13		Permanent/Temporary Drainage Facilities	ongoing																																				
167	Surface Water - 2.14		Erosion Control Plan	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
168	Groundwater - 3.03		Interception of Groundwater Seepage	ongoing																																				
169	Groundwater - 3.06		Monitoring Wells	ongoing																																				
170																																								
171	Biologist																																							
172																																								
173																																								
174	Revegetation - 44	44	Revegetation/Cover Requirements	ongoing																																				
175	Revegetation - 44.A	44.A	Temporary Hydrosed Vegetation	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
176	Revegetation - 44.B	44.B	Interim Reclamation/Revegetation Plan-Sold Waste	ongoing																																				
177	Revegetation - 44.D	44.D	Final Fill Slope Requirements	ongoing																																				
178	Revegetation - 44.E	44.E		ongoing																																				
179																																								
180	Geology - 1.13		Drainage Plan Approval	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n	
181	Geology - 1.14		Personnel Retention for Monitoring Soil Erosion	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n	
182	Groundwater - 3.11		Irrigation/Revegetation Management-Personnel Retention	ongoing																																				

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183	BIOTA – 4.10		Oak Tree Permit	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
184	BIOTA – 4.11		Oak Tree Mitigation Plan	ongoing	✓	C	NONE		✓	C	NONE		✓	C	I-h		✓	C	NONE		✓	C	NONE		✓	C	I-H		✓	C	NONE		✓	C	NONE		✓	C	NONE	
185	BIOTA – 4.13		Oak Tree Mitigation Counting	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
186	BIOTA – 4.20		Poultry Wire Screen	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
187	BIOTA – 4.24		Drip Irrigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
188	BIOTA – 4.27		Coastal Sage Scrub Mitigation Plan	ongoing	✓	FRN	I-f		✓	FRN	I-q		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
189	BIOTA – 4.28		Coastal Sage Scrub Seeding	ongoing																																				
190	BIOTA – 4.29		San Diego Horned Lizard Mitigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
191	BIOTA – 4.30		California Gnatcatcher Surveys	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
192	BIOTA – 4.31		Least Bell's Vireo Surveys	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
193	BIOTA – 4.32		Western Burrowing Owl Surveys	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
194	BIOTA – 4.33		Migratory Bird Treaty Act	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
195	BIOTA – 4.34		Raptor Nests Habitat	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
196	BIOTA – 4.36		Personnel Retention for Monitoring Revegetation Plan	ongoing																																				
197	BIOTA – 4.37		Personnel Retention for Monitoring Revegetation Plan, Onsite Plants	status																																				
198	BIOTA – 4.38		Green Waste Material	ongoing																																				
199	BIOTA – 4.39		Revegetation of Slopes/Fill Areas	ongoing																																				
200	BIOTA – 4.41		Revegetation Plan-Replacement Cover	ongoing																																				
201	BIOTA – 4.42		Interim Vegetation	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
202	BIOTA – 4.43		Replacement Riparian Habitat	status	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
203	Air Quality - 6.02		Dust Control	ongoing	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n	
204	Visual – 10.06		Upper Ridge Planting/Revegetation	ongoing																																				
205	Visual – 10.07		Tree Planting Around Perimeter	ongoing																																				
206	Visual – 10.08		Cover/Revegetation Requirements	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n	
207	Visual – 10.08		Solid Waste Disposal Procedures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
208	Visual – 10.08		Final Cut Slope Steepness	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
209	Visual – 10.08		Final Fill Slopes-Reclamation/Revegetation	status																																				
210	Visual – 10.08		Revegetation Requirements	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
211	Visual – 10.09		Final Cover Composition Requirements	ongoing																																				
212	Visual – 10.10		Buffer Zone Maintenance	ongoing																																				
213	Water Conservation - 11.02		Plant Species	ongoing																																				
214	Fire Service - 12.01		Brush Clearance Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
215																																								

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216	Air Quality & Noise Specialist																																					
217																																						
218																																						
219	Fugitive Dust - 45.F	45.F	Fugitive Dust Monitoring	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	FRN	I-j	✓	FRN	I-k	✓	FRN	I-l	✓	FRN	I-m	✓	FRN	I-n							
220	Fugitive Dust - 45.I	45.I	Paved Roads-Cleaning	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
221	Fugitive Dust - 45.N	45.N	Report Submission-Dust/Odor	every quarter																																		
222	Air Quality Monitoring - 81	81	Air Quality Monitoring-Tests	ongoing																																		
223																																						
224																																						
225	Air Quality - 6.01		Fugitive Dust Aversion	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	FRN	I-j	✓	FRN	I-k	✓	FRN	I-l	✓	FRN	I-m	✓	FRN	I-n							
226	Air Quality - 6.01		Working Face Requirements	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
227	Air Quality - 6.01		Erosion Control-Daily Cover	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
228	Air Quality - 6.01		Soil Stockpile Requirements	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
229	Air Quality - 6.01		Active Area Fill	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
230	Air Quality - 6.01		Soil Sealant	ongoing																																		
231	Air Quality - 6.01		Dust Emissions-Road Maintenance	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
232	Air Quality - 6.01		Access Roads-Paving	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
233	Air Quality - 6.01		Dust Generation-Dumping	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
234	Air Quality - 6.01		Water Tanks/Piping Maintenance	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
235	Air Quality - 6.01		Wind Speed Monitoring	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
236	Air Quality - 6.01		Report Submission-Dust/Odor	every quarter	/			/			/			/			/			/			/			/			/			/						
237	Odor/Landfill Gas - 7.03		Odor/Landfill Gas Monitoring Program	ongoing	/			/			/			/			/			/			/			/			/			/						
238	Odor/Landfill Gas - 7.03		Landfill Surface Sampling	ongoing	/			/			/			/			/			/			/			/			/			/						
239	Odor/Landfill Gas - 7.03		Landfill Perimeter Air Samples	ongoing	/			/			/			/			/			/			/			/			/			/						
240	Odor/Landfill Gas - 7.03		Landfill Surface Monitoring	ongoing	/			/			/			/			/			/			/			/			/			/						
241	Odor/Landfill Gas - 7.03		LFG Collection System Monitoring	ongoing	/			/			/			/			/			/			/			/			/			/						
242	Noise - 9.01		Landfill Access/Operation	info	/			/			/			/			/			/			/			/			/			/						
243	Noise - 9.03		Landfill Equipment-Mufflers/Silencers	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
244	Admin Rpts/ Pgms-17.16		Air Quality Monitoring-Corrective Action Plan	ongoing	/			/			/			/			/			/			/			/			/			/						
246																																						
247	Hydrology, Hazardous Waste / Risk of Upset																																					
248																																						
249																																						

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**Sunshine Canyon Landfill County Mitigation Monitoring Summary
(07-01-2017 through 09-30-2017)**

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Second Quarter 2017												Third Quarter 2017																						
					4/18/2017	Status*	Further Review Needed/Comments**	Resolved*	5/9/2017	Status*	Further Review Needed/Comments**	Resolved*	5/23/2017	Status*	Further Review Needed/Comments**	Resolved*	6/20/2017	Status*	Further Review Needed/Comments**	Resolved*	7/11/2017	Status*	Further Review Needed/Comments**	Resolved*	7/25/2017	Status*	Further Review Needed/Comments**	Resolved*	8/14/2017	Status*	Further Review Needed/Comments**	Resolved*	9/12/2017	Status*	Further Review Needed/Comments**	Resolved*	9/26/2017	Status*	Further Review Needed/Comments**
250	IMP - Part IV.E	IMP4	Load Inspection-Random Manual	ongoing																																			
251																																							
252	Groundwater - 3.05		Leachate Collection and Removal System	ongoing																																			
253	Groundwater - 3.15		Underground Diesel Fuel Storage Tanks	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE
254	Fire Service - 12.02		On-site Fire Response Capabilities-Operating Equipment	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
255	Fire Service - 12.03		On-site Fire Response Capabilities-Roads/Water	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
256	Fire Service - 12.04		On-site Fuel Storage Tanks-Permit Issuance	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE
257	Fire Service - 12.05		Building Limits	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
258	Fire Service - 12.06		Methane Gas Monitoring-On-site Structures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
259	Hazardous Materials – 13.02		Waste Load Checking Program	ongoing																																			
260	Hazardous Materials – 13.05		Hazardous Waste Disposal	ongoing																																			
261	Hazardous Materials – 13.10		Hazardous Waste-Procedures	ongoing																																			
262	Hazardous Materials – 13.11		Spill Response Program	ongoing																																			
263	Safety - 16.02		Injury and Illness Prevention Program	status																																			
264	Safety - 16.03		Working Conditions-Monitoring	status																																			
265	Safety - 16.04		Inspection Checklist-Work Area Exposure	status																																			
266	Safety - 16.07		Accident/Injury Reports	status																																			
267	Safety - 16.08		First-aid Kits	ongoing																																			
268	Safety - 16.10		Lockout/Blackout Procedures	status																																			
269	Safety - 16.11		Personal Protective Equipment	status																																			
270	Landfill Operation - 18.8		Prohibited Waste Procedures	ongoing																																			
271																																							
272	Archaeologist																																						
273																																							
274																																							
275	Ecological Significance - 62	62	Archaeological/Paleontological Identification/Conservation Program	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n
276	IMP - Part VII.B	IMP7	Archaeological/Paleontological Report Submission	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE
277	Archaeological – 5.01		Archaeological Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE
278	Archaeological – 5.02		Onsite Archaeologist	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE
279	Archaeological – 5.03		Onsite Paleontologist	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n
280	Archaeological – 5.04		Archaeological/Paleontological Identification Instruction	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE
281	Archaeological – 5.05		Archaeological Resource Curation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE
282																																							

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**Sunshine Canyon Landfill County Mitigation Monitoring Summary
(07-01-2017 through 09-30-2017)**

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Second Quarter 2017																Third Quarter 2017																						
					4/18/2017	Status*	Further Review Needed/Comments**	Resolved*	5/9/2017	Status*	Further Review Needed/Comments**	Resolved*	5/23/2017	Status*	Further Review Needed/Comments**	Resolved*	6/20/2017	Status*	Further Review Needed/Comments**	Resolved*	7/11/2017	Status*	Further Review Needed/Comments**	Resolved*	7/25/2017	Status*	Further Review Needed/Comments**	Resolved*	8/14/2017	Status*	Further Review Needed/Comments**	Resolved*	9/12/2017	Status*	Further Review Needed/Comments**	Resolved*							
283	Paleontologist																																										
284																																											
285																																											
286	Ecological Significance - 62	62	Archaeological/Paleontological -Material Identification/Conservation	ongoing	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n				
287	IMP - Part VII.B	IMP7	Archaeological/Paleontological-Report Submission	ongoing																																							

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Appendix I

Further Review Needed Comments: Reference I-j through I-n Third Quarter 2017 Site Visits

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	Q – B.2.c		City Planning	<p>I-j through I-n: The buttress design plans and engineering documents to support Cell CC-4A Part 3 adjacent native slopes were under review by the County Department of Public Works Civil Engineering and Permitting sections. The buttress is outside of the prior-approved landfill footprint.</p> <p>I-j: Waste was being placed in Cell CC-4 Part 1. The existing access roads were being used for disposal operations. The majority of the slide material from the slope in CC-4 Part 2 was removed. Wet areas and flowing water was observed on the slope coming from prior controlled seeps.</p> <p>I-k: Cell CC-4 Part 1 was the only area accepting waste. The slide material in Cell CC-4 Part 2 was removed. The seeps are not yet controlled and water was seen in the bottom of the future cell. Construction of the cell is nearing final base grade.</p> <p>I-l: Cell CC-4 Part 1 was the active fill area. The stockpiled soil in Cell CC-3A was approximately 60% removed and being used for daily cover. Cell CC-4 Part 2 base HDPE liner was completed. A protective soil cover layer was being placed on the HDPE liner. Slope seeps and springs were captured and piped to the water recovery system piping.</p> <p>I-m: Cell CC-4 Part 1 was the active fill area. Stockpiled soil from Cell CC-3A was being excavated and used for daily cover. The stockpile elevation was at approximately the same as the scales access roadway. Cell CC-4 Part 2 liner construction continued. The back slope liner only had the bottom HDPE liner in place.</p> <p>I-n: Cell CC-4 Part 1 was the active fill area. Roadways were compacted cover material Cell CC-4 Part 2 liner construction continued with work being done on the northern back slope.</p>
		Geology - 1.07	County DPW EPD/SCL-LEA	I-j through I-n: See Q – B.2.c above.
		Geology - 1.12	County DPW EPD/SCL-LEA	I-j through I-n: See Q – B.2.c above.
	Q - C.3.h		City Planning	I-j through I-n: There are numerous dirt access roads that are used daily, but infrequently. When used, blowing dust is a concern. The use of a soil sealant or limiting the used of dirt roads to those that are watered. The use of a soil sealant on temporary construction roads should be evaluated. The use of water trucks was not effective in controlling dust. As the access road lengthens from the scales to the operating disposal areas, the roadway needs to be surfaced with either recycled asphalt, aggregate materials, or soft stabilization products in order to minimize the length of untreated dirt.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	Q - C.10.c		City Planning	<p>I-j: The gas-to-energy plant was using 8941 SCFM of recovered landfill gas, 47.0% CH₄, 1.8% O₂. The facility was at 100% production. Flare 1 - not monitored; Flare 3 - shut down; Flare 9 - shut down; Flare 10 - 5047 SCFM. The total volume of landfill gas recovered could not be determined.</p> <p>I-k: The gas-to-energy plant was using 9364 SCFM of recovered landfill gas, 47.0% CH₄, 1.9% O₂. The facility was at 100% production. Flare 1 - 2620 SCFM; Flare 3 - shut down; Flare 9 - 3284 SCFM; Flare 10 - 3245 SCFM. The total volume of landfill gas recovered was 18,513 SCFM.</p> <p>I-l: The gas-to-energy plant was using 9402 SCFM of recovered landfill gas, 45.0% CH₄, 1.2% O₂. The facility was at 100% production. Flare 1 - 2690 SCFM; Flare 3 - shut down; Flare 9 - 3761 SCFM; Flare 10 - 3758 SCFM. The total volume of landfill gas recovered was 19,611 SCFM.</p> <p>I-m: The gas-to-energy plant was using 9956 SCFM of recovered landfill gas, 42.0% CH₄, 1.3% O₂. The facility was at 100% production. Flare 1 - 3095 SCFM; Flare 3 - shut down; Flare 9 - 4386 SCFM; Flare 10 - 4402 SCFM. The total volume of landfill gas recovered was 21,840 SCFM.</p> <p>I-n: The gas-to-energy plant was using 9487 SCFM of recovered landfill gas, 45.0% CH₄, 1.2% O₂. The facility was at 100% production. Flare 1 - 2929 SCFM; Flare 3 - shut down; Flare 9 - 4451 SCFM; Flare 10 - 4591 SCFM. The total volume of landfill gas recovered was 21,458 SCFM.</p> <p>I-j through I-n: The quantity of landfill gas recovered during the 3rd Quarter has averaged 20,355 SCFM, with the gas-to-energy plant usage averaging 9430 SCFM. An expansion of the gas-to-energy plant or different beneficial use facility should be evaluated.</p>
		Odor/Landfill Gas - 7.07	County Planning/SCAQMD SCL-LEA	I-j through I-n: See Q - C.10.c above.
		Gas - 52	County DPW EPD/SCL-LEA County Forester Fire Warden	I-j through I-n: See Q - C.10.c above.
	T-4		City Planning, City Fire Department	I-j through I-n: An updated fire plan showing the new locations of all facilities and emergency egress should be prepared and sent to the local City Fire Department station and City and County Planning when construction of the new operation's facilities currently under construction have been completed. Emergency egress should be posted for employees and customers.
		Fire Service - 12.03	County DPW EPD/SCL-LEA County Forester Fire Warden	I-j through I-n: See T-4 above.
	M - 4.1.1 / 7		City Planning, DOGGR	<p>I-j through I-n: The two old oil well steel casings in the area north of the office site are still covered with stockpiled soil. The lowering of the well casings and permanent abandonment should be done when the stockpiled soil is removed and the final grade elevation for future liner installation is reached.</p> <p>The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site should be reabandoned when the other two wells are reabandoned. No abandonment activity has occurred at this location. None of the wells were leaking oils or gas, nor pose a current hazard.</p>
		Re-abandonment Procedures	County Planning, County DPW EPD/SCL-LEA, DOGGR	I-j through I-n: See M - 4.1.1 / 7 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	M - 4.2.12 / 28		City Planning/SCAQMD	I-j through I-n: Alternatives to hydroseeding on interim and inactive slopes and decks for slope stability and dust control were being used due to the drought. Posi-Shell has been applied to areas in Cell CC-3A and Cell CC-3B. The installation of Closure Turf has been done on the Cell CC-3A and Cell CC-3B south-facing slopes. These systems have been shown to control dust, erosion and surface emissions in the areas where it was used. Blowing dust was observed on City and County top decks and roadways on days when wind gusts exceeded 10 MPH. The use of a soil sealant or vegetation should be considered.
		Fugitive Dust - 45.F	County DPH/County LEA County DPW-EPD County Biologist	I-j through I-n: See M - 4.2.12 / 28 above.
	M -4.2.13/ 29, 30, 32, 34		City Planning/SCL-LEA/SCAQMD	I-j through I-n: Compliance with these mitigation measures, concerning landfill gas monitoring and odor control and detection, is being monitored by a multi-agency team led by the SCAQMD. Only obvious gas emission sources, odorous operations related to gas and/or gas and landfill liquids, lack of cover, or exposed trash resulting in odor observed during the monitoring visit will be reported.
		Amendment 45.N-4.a, 4.c, 4.d	County DPW-EPD	I-j through I-n: See M -4.2.13/ 29, 30, 32, 34 above.
		Amendment 45.N-5	County DPW-EPD	I-j through I-n: See M -4.2.13/ 29, 30, 32, 34 above.
	M - 4.2.13 / 33		City Planning/SCAQMD	<p>I-j: The monitor drove the Granada Hills neighborhood area from 6:30 to 7:30 a.m. and there were no landfill odors detected in the adjacent neighborhood. There were localized gas odors detected coming from the Cell CC-3A west-facing slope near gas well GW 7041. A packer truck was observed leaking liquids while parked at the exit acceleration lane.</p> <p>I-k: The monitor drove the Granada Hills neighborhood area from 6:45 to 7:45 a.m. and there were no landfill odors detected in the adjacent neighborhood. Placement of Closure Turf required excavation of odorous soils and trash adjacent to the main access road to uncover the edge of the in-place liner for future tie-ins. Odors were detected and being controlled to the local work area and were not leaving the site. Localized odors were detected along the access road to Cell CC-3A near the new excavation. A malfunctioning gas well, GW 2004, was observed discharging liquids out of the top of the well. BAS repaired the well immediately after Republic notified them of the issue.</p> <p>I-l: The monitor drove the Granada Hills neighborhood area from 6:45 to 7:45 a.m. and there were no landfill odors detected in the adjacent neighborhood. At 8:00 a.m. observed liquid trails on Balboa roadway near Woodley Avenue. They appear to be from packer trucks, possibly from prior days. A localized odor was detected when standing near the stains. A gas leak was detected at Flare 1, northern-most gas blower's discharge flange.</p> <p>I-m: The monitor drove the Granada Hills neighborhood area from 6:30 to 7:45 a.m. and there were no landfill odors detected in the adjacent neighborhood, nor in the Rancho Cascades neighborhood.</p>

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager				<p>I-n: The monitor drove the Granada Hills neighborhood area from 6:30 to 7:30 a.m. and there were no landfill odors detected in the adjacent neighborhood. The slow lane on Balboa Boulevard at Woodley Avenue had liquid stain marks that appear to be leaking from packer trucks. There was a slight garbage odor when one is standing right next to the stain. A landfill liquid transfer pipeline near the west end of the CC-3A slope Closure Turf leaked liquids on the edge of the dirt access road on the evening of September 25th. The area was covered with soil and treated with deodorizing liquid but was still extremely odorous when observed mid-morning the next day.</p> <p>I-j through I-n: The use of Posi-Shell and Closure Turf sealed fill areas with intermediate cover and provide enhanced gas recovery and gas-related odor control.</p>
		Odor/Landfill Gas - 7.06	County DPW-EPD/SCL-LEA/SCAQMD	I-j through I-n: See M-4.2.13/33 above.
		Amendment 45.N - 4.a, 4.c, 4.d	County DPW-EPD	I-j through I-n: See M-4.2.13/29, 30, 32, 33, and 34 above.
		Amendment 45.N - 5	County DPW-EPD	I-j through I-n: See M-4.2.13/29, 30, 32, 33, and 34 above.
		Surface Water - 2.15	County DPW EPD/LARWQCB, SCL- LEA	<p>I-j through I-n: A preventative maintenance program with inspection of facility equipment, systems, and storm water management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into storm water should be performed on a monthly basis, with a summary report issued on a quarterly basis. These reports should be available for agency and monitor review.</p> <p>I-j: The San Fernando Road retaining wall had additional soils slough down onto the wall fence. The oak tree adjacent to the San Fernando Road retaining wall had the branches trimmed to eliminate contact with the Verizon communication cable on the DWP poles. The removal of soils and repair of the fence, stabilization of the slope, and re-establishing the wall drainage system had not yet started. The depression on the Old City Landfill south of the landfill office appears to have had additional settlement and landfill top soil movement. The Basin D outlet channel liner was still lifted, with tumbleweeds and debris under the liner. Maintenance had not yet been performed.</p> <p>I-k: The terminal basin outlet risers skimmer system modification had not started. There still was a dirt berm at the entrance to the basin blocking any water. There was water entering the basin coming from a 24" drainage piped from the Old City Landfill and from a seep in the inlet concrete channel. The 24" drainage source could be Deck C potable irrigation water. The seep appears to be alluvial water from the alluvial cut-off wall system. The alluvial cut-off wall pumping system may not be functioning properly. Water was ponding and mosquito breeding is a concern. The access road hillside slope south of the basin's inlet had a wet section and could be a future road stability issue.</p>

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager				<p>I-l: Water into the terminal basin was blocked by a dirt berm at the entrance. The irrigation leak was fixed and no water was coming into the basin from the 24" drainage pipe. The access road hillside slope was also dry. There is still seep water in the inlet channel and on the basin floor. The seep appears to be alluvial water from the alluvial cut-off wall system. The alluvial cut-off wall pumping system may not be functioning properly. Water was ponding and mosquito breeding is a concern. No work was done on the outlet risers to install the skimmer system.</p> <p>I-m: Soil sloughing was observed on the main access road slope facing the terminal basin. This was in the same area where a wet spot was observed in July. This slope should be watched. The Basin D outlet channel was still lifted, with tumbleweeds and debris under the liner. Maintenance had not yet been performed. Drainage control concrete V-ditches were repaired and new V-ditches in the County sage mitigation area. No slope erosion repair occurred. The Basin D outlet channel HDPE liner was lifted, and had debris and tumbleweed under the leading edge which could cause total blockage in a rain event. The San Fernando Road retaining wall and slope repair had not begun. A cattle guard drainage system was being installed at the landfill entrance gate with water discharge to the terminal basin outlet channel.</p> <p>I-n: More soil sloughing had occurred at the San Fernando Road retaining wall. The depth of soils and rock behind the fence and soil in front of the wall has increased. The drainage V-ditch above the Flare 1 site had the slope soil sloughed away. The County sage mitigation slope erosion rails have not been repaired and no erosion control wattles installed. The Basin D outlet channel HDPE was lifted, and debris and tumbleweed under the leading edge, which could cause total blockage in a storm.</p>
	M - 4.4.2/69		City Planning	I-j through I-n: The City Attorney, City DWP, and Republic were finalizing an agreement to use the Chatsworth Reservoir as a wetland mitigation site. The agreement will not involve the mitigation area being transferred to City Recreation and Parks. The agreement, once finalized, will be delivered to the DWP Board for approval and then to the City Council for approval. Republic is preparing an addendum to the MND. Republic is going to provide the U.S. Army Corp of Engineers and the California Department of Fish and Wildlife an update in December.
		Biota - 4.4.3	CDFW	I-j through I-n: See M - 4.4.2 / 69 above.
	M - 4.9.3 / 110		City Planning/City LEA	<p>I-j: There was a significant amount of broken concrete, rock, and rubble dumped on the Sierra Highway road shoulder near the I-14 overpass. Also observed there were trash-filled bags and debris in the same area. Trash was observed in the back native area of Basin A. Basin B had windblown litter on the back eastern native slope.</p> <p>I-k: No litter or debris observed on Sierra Highway. The back native eastern slope of Basin B had windblown litter.</p> <p>I-l: No litter or debris was observed on Sierra Highway. The back native eastern slope of Basin B had windblown litter. There was windblown litter adjacent to the 36" main gas recovery header that paralleled the westside drainage channel.</p> <p>I-m: The back native area of Basin A had windblown litter. The far eastern native slope of Basin B had windblown litter. Illegally dumped trash and debris were observed on Sierra Highway near the I-14 overpass.</p> <p>I-n: Sierra Highway near the I-14 overpass had windblown litter. Just north of the overpass was an 18-foot boat illegally dumped on the roadway shoulder. Windblown debris was observed near the terminal basin's exterior wall facing the San Fernando Road block wall.</p>

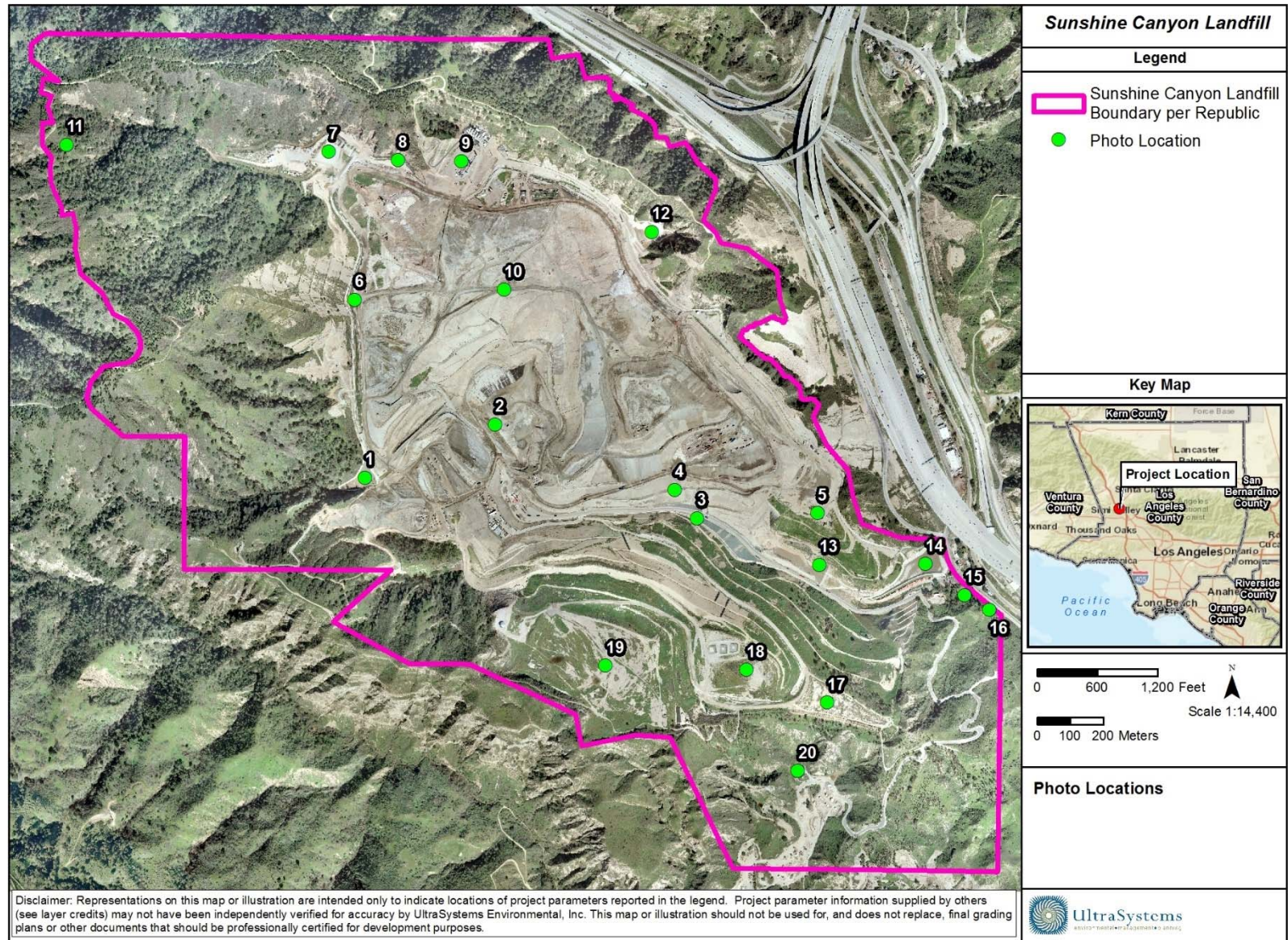
Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Civil and Geotechnical Engineer	M - 4.1.1 / 2		City Building and Safety City Planning	I-j through I-n: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 4		City Planning/LARWQCB Cal Recycle	I-j through I-n: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 5		City Planning/ LARWQCB Cal Recycle	I-j through I-n: Future out-of-approved landfill footprint grading is proposed for a Cell CC-4 Part 3 buttress. Grading plans have been submitted to the County Department of Public Works for approval. These plans are under review by DPW Civil Engineering and Permitting sections. The only grading occurring in this quarter was for the development of Cell CC-4 Part 2 and the removal of stockpiled soil for waste cover from stockpiled soil in Cell CC-3A. These activities are inside the approved landfill footprint.
		Geology - 1.07	County DPW EPD/ County LEA	I-j through I-n: See M - 4.1.1 / 5 above.
	M - 4.1.5 / 12		City Planning/LARWQCB Cal Recycle	I-j through I-n: See M - 4.1.1 / 5 above.
	M - 4.1.6 / 18			I-j through I-n: The landfill perimeter boundary survey PVC pipe markers have been removed in areas where Edison pole grading took place, as well as near the Flare 11 site pad grading. These boundary markers have not been replaced. All markers should be replaced once the Cell CC-4 Part 3 landslide buttress is installed.
	M - 4.14.1 / 155		City Planning/Cal Recycle PW-BOE LADBS City LEA	I-j through I-n: Access roads were being maintained around the working area for emergency access.
	M - 4.18 / 178		City Planning/City LEA	I-j through I-n: A map showing areas that are at the final elevations and which should have final cover should be available for review. Documents showing current filled elevations should also be available onsite for review. These conditions were not monitored.
		Visual - 10.01 Visual - 10.02	County DPW EPD/ LARWQCB SCL-LEA	I-j through I-n: See M - 4.18 / 178 above.
Hydrologist	M - 4.3.1 / 37, 38		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	I-j through I-n: Surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas, and most conveyance V-ditches were unlined. Cell CC-4 Part 2 had a drainage system to a low point sump, and a sump pump and discharge piping was installed.
		Surface Water - 2.03 Surface Water - 2.12	County DPW EPD/ LARWQCB SCL-LEA	I-j through I-n: See M - 4.3.1 / 37, 38 above.
	M - 4.3.1 / 39		City Planning/LARWQCB Cal Recycle	I-j through I-n: See M - 4.3.1 / 37, 38 above.
	M - 4.3.1 / 40		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-j through I-n: See M - 4.3.1 / 37, 38 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Hydrologist	M - 4.3.1 / 43		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	<p>I-j: Basin A was cleared of sediment, and slopes that previously sloughed soil into the basin were repaired. Basin B was cleared of sediment. The outlet risers were not cleaned and had areas of standing water, a mosquito concern. The CC-3B basin was cleared of sediment and debris. Inlet water flow areas were HDPE lined. The low-flow outlet was still plugged with soil and debris. The concrete outlet channel supporting dirt slopes had deep soil erosion rails that were not yet repaired. A corrugated steel drainage channel was constructed on an Old City South landfill slope. No safety restrictions were seen at the top to limit accidental or attractive nuisance use as a slide. The terminal basin was cleared of sediment and was dry. The planned installation of a skimmer system on the outlet risers had not yet started. Water into the terminal basin was blocked by a dirt berm at the entrance of the basin and water was ponding. The pump at the dirt berm was not being used. Mosquito breeding is a concern.</p> <p>I-k: Basin A was clean and dry. The outlet risers area had not had sediment removed from the rock or risers. Basin B was clean and dry. The outlet risers areas had not had the sediment removed from the rock and risers. The back native hillside had windblown litter. The terminal basin was clear of sediment and inlet surface channel water was blocked by a dirt berm.</p> <p>I-l: Basin D was clear of sediment and was dry.</p>
		Surface Water - 2.10	LARWQCB / County DPW EPD	I-j through I-n: See M - 4.3.1 / 43 above.
		Surface Water - 2.14	LARWQCB / County DPW EPD	I-j through I-n: See M - 4.3.1 / 43 above. The current erosion control plans should be available for agency and monitor review.
	M - 4.3.1 / 45		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-j through I-n: Surface Water - 2.14 above.
	M - 4.3.1/ 46		City Planning/ LARWQCB CalRecycle PW-BOE	I-j through I-n: See 2.15 above.
Biologist	M - 4.1.1 / 60		City Planning/ LARWQCB CalRecycle SCL-LEA LADBS	I-j through I-n: See M - 4.2.12 / 28 above.
		Geology - 1.14	LARWQCB/ County Forester	I-j through I-n: See M - 4.2.12 / 28 above.
	M - 4.2.11 / 23		City Planning	I-j through I-n: See M - 4.2.12 / 28 above.
		Geology - 1.13	County DPW EPD/ County Forester LARWQCB	I-j through I-n: See M - 4.2.12 / 28 above.
	M - 4.2.12		SCL-LEA/ City Planning	I-j through I-n: See M - 4.2.12 / 28 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Biologist		Revegetation - 44.A	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-j through I-n: See M - 4.2.12 / 28 above.
		Revegetation - 44.F	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-j through I-n: See M - 4.2.12 / 28 above.
		Biota - 4.42	SCL-LEA	I-j through I-n: See M - 4.2.12 / 28 above.
		Air Quality - 6.02	SCAQMD/ SCL-LEA	I-j through I-n: See M - 4.2.12 / 28 above.
		Visual - 10.08	County Forester	I-j through I-n: See M - 4.2.12 / 28 above.
	M - 4.4.1 / 60		City Planning	I-k: Deck C sage mitigation was doing well. Signs of summer die-off was occurring. Deck B had no sage mitigation activity. I-l: Deck C sage mitigation was doing well. There were some areas that needed removal of invasive and non-native plants. Bobcat tracks were observed in the PM-10 tree area. Decks B and A native plants area need non-native plants removed. There was no work being done in the Deck B sage area except for stockpiling soil. I-n: Deck C sage mitigation PM-10 trees were growing and doing well. No understory planting had occurred. The Deck C sage mitigation was doing well. Trimming and invasive plant removal needs to be performed to help native plants get established.
		Biota - 4.27	County LEA/CDFW	I-j through I-n: See M - 4.4.1 / 60 above.
		Biota - 4.10	County LEA/CDFW	I-j through I-n: No Big-Cone Fir mitigation trees were monitored this quarter.
	M - 4.9.4 / 121		City Planning/Cal Recycle Cal OSHA LAFD City LEA	I-j through I-n: See T-4 above.
Paleontologist	M-4.19.2/191		City Planning	I-j through I-n: The paleontologist was monitoring grading activities in and adjacent to Cell CC-4 Part 2 construction.
		Ecological Significance 62	County Planning	I-j through I-n: See M-4.19.2/191 above.

Appendix II

Relevant Site Photos



Path: J:\Projects\5800_Sunshine_Canyon\MXD\PhotoLocations\5800_Sunshine_Canyon_PhotoLocations_2017_Quarterly_Report_#3.mxd
 Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community; CAL FIRE, 2007; Republic, March 2017; LA County Assessor, 2016-2017

November 13, 2017

Photo Location Map Key

Map Location	Title	Photo Number
1	Basin A	1-27
2	CC-4 Part 1 and CC-4 Part 2	28-162
3	Closure Turf and Posi-Shell	163-250
4	CC-3B Top Deck	251-293
5	Old City North Top Deck	294-318
6	County Sage Mitigation and Westside Drainage Channel	319-321
7	Basin D	322-328
8	Basin D Outlet Channel	822-830
9	Flares 9, 10, 11, and Gas-to-Energy Facility	329-349
10	County Top Deck	350-373
11	Big Cone Fir Mitigation	379-395
12	Basin B	376-395
13	Terminal Basin Inlets	396-423
14	Terminal Basin	424-508
15	Sewer Lift Station and Graywater Facility	509-518
16	Retaining Wall at San Fernando Road	519-358
17	City Deck C Sage Mitigation	539-596
18	City Deck B Sage Mitigation	597-640
19	City Deck A Sage Mitigation	641-560
20	Southern Ownership Buffer	-
-	Illegal Dumping and Windblown Litter	651-691
-	Offsite Odors	692-699
-	Site Scales	700-706
-	General Site	707-821



Photo 1: Basin A: July 11, 2017



Photo 2: Basin A: July 11, 2017



Photo 3: Basin A: July 11, 2017



Photo 4: Basin A: July 11, 2017



Photo 5: Basin A: July 11, 2017



Photo 6: Basin A: July 11, 2017



Photo 7: Basin A: July 11, 2017



Photo 8: Basin A: July 11, 2017



Photo 9: Basin A: July 25, 2017



Photo 10: Basin A: July 25, 2017



Photo 11: Basin A: July 25, 2017



Photo 12: Basin A: July 25, 2017



Photo 13: Basin A: July 25, 2017



Photo 14: Basin A: July 25, 2017



Photo 15: Basin A: August 14, 2017



Photo 16: Basin A: August 14, 2017



Photo 17: Basin A: August 14, 2017



Photo 18: Basin A: September 12, 2017



Photo 19: Basin A: September 12, 2017



Photo 20: Basin A: September 12, 2017



Photo 21: Basin A: September 26, 2017



Photo 22: Basin A: September 26, 2017

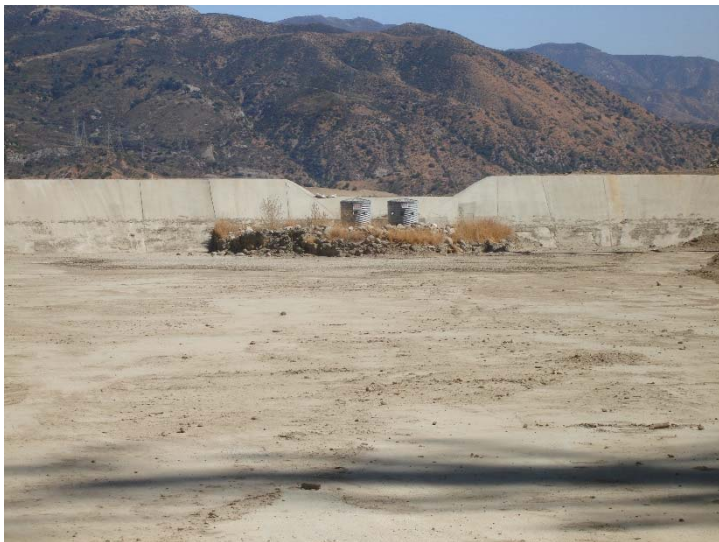


Photo 23: Basin A: September 26, 2017



Photo 24: Basin A: September 26, 2017



Photo 25: Basin A: September 26, 2017



Photo 26: Basin A: September 26, 2017



Photo 27: Basin A: September 26, 2017



Photo 28: Site Working Area CC4A Part 1 900AM: July 11, 2017



Photo 29: Site Working Area CC4A Part 1 900AM: July 11, 2017



Photo 30: Site Working Area CC4A Part 1 900AM: July 11, 2017



Photo 31: Site Working Area CC4A Part 1 1130AM: July 11, 2017



Photo 32: Site Working Area CC4A Part 1 1130AM: July 11, 2017



Photo 33: Site Working Area CC4A Part 1 1130AM: July 11, 2017



Photo 34: Site Working Area CC4A Part 1 1130AM: July 11, 2017

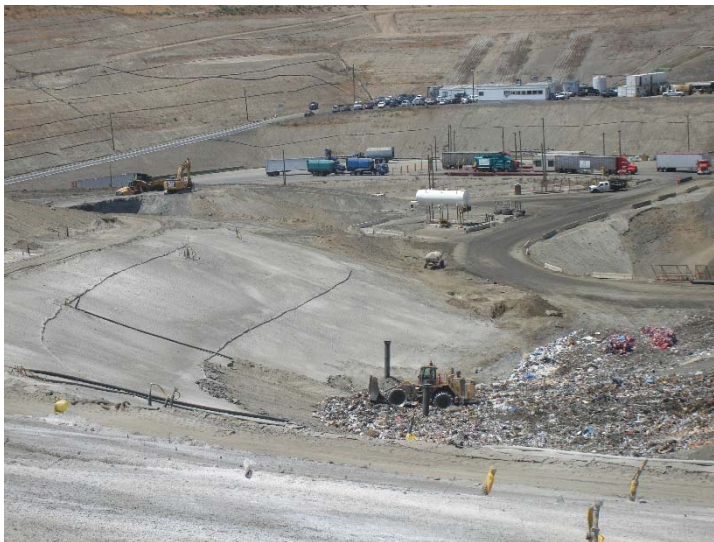


Photo 35: Site Working Area CC4A Part 1 1130AM: July 11, 2017



Photo 36: Site Working Area CC4A Part 1 1130AM: July 11, 2017



Photo 37: Site Working Area CC4A Part 1 1130AM: July 11, 2017



Photo 38: Site Working Area CC4A Part 1 1130AM: July 11, 2017



Photo 39: Site Working Area CC4A Part 1 1130AM: July 11, 2017



Photo 40: Site Working Area CC4A Part 1 1130AM: July 11, 2017



Photo 41: Site Working Area CC4A Part 1 1100AM: July 25, 2017



Photo 42: Site Working Area CC4A Part 1 1100AM: July 25, 2017



Photo 43: Site Working Area CC4A Part 1 1100AM: July 25, 2017



Photo 44: Site Working Area CC4A Part 1 1100AM: July 25, 2017

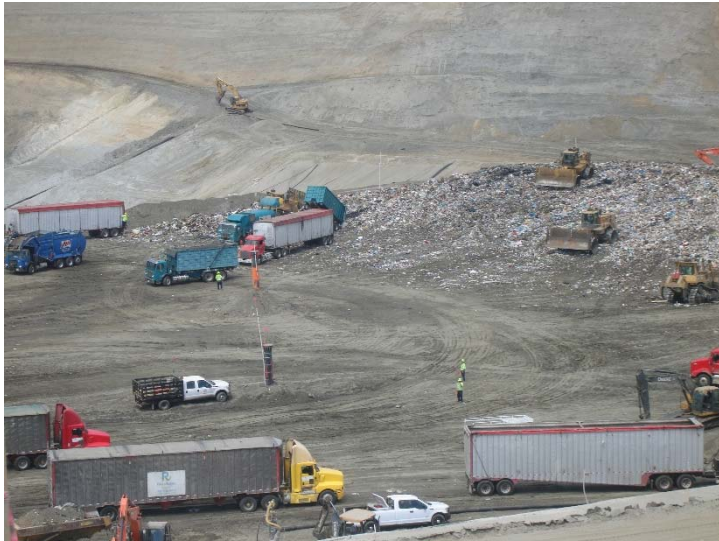


Photo 45: Site Working Area CC4A Part 1 1100AM: July 25, 2017



Photo 46: Site Working Area CC4A Part 1 1100AM: July 25, 2017



Photo 47: Site Working Area CC4A Part 1 1100AM: July 25, 2017



Photo 48: Site Working Area CC4A Part 1 1200PM: July 25, 2017



Photo 49: Site Working Area CC4A Part 1 1200PM: July 25, 2017



Photo 50: Site Working Area CC4A Part 1 1200PM: July 25, 2017



Photo 51: Site Working Area CC4A Part 1 1200PM: July 25, 2017



Photo 52: Site Working Area CC4A Part 1 1200PM: July 25, 2017



Photo 53: Site Working Area CC4A Part 1 1000AM: August 14, 2017



Photo 54: Site Working Area CC4A Part 1 1000AM: August 14, 2017



Photo 55: Site Working Area CC4A Part 1 1000AM: August 14, 2017



Photo 56: Site Working Area CC4A Part 1 1000AM: August 14, 2017



Photo 57: Site Working Area CC4A Part 1 1000AM: August 14, 2017



Photo 58: Site Working Area CC4A Part 1 1000AM: August 14, 2017



Photo 59: Site Working Area CC4A Part 1 1000AM: August 14, 2017



Photo 60: Site Working Area CC4A Part 1 1000AM: August 14, 2017



Photo 61: Site Working Area CC4A Part 1 1000AM: August 14, 2017



Photo 62: Site Working Area CC4A Part 1 1000AM: August 14, 2017



**Photo 63: Site Working Area CC4A Part 1 & Liner Construction
Part 2 844AM: September 12, 2017**



**Photo 64: Site Working Area CC4A Part 1 & Liner Construction
Part 2 844AM: September 12, 2017**



**Photo 65: Site Working Area CC4A Part 1 & Liner Construction
Part 2 844AM: September 12, 2017**



**Photo 66: Site Working Area CC4A Part 1 & Liner Construction
Part 2 844AM: September 12, 2017**



**Photo 67: Site Working Area CC4A Part 1 945AM: September 12,
2017**



**Photo 68: Site Working Area CC4A Part 1 945AM: September 12,
2017**



Photo 69: Site Working Area CC4A Part 1 945AM: September 12, 2017



Photo 70: Site Working Area CC4A Part 1 945AM: September 12, 2017



Photo 71: Site Working Area CC4A Part 1: September 12, 2017



Photo 72: Site Working Area CC4A Part 1: September 12, 2017



Photo 73: Site Working Area CC4A Part 1: September 12, 2017



Photo 74: Site Working Area CC4A Part 1: September 12, 2017



Photo 75: Site Working Area CC4A Part 1: September 12, 2017

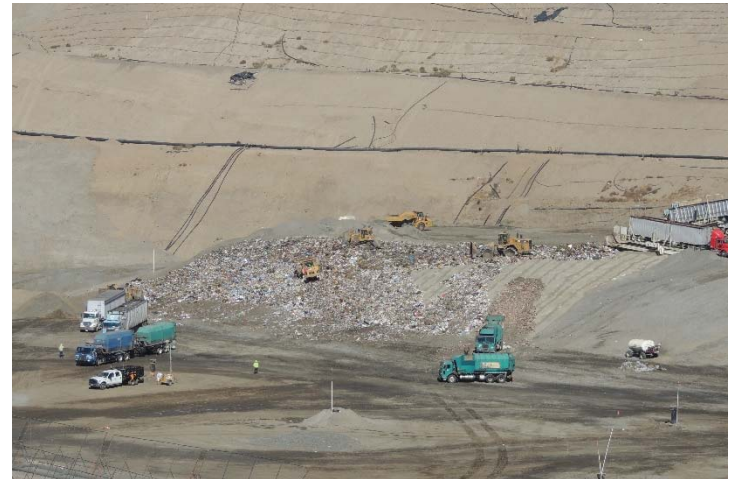


Photo 76: Site Working Area CC4A Part 1: September 12, 2017



Photo 77: Site Working Area CC4A Part 1: September 12, 2017



Photo 78: Site Working Area CC4A Part 1: September 12, 2017



Photo 79: Site Working Area CC4A Part 1: September 12, 2017



Photo 80: Site Working Area CC4A Part 1 945AM: September 26, 2017



Photo 81: Site Working Area CC4A Part 1 945AM: September 26, 2017



Photo 82: Site Working Area CC4A Part 1 945AM: September 26, 2017



Photo 83: Site Working Area CC4A Part 1 945AM: September 26, 2017



Photo 84: Site Working Area CC4A Part 1 945AM: September 26, 2017



Photo 85: Site Working Area CC4A Part 1 945AM: September 26, 2017



Photo 86: Site Working Area CC4A Part 1 945AM: September 26, 2017



Photo 87: Site Working Area CC4A Part 1 1100AM: September 26, 2017



Photo 88: Site Working Area CC4A Part 1 1100AM: September 26, 2017



Photo 89: Site Working Area CC4A Part 1 1100AM: September 26, 2017



Photo 90: Site Working Area CC4A Part 1 1100AM: September 26, 2017



Photo 91: Site Working Area CC4A Part 1 1100AM: September 26, 2017

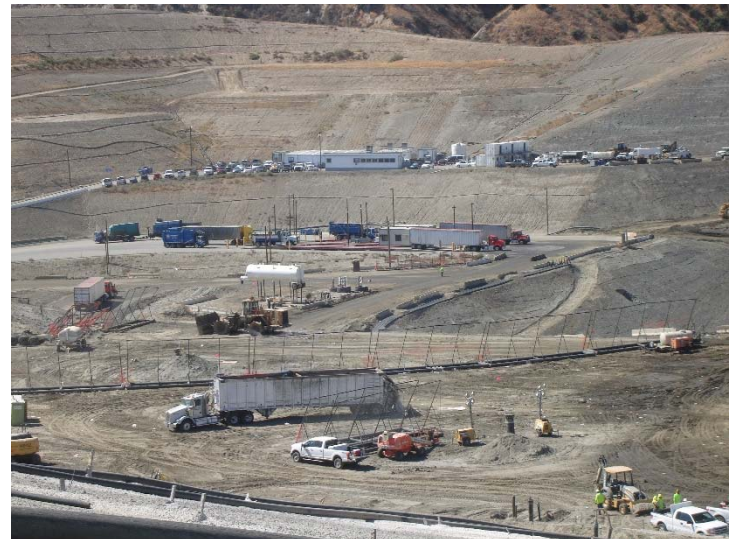


Photo 92: Site Working Area CC4A Part 1 1100AM: September 26, 2017



Photo 93: Site Working Area CC4A Part 1 1100AM: September 26, 2017



Photo 94 Site Working Area CC4A Part 1 1100AM: September 26, 2017



Photo 95: Site Working Area CC4A Part 1 1100AM: September 26, 2017



Photo 96: Site Working Area CC4A Part 1 1100AM: September 26, 2017



Photo 97: Site Working Area CC4A Part 1 1100AM: September 26, 2017



Photo 98: Site Working Area CC4A Part 1 1100AM: September 26, 2017



Photo 99: Site Working Area CC4A Part 1 1100AM: September 26, 2017



Photo 100: Site Working Area CC4A Part 1 100PM: September 26, 2017



Photo 101: Site Working Area CC4A Part 1 100PM: September 26, 2017



Photo 102: Site Working Area CC4A Part 1 100PM: September 26, 2017



Photo 103: Site Working Area CC4A Part 1 100PM: September 26, 2017



Photo 104: Site Working Area CC4A Part 1 100PM: September 26, 2017



Photo 105: Site Working Area CC4A Part 1 100PM: September 26, 2017



Photo 106: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 107: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 108: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 109: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 110: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 111: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 112: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 113: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 114: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 115: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 116: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 117: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 118: CC4A Part 2 Excavation Area Slide: July 11, 2017



Photo 119: CC4A Part 2 Excavation Area: July 11, 2017



Photo 120: CC4A Part 2 Excavation Area: July 11, 2017



Photo 121: CC4A Part 2 Excavation Area: July 11, 2017



Photo 122: CC4A Part 2 Excavation Area: July 11, 2017



Photo 123: CC4A Part 2 Excavation Area: July 11, 2017



Photo 124: CC4A Part 2 Excavation Area: July 25, 2017



Photo 125: CC4A Part 2 Excavation Area: July 25, 2017



Photo 126: CC4A Part 2 Excavation Area: July 25, 2017



Photo 127: CC4A Part 2 Excavation Area: July 25, 2017



Photo 128: CC4A Part 2 Excavation Area Slide: July 25, 2017



Photo 129: CC4A Part 2 Excavation Area Slide: July 25, 2017

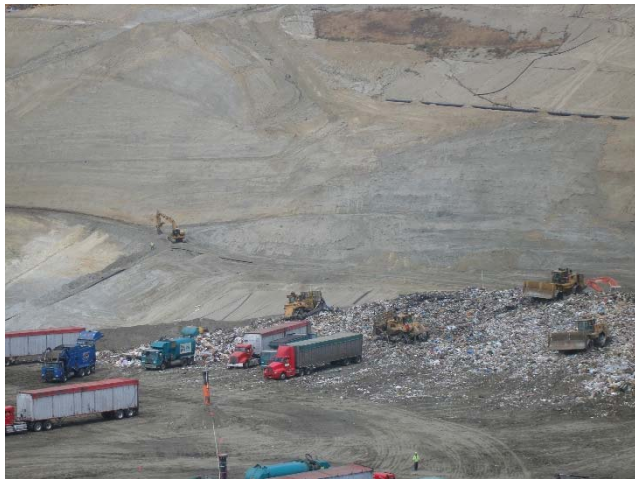


Photo 131: CC4A Part 2 Excavation Area Slide: July 25, 2017



Photo 130: CC4A Part 2 Prior Slide Area: July 25, 2017



Photo 132: CC4A Part 2 Prior Slide Area: July 25, 2017



Photo 133: CC4A Part 2 Excavation & Part 1 Operating Areas: July 25, 2017



Photo 134: CC4A Part 2 Excavation & Part 1 Operating Areas: July 25, 2017



Photo 135: CC4A Part 2 Excavation & Part 1 Operating Areas: July 25, 2017



Photo 136: CC4A Part 2 Excavation Area: September 12, 2017



Photo 137: CC4A Part 2 Excavation Area: September 12, 2017



Photo 138: CC4A Part 2 Excavation Area: September 12, 2017



Photo 139: CC4A Part 2 Excavation Area: September 12, 2017



Photo 140: CC4A Part 2 Excavation Area: September 12, 2017



Photo 141: CC4A Part 2 Excavation Area: September 12, 2017



Photo 142: CC4A Part 2 Excavation Area: September 12, 2017



Photo 143: CC4A Part 2 Excavation Area: September 12, 2017



Photo 144: CC4A Part 2 Liner Area: September 26, 2017



Photo 145: CC4A Part 2 Liner Area: September 26, 2017



Photo 146: CC4A Part 2 Liner Area: September 26, 2017



Photo 147: Cell CC3A Stockpile Removal 1000AM: July 11, 2017



Photo 148: Cell CC3A Stockpile Removal 1000AM: July 11, 2017



Photo 149: Cell CC3A Liquid Break-Out Area: July 11, 2017



Photo 150: Cell CC3A Liquid Break-Out Area: July 11, 2017



Photo 151: Cell CC3A Liquid Break-Out Area: July 11, 2017



Photo 152: Cell CC3A Liquid Break-Out Area: July 11, 2017



Photo 153: Cell CC3A Liquid Break-Out Area: July 11, 2017



Photo 154: Cell CC3A Liquid Break-Out Area: July 11, 2017



Photo 155: Cell CC3A Slope Gas Well Liquid Surge: July 25, 2017



Photo 156: Cell CC3A Slope Gas Well Liquid Surge: July 25, 2017



Photo 157: Cell CC3A Slope Gas Well Liquid Surge: July 25, 2017



Photo 158: Cell CC3A Slope Work near Access Road: July 25, 2017



Photo 159: CC3A Stockpile Removal: August 14, 2017



Photo 160: County South Slope: August 14, 2017



Photo 161: Cell CC3A Stockpile Removal 843AM: September 12, 2017



Photo 162: Cell CC3A Stockpile Removal 843AM: September 12, 2017



Photo 163: Closure Turf: July 11, 2017



Photo 164: Closure Turf: July 11, 2017



Photo 165: Closure Turf: July 11, 2017



Photo 166: Closure Turf: July 11, 2017



Photo 167: Closure Turf: July 11, 2017



Photo 168: Closure Turf: July 11, 2017



Photo 169: Posi-Shell: July 11, 2017



Photo 170: Posi-Shell: July 11, 2017



Photo 171: Posi-Shell: July 11, 2017



Photo 172: Posi-Shell: July 11, 2017



**Photo 173: Decommissioned Gas Well with Liquids Backing Up:
July 11, 2017**



Photo 174: Closure Turf: July 25, 2017



Photo 175: Closure Turf: July 25, 2017



Photo 176: Closure Turf: July 25, 2017



Photo 177: Closure Turf: July 25, 2017



Photo 178: Closure Turf: July 25, 2017



Photo 179: Closure Turf: July 25, 2017



Photo 180: Closure Turf: July 25, 2017



Photo 181: Closure Turf: July 25, 2017



Photo 182: Closure Turf: July 25, 2017



Photo 183: Closure Turf: July 25, 2017



Photo 184: Closure Turf: July 25, 2017



Photo 185: Closure Turf: July 25, 2017



Photo 186: Closure Turf: July 25, 2017



Photo 187: Closure Turf: July 25, 2017



Photo 188: Closure Turf: July 25, 2017



Photo 189: Closure Turf: July 25, 2017



Photo 190: Closure Turf: July 25, 2017



Photo 191: Closure Turf: July 25, 2017



Photo 192: Closure Turf: July 25, 2017



Photo 193: Closure Turf: July 25, 2017



Photo 194: Posi-Shell: July 25, 2017



Photo 195: Posi-Shell: July 25, 2017



Photo 196: Posi-Shell: July 25, 2017



Photo 197: Posi-Shell: July 25, 2017



Photo 198: Posi-Shell: July 25, 2017



Photo 199: Posi-Shell: July 25, 2017



Photo 200: Posi-Shell: July 25, 2017



Photo 201: Posi-Shell: July 25, 2017



Photo 202: Posi-Shell: July 25, 2017



Photo 203: Posi-Shell: July 25, 2017



Photo 204: Posi-Shell: July 25, 2017



Photo 205: Closure Turf & Posi-Shell: August 14, 2017



Photo 207: Closure Turf & Posi-Shell: August 14, 2017



Photo 206: Closure Turf & Posi-Shell: August 14, 2017



Photo 208: Closure Turf & Posi-Shell: August 14, 2017



Photo 209: Closure Turf & Posi-Shell: August 14, 2017



Photo 210: Closure Turf & Posi-Shell: August 14, 2017



Photo 211: Closure Turf & Posi-Shell: August 14, 2017



Photo 212: Closure Turf & Posi-Shell: August 14, 2017



Photo 213: Closure Turf & Posi-Shell: August 14, 2017



Photo 214: Closure Turf & Posi-Shell: August 14, 2017



Photo 215: Closure Turf & Posi-Shell: August 14, 2017



Photo 216: Closure Turf & Posi-Shell: August 14, 2017



Photo 217: Closure Turf & Posi-Shell: September 12, 2017



Photo 218: Closure Turf & Posi-Shell: September 12, 2017



Photo 219: Closure Turf & Posi-Shell: September 12, 2017



Photo 220: Closure Turf & Posi-Shell: September 12, 2017



Photo 221: Closure Turf & Posi-Shell: September 12, 2017



Photo 223: Closure Turf & Posi-Shell: September 12, 2017



Photo 222: Closure Turf & Posi-Shell: September 12, 2017



Photo 224: Closure Turf & Posi-Shell: September 12, 2017



Photo 225: Closure Turf & Posi-Shell: September 12, 2017



Photo 226: Closure Turf & Posi-Shell: September 12, 2017



Photo 227: Closure Turf & Posi-Shell: September 12, 2017



Photo 228: Closure Turf & Posi-Shell: September 12, 2017



Photo 229: Closure Turf: September 12, 2017



Photo 230: Closure Turf: September 12, 2017



Photo 231: Closure Turf: September 12, 2017



Photo 232: Closure Turf: September 12, 2017



Photo 233: Closure Turf: September 12, 2017



Photo 234: Closure Turf & Posi-Shell: September 26, 2017



Photo 235: Closure Turf & Posi-Shell: September 26, 2017



Photo 236: Closure Turf & Posi-Shell: September 26, 2017



Photo 237: Closure Turf & Posi-Shell: September 26, 2017



Photo 238: Closure Turf & Posi-Shell: September 26, 2017



Photo 239: Closure Turf & Posi-Shell: September 26, 2017



Photo 240: Closure Turf & Posi-Shell: September 26, 2017



Photo 241: Closure Turf & Posi-Shell: September 26, 2017



Photo 242: Closure Turf & Posi-Shell: September 26, 2017



Photo 243: Closure Turf & Posi-Shell: September 26, 2017



Photo 244: Closure Turf & Posi-Shell: September 26, 2017



Photo 245: Closure Turf & Posi-Shell: September 26, 2017



Photo 246: Closure Turf & Posi-Shell: September 26, 2017



Photo 247: Closure Turf & Posi-Shell: September 26, 2017



Photo 248: Closure Turf & Posi-Shell: September 26, 2017



Photo 249: Closure Turf & Posi-Shell: September 26, 2017



Photo 250: Closure Turf & Posi-Shell: September 26, 2017



Photo 251: Basin CC3B Area: July 11, 2017



Photo 252: Basin CC3B Area: July 11, 2017



Photo 253: Basin CC3B Area: July 11, 2017



Photo 254: Basin CC3B Area: July 11, 2017



Photo 255: Basin CC3B Area: July 11, 2017



Photo 256: Basin CC3B Area: July 11, 2017



Photo 257: CC3B Top Deck: July 11, 2017



Photo 258: CC3B Top Deck: July 11, 2017



Photo 259: CC3B Top Deck: July 11, 2017



Photo 260: CC3B Top Deck: July 11, 2017



Photo 261: Old City Lope South of Office: July 11, 2017



Photo 262: Old City Lope South of Office: July 11, 2017



Photo 263: CC3B Top Deck: July 25, 2017



Photo 264: CC3B Top Deck: July 25, 2017



Photo 265: CC3B Top Deck: July 25, 2017



Photo 266: CC3B Top Deck: July 25, 2017



Photo 267: CC3B Slope: July 25, 2017



Photo 268: CC3B Slope: July 25, 2017



Photo 269: Access Road Water Buffalo near CC3B Basin: July 25, 2017



Photo 270: CC3B Top Deck: August 14, 2017



Photo 271: CC3B Top Deck: August 14, 2017



Photo 272: CC3B Top Deck: September 12, 2017



Photo 273: CC3B Top Deck: September 12, 2017



Photo 274: CC3B Top Deck: September 12, 2017



Photo 275: CC3B Top Deck: September 12, 2017



Photo 276: CC3B Top Deck: September 12, 2017



Photo 277: CC3B Top Deck: September 26, 2017



Photo 278: CC3B Top Deck: September 26, 2017



Photo 279: CC3B Top Deck: September 26, 2017



Photo 280: CC3B Top Deck: September 26, 2017



Photo 281: CC3B Top Deck: September 26, 2017



Photo 282: CC3B Top Deck: September 26, 2017



Photo 283: CC3B Top Deck: September 26, 2017



Photo 284: CC3B Top Deck: September 26, 2017



Photo 285: CC3B Top Deck: September 26, 2017



Photo 286: CC3B Top Deck: September 26, 2017



Photo 287: CC3B Top Deck: September 26, 2017



Photo 288: Old City North Top Deck: July 25, 2017



Photo 289: Old City North Top Deck: August 14, 2017



Photo 290: Old City North-Eastern Top Deck: September 12, 2017



Photo 291: Old City North-Eastern Top Deck: September 26, 2017



Photo 292: City Top Deck Dust: September 26, 2017



Photo 293: City Top Deck Dust: September 26, 2017



Photo 295: County Sage Mitigation Slope: July 25, 2017



Photo 294: County Sage Mitigation Slope: July 25, 2017



Photo 296: County Sage Mitigation Slope: July 25, 2017



Photo 297: County Sage Mitigation Slope: July 25, 2017



Photo 298: County Sage Mitigation Slope: July 25, 2017



Photo 299: County Sage Mitigation Slope: July 25, 2017



Photo 300: County Sage Mitigation Slope: July 25, 2017



Photo 301: County Sage Mitigation Slope: July 25, 2017



Photo 302: County Sage Mitigation Area: August 14, 2017



Photo 303: County Sage Mitigation Area: August 14, 2017



Photo 304: County Sage Mitigation Area: September 26, 2017



Photo 305: County Sage Mitigation Area: September 26, 2017



Photo 306: County Sage Mitigation Area: September 26, 2017



Photo 307: County Sage Mitigation Area Slope: September 26, 2017



Photo 308: County Sage Mitigation Area Slope: September 26, 2017



Photo 309: County Sage Mitigation Area Slope: September 26, 2017



Photo 310: County Sage Mitigation Area Slope: September 26, 2017



Photo 311: County Sage Mitigation Area Slope: September 26, 2017



Photo 312: County Sage Mitigation Area Slope: September 26, 2017



Photo 313: County Sage Mitigation Area Slope: September 26, 2017



Photo 314: County Sage Mitigation Area Slope: September 26, 2017



Photo 315: County Sage Mitigation Area Slope: September 26, 2017



Photo 316: County Sage Mitigation Area Slope: September 26, 2017



Photo 317: County Sage Mitigation Area Slope: September 26, 2017



Photo 318: County Sage Mitigation Area Slope: September 26, 2017



Photo 319: Westside Drainage Channel: September 26, 2017



Photo 320: Westside Drainage Channel: September 26, 2017



Photo 321: Westside Drainage Channel: September 26, 2017



Photo 322: Waste Material near Basin D Storage Area: August 14, 2017



Photo 323: Waste Material near Basin D Storage Area: August 14, 2017



Photo 324: Waste Material near Basin D Storage Area: August 14, 2017



Photo 325: Waste Material near Basin D Storage Area: September 12, 2017



Photo 326: Waste Material near Basin D Storage Area: September 12, 2017



Photo 327: Waste Material near Basin D Storage Area: September 26, 2017



Photo 328: Waste Material near Basin D Storage Area: September 26, 2017



Photo 329: Flare 9 & 10 Blowers: July 11, 2017



Photo 330: Flare 9 & 10 Blower Knockout Liquids: July 11, 2017



Photo 331: Flare 9 & 10 Blowers and Flares: July 25, 2017



Photo 332: Flare 9 & 10 Blowers and Flares: July 25, 2017



Photo 333: Flare 9 & 10 Blowers and Flares: July 25, 2017



Photo 335: Flare 9 & 10 Blowers and Flares: July 25, 2017



Photo 334: Flare 9 & 10 Blowers and Flares: July 25, 2017



Photo 336: Flare 9 & 10: August 14, 2017



Photo 337: Flare 9 & 10: August 14, 2017



Photo 338: Flare 9 & 10: August 14, 2017



Photo 339: Flare 10 New Louvers: August 14, 2017



Photo 340: Flare 9 & 10: September 12, 2017



Photo 341: Flare 9 & 10: September 12, 2017



Photo 342: Flare 9 & 10 Thermic Plume: September 12, 2017



Photo 343: Flare 9 & 10 Thermic Plume: September 12, 2017



Photo 344: Flare 11 Pad: September 12, 2017



Photo 345: Flare 9 & 10: September 26, 2017



Photo 346: Flare 11 Site Location: September 26, 2017



Photo 347: Flare 11 Site Location: September 26, 2017



Photo 348: Flare 11 Site Location: September 26, 2017



Photo 349: Flare 11 Site Location: September 26, 2017



Photo 350: County Top Deck: July 25, 2017



Photo 351: County Top Deck: July 25, 2017



Photo 352: County Top Deck: July 25, 2017



Photo 353: County Top Deck: July 25, 2017



Photo 354: County Top Deck: July 25, 2017



Photo 355: County Top Deck: July 25, 2017



Photo 356: County Top Deck: July 25, 2017



Photo 357: County Top Deck: July 25, 2017



Photo 358: County Top Deck: July 25, 2017



Photo 359: County Top Deck: July 25, 2017



Photo 360: County Top Deck: August 14, 2017



Photo 361: County Top Deck: August 14, 2017



Photo 362: County Top Deck: August 14, 2017



Photo 363: County Top Deck: August 14, 2017



Photo 364: County Top Deck: August 14, 2017



Photo 365: County Top Deck: August 14, 2017



Photo 366: County Top Deck: August 14, 2017



Photo 367: County Top Deck: September 26, 2017



Photo 368: County Top Deck: September 26, 2017



Photo 369: County Top Deck: September 26, 2017



Photo 370: County Top Deck: September 26, 2017



Photo 371: County Top Deck: September 26, 2017



Photo 372: County Top Deck: September 26, 2017



Photo 373: County Top Deck: September 26, 2017



Photo 374: Basin B: July 11, 2017



Photo 375: Basin B: July 11, 2017



Photo 376: Basin B: July 11, 2017



Photo 377: Basin B: July 11, 2017



Photo 378: Basin B: July 11, 2017



Photo 379: Basin B: July 25, 2017



Photo 380: Basin B: July 25, 2017



Photo 381: Basin B: July 25, 2017



Photo 382: Basin B: July 25, 2017



Photo 383: Basin B: August 14, 2017



Photo 384: Basin B: August 14, 2017



Photo 385: Basin B: August 14, 2017



Photo 386: Basin B: August 14, 2017



Photo 387: Basin B: September 12, 2017



Photo 388: Basin B: September 12, 2017



Photo 389: Basin B: September 12, 2017



Photo 390: Basin B: September 12, 2017



Photo 391: Basin B: September 26, 2017



Photo 392: Basin B: September 26, 2017



Photo 393: Basin B: September 26, 2017



Photo 394: Basin B: September 26, 2017



Photo 395: Basin B: September 26, 2017



Photo 396: Terminal Basin Inlet: July 11, 2017



Photo 397: Terminal Basin Inlet: July 11, 2017



Photo 398: Terminal Basin Inlet: July 25, 2017



Photo 399: Terminal Basin Inlet: July 25, 2017



Photo 400: Terminal Basin Inlet: July 25, 2017



Photo 401: Terminal Basin Inlet: July 25, 2017



Photo 402: Terminal Basin Inlet: July 25, 2017



Photo 403: Terminal Basin Inlet: July 25, 2017



Photo 404: Terminal Basin Inlet: July 25, 2017



Photo 405: Terminal Basin Inlet: July 25, 2017



Photo 406: Terminal Basin Inlet: August 14, 2017



Photo 407: Terminal Basin Inlet: August 14, 2017



Photo 408: Terminal Basin Inlet: August 14, 2017



Photo 409: Terminal Basin Inlet: August 14, 2017



Photo 410: Terminal Basin Inlet Channel Deep Erosion: September 12, 2017



Photo 411: Terminal Basin Inlet Channel Deep Erosion: September 12, 2017



Photo 412: Terminal Basin Inlet Channel Deep Erosion: September 12, 2017



Photo 413: Terminal Basin Inlet Channel Deep Erosion: September 12, 2017



Photo 414: Terminal Basin Inlet: September 12, 2017



Photo 415: Terminal Basin Inlet Dirt Berm: September 12, 2017



Photo 416: Terminal Basin Inlet: September 12, 2017



**Photo 417: Terminal Basin Inlet Channel Erosion Repaired:
September 26, 2017**



**Photo 418: Terminal Basin Inlet Channel Erosion Repaired:
September 26, 2017**



**Photo 419: Terminal Basin Inlet Channel Erosion Repaired:
September 26, 2017**



**Photo 420: Terminal Basin Inlet Channel Erosion Repaired:
September 26, 2017**



**Photo 421: Terminal Basin Inlet Channel Erosion Repaired:
September 26, 2017**



Photo 422: Terminal Basin Inlet: September 26, 2017



Photo 423: Terminal Basin Inlet: September 26, 2017



Photo 424: Terminal Basin: July 11, 2017



Photo 425: Terminal Basin: July 11, 2017



Photo 426: Terminal Basin: July 11, 2017



Photo 427: Terminal Basin: July 11, 2017



Photo 428: Terminal Basin: July 11, 2017



Photo 429: Terminal Basin: July 11, 2017



Photo 430: Terminal Basin: July 11, 2017



Photo 431: Old City Slope South of Terminal Basin: July 11, 2017



Photo 432: Old City Slope South of Terminal Basin: July 11, 2017



Photo 433: Terminal Basin: July 25, 2017



Photo 434: Terminal Basin: July 25, 2017



Photo 435: Terminal Basin: July 25, 2017



Photo 436: Terminal Basin: July 25, 2017



Photo 437: Terminal Basin: July 25, 2017



Photo 438: Terminal Basin: July 25, 2017



Photo 439: Terminal Basin: July 25, 2017



Photo 440: Terminal Basin: July 25, 2017



Photo 441: Terminal Basin: July 25, 2017



Photo 442: Terminal Basin: July 25, 2017



Photo 443: Access Road Slope Wet Area near Terminal Basin: July 25, 2017



Photo 444: Terminal Basin Alluvial Water Seep: August 14, 2017



Photo 445: Terminal Basin Alluvial Water Seep: August 14, 2017



Photo 446: Terminal Basin Alluvial Water Seep: August 14, 2017



Photo 447: Terminal Basin: August 14, 2017



Photo 448: Terminal Basin: August 14, 2017



Photo 449: Terminal Basin: August 14, 2017



Photo 450: Terminal Basin: August 14, 2017



Photo 451: Access Road Prior Slope Wet Area near Terminal Basin: August 14, 2017



Photo 452: Terminal Basin Alluvial Water Seep Stopped: September 12, 2017



**Photo 453: Terminal Basin Alluvial Water Seep Stopped:
September 12, 2017**



Photo 454: Terminal Basin: September 12, 2017



Photo 455: Terminal Basin: September 12, 2017



Photo 456: Terminal Basin: September 12, 2017



Photo 457: Photo Terminal Basin: September 12, 2017



Photo 458: Terminal Basin: September 12, 2017



Photo 459: Terminal Basin: September 12, 2017



Photo 460: Terminal Basin Outlet Risers: September 12, 2017



Photo 461: Terminal Basin Outlet Risers: September 12, 2017



**Photo 462: Terminal Basin San Fernando Road Exterior Wall:
September 12, 2017**



**Photo 463: Terminal Basin San Fernando Road Exterior Wall:
September 12, 2017**



**Photo 464: Terminal Basin San Fernando Road Exterior Wall:
September 12, 2017**

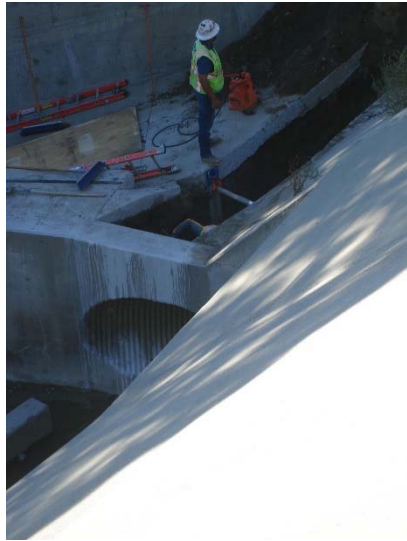


Photo 465: Terminal Basin Outlet Roadway Cattleguard Construction: September 12, 2017



Photo 466: Terminal Basin Outlet Roadway Cattleguard Construction: September 12, 2017



Photo 467: Terminal Basin Outlet Roadway Cattleguard Construction: September 12, 2017



Photo 468: Terminal Basin Outlet Roadway Cattleguard Construction: September 12, 2017



Photo 469: Terminal Basin Outlet Roadway Cattleguard Construction: September 12, 2017



Photo 470: Terminal Basin Outlet Roadway Cattleguard Construction: September 12, 2017



Photo 471: Damaged Wind Meter at Terminal Basin: September 12, 2017

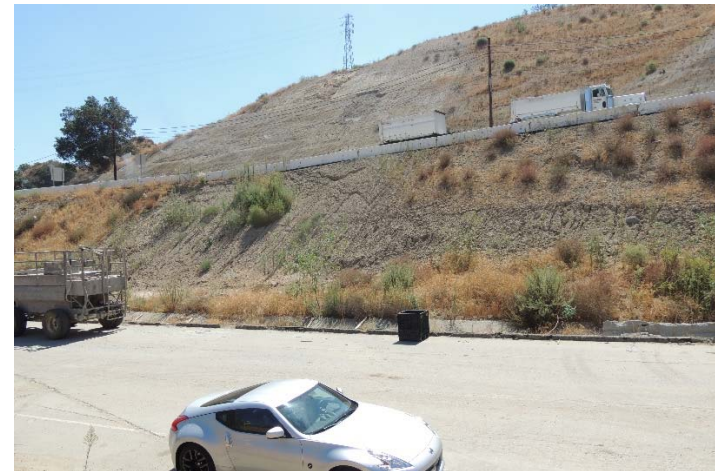


Photo 472: Access Road Prior Slope Wet Area near Terminal Basin: September 12, 2017



Photo 473: Access Road Prior Slope Wet Area near Terminal Basin: September 12, 2017



Photo 474: Access Road Prior Slope Wet Area near Terminal Basin: September 12, 2017



Photo 475: Access Road Prior Slope Wet Area near Terminal Basin: September 12, 2017



Photo 476: Access Road Prior Slope Wet Area near Terminal Basin: September 12, 2017



Photo 477: Access Road Prior Slope Wet Area near Terminal Basin: September 12, 2017



Photo 478: Access Road Prior Slope Wet Area near Terminal Basin: September 12, 2017



Photo 479: Terminal Basin: September 26, 2017



Photo 480: Terminal Basin: September 26, 2017



Photo 481: Terminal Basin: September 26, 2017



Photo 482: Terminal Basin: September 26, 2017



Photo 483: Terminal Basin: September 26, 2017



Photo 484: Terminal Basin: September 26, 2017



Photo 485: Terminal Basin: September 26, 2017



Photo 486: Terminal Basin: September 26, 2017



Photo 487: Terminal Basin: September 26, 2017



Photo 488: Terminal Basin Outlet Risers: September 26, 2017



Photo 489: Terminal Basin Outlet Risers: September 26, 2017



Photo 490: Terminal Basin Outlet Risers: September 26, 2017



Photo 491: Terminal Basin Outlet Risers: September 26, 2017



Photo 492: Terminal Basin Outlet Risers: September 26, 2017



Photo 493: Terminal Basin Outlet Risers: September 26, 2017



Photo 494: Terminal Basin Outlet Risers: September 26, 2017



Photo 495: Terminal Basin Outlet Risers: September 26, 2017



Photo 496: Terminal Basin Outlet Risers: September 26, 2017



Photo 497: Terminal Basin Outlet Risers: September 26, 2017



Photo 498: Terminal Basin Outlet Risers Modification Piping: September 26, 2017



Photo 499: Access Road Prior Slope Wet Area near Terminal Basin: September 26, 2017

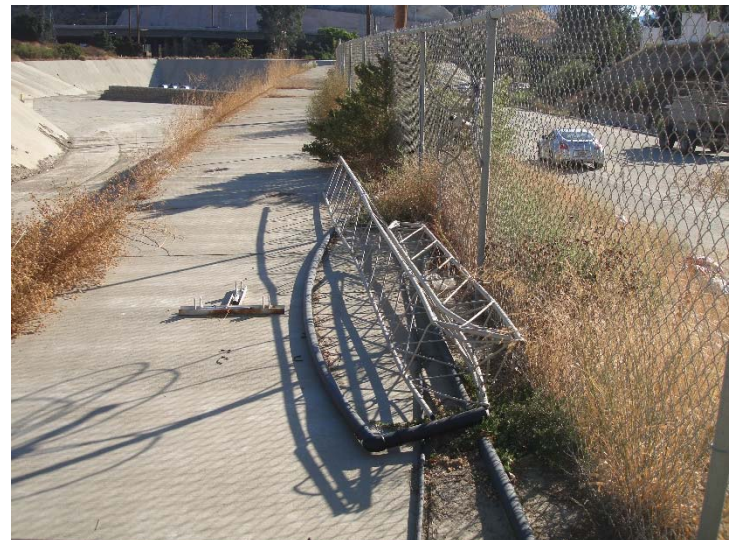


Photo 500: Wind Meter at Terminal Basin Removed: September 26, 2017



**Photo 501: Debris at Front Terminal Basin Exterior Wall:
September 26, 2017**



**Photo 502: Brush Growing in Terminal Basin Concrete Cracks:
September 26, 2017**



**Photo 503: Terminal Basin Outlet Roadway Cattleguard
Construction: September 26, 2017**



**Photo 504: Terminal Basin Outlet Roadway Cattleguard
Construction: September 26, 2017**



Photo 505: Terminal Basin Outlet Roadway Cattleguard Construction: September 26, 2017



Photo 506: Terminal Basin Outlet Roadway Cattleguard Construction: September 26, 2017



Photo 507: Terminal Basin Outlet Roadway Cattleguard Construction: September 26, 2017



Photo 508: Terminal Basin Outlet Roadway Cattleguard Construction: September 26, 2017



Photo 509: Odor from Uncovered Sewer Pump Access: August 14, 2017



Photo 510: Odor from Uncovered Sewer Pump Access: August 14, 2017



Photo 511: Potable Water Leak near Sewer Pump Repaired: August 14, 2017



Photo 512: Localized Odor near Sewer Lift Pump: September 12, 2017



Photo 513: Localized Odor Near Sewer Lift Pump: September 26, 2017



Photo 514: Leachate Treatment System Drainage Cleaned: September 26, 2017



Photo 515: Leachate Treatment System General Area Cleaned: September 26, 2017



Photo 516: Leachate Treatment System Spill Containment Area Cleaned: September 26, 2017



Photo 517: Leachate Treatment System Temporary Strong Localized Odor: September 26, 2017



Photo 518: Leachate Treatment System Temporary Strong Localized Odor: September 26, 2017



Photo 519: Retaining Wall Slope on San Fernando Road: July 11, 2017



Photo 520: Retaining Wall Slope on San Fernando Road: July 11, 2017



**Photo 521: Frontage Retaining Wall Slope on San Fernando Road:
September 12, 2017**



**Photo 522: Frontage Retaining Wall Slope on San Fernando
Road: September 12, 2017**



**Photo 523: Frontage Retaining Wall Slope on San Fernando Road:
September 12, 2017**



**Photo 524: Frontage Retaining Wall Slope on San Fernando
Road: September 12, 2017**



**Photo 525: Frontage Retaining Wall Slope on San Fernando Road:
September 12, 2017**



**Photo 526: Frontage Retaining Wall Slope on San Fernando
Road: September 12, 2017**



**Photo 527: Frontage Retaining Wall Slope on San Fernando Road:
September 12, 2017**



**Photo 528: Frontage Retaining Wall Slope on San Fernando
Road: September 12, 2017**



**Photo 529: Frontage Retaining Wall Slope on San Fernando Road:
September 12, 2017**



**Photo 530: Frontage Retaining Wall Slope on San Fernando
Road: September 12, 2017**



**Photo 531: Frontage Retaining Wall Slope on San Fernando Road:
September 26, 2017**



**Photo 532: Frontage Retaining Wall Slope on San Fernando
Road: September 26, 2017**



**Photo 533: Frontage Retaining Wall Slope on San Fernando Road:
September 26, 2017**



**Photo 534: Frontage Retaining Wall Slope on San Fernando
Road: September 26, 2017**



**Photo 535: Frontage Retaining Wall Slope on San Fernando Road:
September 26, 2017**



**Photo 536: Frontage Retaining Wall Slope on San Fernando
Road: September 26, 2017**



**Photo 537: Frontage Retaining Wall Slope on San Fernando Road:
September 26, 2017**



**Photo 538: Frontage Retaining Wall Slope on San Fernando
Road: September 26, 2017**



Photo 539: Deck C Sage Mitigation Area: July 26, 2017



Photo 540: Deck C Sage Mitigation Area: July 26, 2017



Photo 541: Deck C Sage Mitigation Area: July 26, 2017



Photo 542: Deck C Sage Mitigation Area: July 26, 2017



Photo 543: Deck C Sage Mitigation Area: July 26, 2017



Photo 544: Deck C Sage Mitigation Area: July 26, 2017



Photo 545: Deck C PM10 Oak Trees: July 25, 2017



Photo 546: Deck C PM10 Oak Trees: July 25, 2017

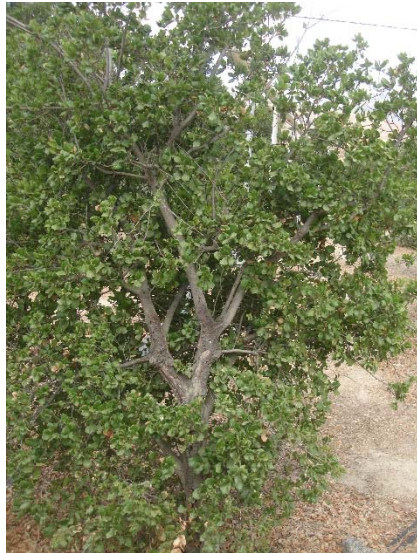


Photo 547: Deck C PM10 Oak Trees: July 25, 2017



Photo 548: Deck C PM10 Oak Trees: July 25, 2017



Photo 549: Deck C PM10 Oak Trees: July 25, 2017



Photo 550: Deck C PM10 Oak Trees: July 25, 2017



Photo 551: Deck C Sage Mitigation Area: July 25, 2017



Photo 552: Deck C Sage Mitigation Area: July 25, 2017



Photo 553: Deck C Sage Mitigation Area: July 25, 2017



Photo 554: Deck C Sage Mitigation Area: July 25, 2017



Photo 555: Deck C Sage Mitigation Area: July 25, 2017



Photo 556: Deck C Sage Mitigation Area: July 25, 2017



Photo 557: Deck C Sage Mitigation Area: July 25, 2017



Photo 559: Deck C Sage Mitigation Area: July 25, 2017



Photo 558: Deck C Sage Mitigation Area: July 25, 2017



Photo 560: Deck C Sage Mitigation Area: August 14, 2017



Photo 561: Deck C Sage Mitigation Area: August 14, 2017



Photo 562: Deck C Sage Mitigation Area: August 14, 2017



Photo 563: Deck C PM10 Oak Trees: August 14, 2017



Photo 564: Deck C PM10 Oak Trees: August 14, 2017



Photo 565: Deck C PM10 Oak Trees: August 14, 2017



Photo 566: Deck C PM10 Oak Trees: August 14, 2017



Photo 567: Deck C PM10 Oak Trees: August 14, 2017



Photo 568: Deck C PM10 Oak Trees: August 14, 2017



Photo 569: Deck C PM10 Oak Trees: August 14, 2017



Photo 570: Deck C PM10 Oak Trees: August 14, 2017



Photo 571: Deck C PM10 Oak Trees: August 14, 2017



Photo 572: Deck C PM10 Oak Trees: August 14, 2017



Photo 573: Deck C PM10 Oak Trees: August 14, 2017



Photo 574: Deck C Sage Mitigation Area: August 14, 2017



Photo 575: Deck C Sage Mitigation Area: August 14, 2017



Photo 576: Deck C Sage Mitigation Area: August 14, 2017



Photo 577: Deck C Sage Mitigation Area: August 14, 2017



Photo 578: Deck C Sage Mitigation Area: August 14, 2017



Photo 579: Deck C Sage Mitigation Area Dust Boss: September 26, 2017



Photo 580: Deck C Sage Mitigation Area Dust Boss: September 26, 2017



Photo 581: Deck C Sage Mitigation Area Dust Boss: September 26, 2017



Photo 582: Deck C Sage Mitigation Area Dust Boss: September 26, 2017



Photo 583: Deck C Sage Mitigation Area Dust Boss: September 26, 2017



Photo 584: PM10 Berm Area: September 26, 2017



Photo 585: PM10 Berm Area: September 26, 2017



Photo 587: PM10 Berm Area: September 26, 2017



Photo 586: PM10 Berm Area: September 26, 2017



Photo 588: PM10 Berm Area: September 26, 2017



Photo 589: Deck C Sage Mitigation Area: September 26, 2017



Photo 590: Deck C Sage Mitigation Area: September 26, 2017



Photo 591: Deck C Sage Mitigation Area: September 26, 2017



Photo 592: Deck C Sage Mitigation Area: September 26, 2017



Photo 593: Deck C Sage Mitigation Area: September 26, 2017



Photo 594: Deck C Sage Mitigation Area: September 26, 2017



Photo 595: Deck C Sage Mitigation Area: September 26, 2017



Photo 596: Deck C Sage Mitigation Area: September 26, 2017



Photo 597: Deck B Sage Mitigation Area: July 25, 2017



Photo 598: Deck B Sage Mitigation Area: July 25, 2017



Photo 599: Deck B Sage Mitigation Area: July 25, 2017



Photo 600: Deck B Sage Mitigation Area: July 25, 2017



Photo 601: Deck B Sage Mitigation Area: July 25, 2017



Photo 602: Deck B Sage Mitigation Area: July 25, 2017



Photo 603: Deck B Sage Mitigation Area: July 25, 2017



Photo 604: Deck B Sage Mitigation Area: July 25, 2017



Photo 605: Deck B Sage Mitigation Area: July 25, 2017



Photo 606: Deck B Sage Mitigation Area: July 25, 2017



Photo 607: Deck B Sage Mitigation Area: July 25, 2017



Photo 608: Deck B Sage Mitigation Area: July 25, 2017



Photo 609: Deck B Sage Mitigation Area Drainage Channel: July 25, 2017



Photo 610: Deck B Slopes & Drainage Channel near Flare 1: July 25, 2017



Photo 611: Deck B Slopes & Drainage Channel near Flare 1: July 25, 2017



Photo 612: Deck B Slopes & Drainage Channel near Flare 1: July 25, 2017



Photo 613: Deck B Slopes & Drainage Channel near Flare 1: July 25, 2017



Photo 614: Deck B Slopes & Drainage Channel near Flare 1: July 25, 2017



Photo 615: Deck B Slopes & Drainage Channel near Flare 1: July 25, 2017



Photo 616: Deck B Sage Mitigation Area: August 14, 2017



Photo 617: Deck B Sage Mitigation Area: August 14, 2017



Photo 618: Deck B Sage Mitigation Area: September 12, 2017



Photo 619: Deck B Sage Mitigation Area: September 12, 2017



Photo 620: Deck B Sage Mitigation Area: September 12, 2017



Photo 621: Deck B Sage Mitigation Area: September 12, 2017



Photo 622: Deck B Sage Mitigation Area: September 12, 2017



Photo 623: Deck B Sage Mitigation Area: September 12, 2017



Photo 624: Deck B Sage Mitigation Area: September 26, 2017



Photo 625: Deck B Sage Mitigation Area: September 26, 2017



Photo 626: Deck B Sage Mitigation Area: September 26, 2017



Photo 627: Deck B Sage Mitigation Area: September 26, 2017



Photo 628: Deck B Sage Mitigation Area: September 26, 2017



Photo 629: Deck B Sage Mitigation Area: September 26, 2017



Photo 630: Flare 1 Blower Skid: July 25, 2017



Photo 631: Flare 1 Blower Skid: July 25, 2017



Photo 632: Flare 1 Leaking Flange: July 25, 2017



Photo 633: Flare 1: August 14, 2017



Photo 634: Flare 1: August 14, 2017



Photo 635: Slope Drainage above Flare 1 Erosion: September 12, 2017



Photo 636: Slope Drainage above Flare 1 Erosion: September 12, 2017



Photo 637: Slope Drainage above Flare 1 Erosion: September 26, 2017



Photo 638: Slope Drainage above Flare 1 Erosion: September 26, 2017



Photo 639: Old City Landfill Slope South of Office Parking Lot: September 26, 2017



Photo 640: Old City Landfill Slope South of Office Parking Lot: September 26, 2017



Photo 641: Deck A Sage Mitigation Area: July 25, 2017



Photo 642: Deck A Sage Mitigation Area: July 25, 2017



Photo 643: Deck A Sage Mitigation Area: July 25, 2017



Photo 644: Deck A Sage Mitigation Area: July 25, 2017



Photo 645: Deck A Sage Mitigation Area: August 14, 2017



Photo 646: Deck A Sage Mitigation Area: August 14, 2017



Photo 647: Deck A Sage Mitigation Area: August 14, 2017



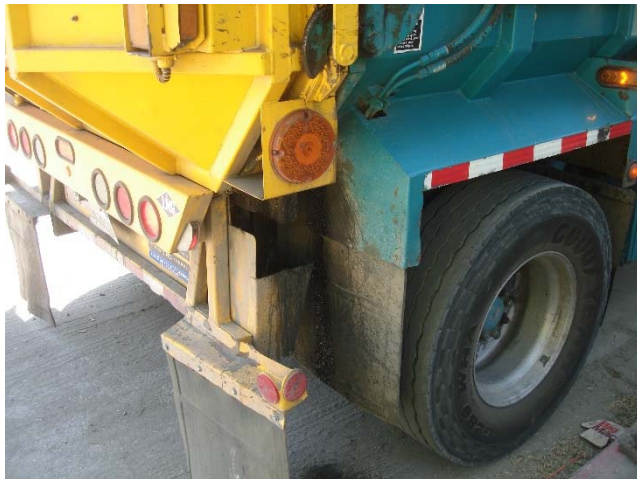
Photo 648: Deck A Sage Mitigation Area: August 14, 2017



Photo 649: DCOR Oil Field without Power: August 14, 2017



Photo 650: Vegetation Test Area: August 14, 2017



**Photo 651: Empty City Truck Parked on San Fernando Road
Leaking Liquids: July 11, 2017**



**Photo 652: Liquids on Pavement- Balboa Blvd at Woodley Ave:
July 11, 2017**



Photo 653: Liquids on Pavement- Balboa Blvd at Woodley Ave: July 11, 2017



Photo 654: Liquids on Pavement- Balboa Blvd at Woodley Ave: July 11, 2017



Photo 655: Illegal Dumping at Sierra Highway near I-14 Overpass: July 11, 2017



Photo 656: Illegal Dumping at Sierra Highway near I-14 Overpass: July 11, 2017



**Photo 657: Illegal Dumping at Sierra Highway near I-14 Overpass:
July 11, 2017**



**Photo 658: Litter at Sierra Highway near I-14 Overpass: July 11,
2017**



**Photo 659: Litter at Sierra Highway near I-14 Overpass: July 11,
2017**



**Photo 660: Litter at Sierra Highway near I-14 Overpass: July 11,
2017**



Photo 661: Litter at Sierra Highway near I-14 Overpass: July 11, 2017



Photo 662: Illegal Dumping on San Fernando Road near I-5 Overpass: July 11, 2017



Photo 663: Illegal Dumping on San Fernando Road near I-5 Overpass: July 11, 2017



Photo 664: Illegal Dumping on San Fernando Road near I-5 Overpass: July 11, 2017



Photo 665: Illegal Dumping on San Fernando Road near I-5 Overpass: July 11, 2017



Photo 666: Illegal Dumping on San Fernando Road near I-5 Overpass: July 11, 2017



Photo 667: Illegal Dumping on San Fernando Road near I-5 Overpass: July 11, 2017



Photo 668: Illegal Dumping on San Fernando Road near I-5 Overpass: July 11, 2017



Photo 669: Illegal Dumping on San Fernando Road near I-5 Overpass: July 11, 2017



Photo 670: Illegal Dumping on San Fernando Road near I-5 Overpass: July 11, 2017



Photo 671: Illegal Dumping on San Fernando Road near I-5 Overpass: July 11, 2017



Photo 672: Illegal Dumping on San Fernando Road near I-5 Overpass: July 11, 2017



Photo 673: Blown Litter against Westside Header: August 14, 2017



Photo 674: San Fernando Road near I-5 overpass: August 14, 2017



Photo 675: San Fernando Road near I-5 overpass: August 14, 2017



Photo 676: San Fernando Road near I-5 overpass: August 14, 2017



Photo 677: San Fernando Road near I-5 overpass: August 14, 2017



Photo 678: San Fernando Road near I-5 overpass: August 14, 2017



**Photo 679: Liquids on Pavement- Balboa Blvd at Woodley Ave:
August 14, 2017**



**Photo 680: Liquids on Pavement- Balboa Blvd at Woodley Ave:
August 14, 2017**



**Photo 681: Liquids on Pavement- Balboa Blvd at Woodley Ave:
August 14, 2017**



**Photo 682: Liquids on Pavement- Balboa Blvd at Woodley Ave:
August 14, 2017**



**Photo 683: Illegal Dumping at Sierra Highway near I-14 Overpass:
September 12, 2017**



**Photo 684: Illegal Dumping at Sierra Highway near I-14
Overpass: September 12, 2017**



**Photo 685: Illegal Dumping at Sierra Highway near I-14 Overpass:
September 12, 2017**



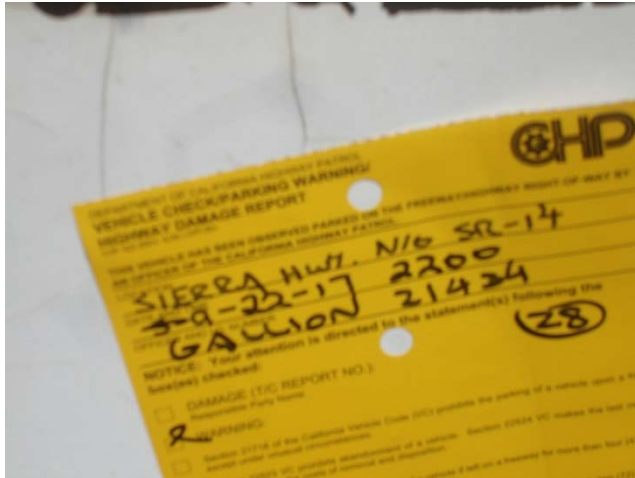
**Photo 686: Illegal Dumping at Sierra Highway near I-14
Overpass: September 12, 2017**



**Photo 687: Illegal Dumping at Sierra Highway near I-14 Overpass:
September 26, 2017**



**Photo 688: Illegal Dumping at Sierra Highway near I-14
Overpass: September 26, 2017**



**Photo 689: Illegal Dumping at Sierra Highway near I-14 Overpass:
September 26, 2017**



**Photo 690: Liquids on Pavement - Balboa Blvd at Woodley Ave:
September 26, 2017**



**Photo 691: Liquids on Pavement - Balboa Blvd at Woodley Ave:
September 26, 2017**



**Photo 692: No Offsite Odors Detected at Foothill Compost
Facility: July 11, 2017**



**Photo 693: No Offsite Odors Detected at Foothill Compost Facility:
July 11, 2017**



**Photo 694: No Offsite Odors Detected at Foothill Compost
Facility: July 11, 2017**



**Photo 695: No Offsite Odors Detected at Foothill Compost Facility:
July 11, 2017**



**Photo 696: Greenwaste Recycling Facilities on Blucher Road:
July 11, 2017**



Photo 697: Greenwaste Recycling Facilities on Blucher Road: July 11, 2017



Photo 698: Greenwaste Recycling Facilities on Blucher Road: July 11, 2017

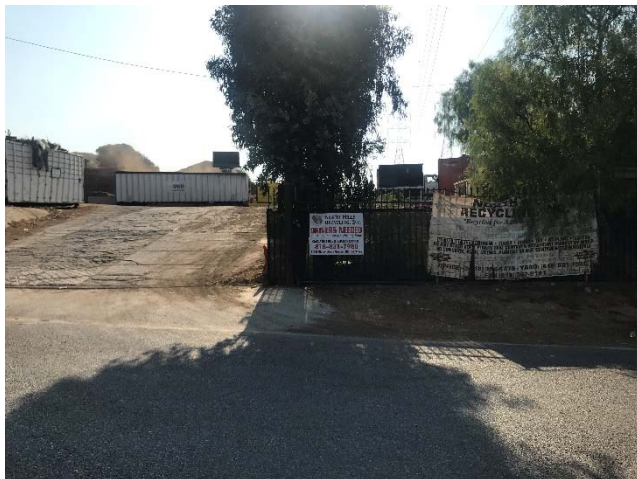


Photo 699: Greenwaste Recycling Facilities on Blucher Road: July 11, 2017



Photo 700: Site Scale 856AM: August 14, 2017



Photo 701: Site Scale 930AM: August 14, 2017



Photo 702: Site Scale 930AM: August 14, 2017



Photo 703: Site Scale 930AM: August 14, 2017



Photo 704: Site Scale 843AM: September 12, 2017



Photo 705: Site Scale 843AM: September 12, 2017



Photo 706: Site Scale 843AM: September 12, 2017



Photo 707: Site: July 25, 2017



Photo 708: Site: July 25, 2017



Photo 709: Site: July 25, 2017



Photo 710: Site: July 25, 2017



Photo 711: Site: July 25, 2017



Photo 712: Site: July 25, 2017



Photo 713: Site: July 25, 2017



Photo 714: Site: July 25, 2017



Photo 715: Site: July 25, 2017



Photo 716: Site: July 25, 2017



Photo 717: Site: July 25, 2017



Photo 718: Site: July 25, 2017



Photo 719: Site: July 25, 2017



Photo 720: Site: July 25, 2017



Photo 721: Site: July 25, 2017



Photo 722: Site: July 25, 2017



Photo 723: Site: July 25, 2017



Photo 724: Site: July 25, 2017



Photo 725: Site: July 25, 2017



Photo 726: Site: July 25, 2017



Photo 727: Site: July 25, 2017



Photo 728: Site: July 25, 2017



Photo 729: Site: July 25, 2017



Photo 730: Site: July 25, 2017



Photo 731: Site: July 25, 2017



Photo 732: Site: July 25, 2017



Photo 733: Site: July 25, 2017



Photo 734: Site: July 25, 2017



Photo 735: Site: July 25, 2017



Photo 736: Cat Footprint: August 14, 2017



Photo 737: Cat Footprint: August 14, 2017



Photo 738: Site: August 14, 2017



Photo 739: Site: August 14, 2017



Photo 740: Site: August 14, 2017



Photo 741: Site: August 14, 2017



Photo 742: Site: August 14, 2017



Photo 743: Site: August 14, 2017



Photo 744: Site: August 14, 2017



Photo 745: Site: August 14, 2017



Photo 746: Site: August 14, 2017



Photo 747: Site: August 14, 2017



Photo 748: Site: August 14, 2017



Photo 749: Site: August 14, 2017



Photo 750: Site: August 14, 2017



Photo 751: Site: August 14, 2017



Photo 752: Site: August 14, 2017



Photo 753: Site: August 14, 2017



Photo 754: Site: August 14, 2017



Photo 755: Site: August 14, 2017



Photo 756: Site: August 14, 2017



Photo 757: Site: August 14, 2017



Photo 758: Site: August 14, 2017



Photo 759: Site: August 14, 2017



Photo 760: Site: August 14, 2017



Photo 761: Site: August 14, 2017



Photo 762: Site: August 14, 2017



Photo 763: Site: August 14, 2017



Photo 764: Site: August 14, 2017



Photo 765: Site: August 14, 2017



Photo 766: Site: August 14, 2017



Photo 767: Site: August 14, 2017



Photo 768: Site: August 14, 2017



Photo 769: Site: August 14, 2017



Photo 770: Site: August 14, 2017



Photo 771: Site: August 14, 2017



Photo 772: Site: August 14, 2017



Photo 773: Site: August 14, 2017



Photo 774: Site: August 14, 2017



Photo 775: Site: August 14, 2017



Photo 776: Site: August 14, 2017



Photo 777: Site: August 14, 2017



Photo 778: Site: August 14, 2017



Photo 779: Site: September 12, 2017



Photo 780: Site: September 12, 2017



Photo 781: Site: September 12, 2017



Photo 782: Site: September 12, 2017



Photo 783: Site: September 12, 2017

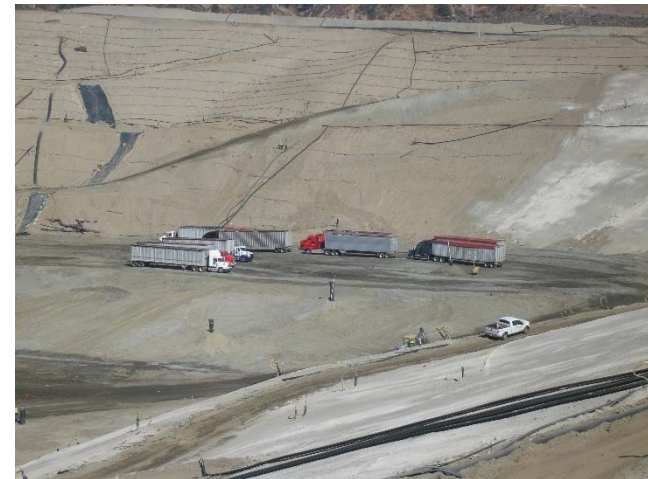


Photo 784: Site: September 12, 2017



Photo 785: Site: September 12, 2017



Photo 786: Site: September 12, 2017



Photo 787: Site: September 12, 2017



Photo 788: Site: September 12, 2017



Photo 789: Site: September 12, 2017



Photo 790: Site: September 12, 2017



Photo 791: Site: September 12, 2017



Photo 792: Site: September 12, 2017



Photo 793: Site: September 12, 2017



Photo 794: Site: September 12, 2017



Photo 795: Site: September 12, 2017



Photo 796: Site: September 12, 2017



Photo 797: Site: September 12, 2017



Photo 798: Site: September 12, 2017



Photo 799: Site: September 12, 2017



Photo 800: Site: September 12, 2017



Photo 801: Site: September 12, 2017



Photo 802: Site: September 12, 2017



Photo 803: Site: September 12, 2017



Photo 804: Site: September 12, 2017



Photo 805: Site: September 26, 2017



Photo 806: Site: September 26, 2017



Photo 807: Site: September 26, 2017



Photo 808: Site: September 26, 2017



Photo 809 Site: September 26, 2017



Photo 810: Site: September 26, 2017



Photo 811: Site: September 26, 2017



Photo 812: Site: September 26, 2017



Photo 813: Site: September 26, 2017



Photo 814: Site: September 26, 2017



Photo 815: Site: September 26, 2017



Photo 816: Site: September 26, 2017



Photo 817: Site: September 26, 2017



Photo 818: Site: September 26, 2017



Photo 819: Site: September 26, 2017



Photo 820: Site: September 26, 2017



Photo 821: Site: September 26, 2017



Photo 822: Basin D Outlet Channel: September 12, 2017



Photo 823: Basin D Outlet Channel: September 12, 2017



Photo 824: Basin D Outlet Channel: September 12, 2017



Photo 825: Basin D Outlet Channel: September 12, 2017



Photo 826: Basin D Outlet Channel: September 12, 2017



Photo 827: Basin D Outlet Channel: September 26, 2017



Photo 828: Basin D Outlet Channel: September 26, 2017



Photo 829: Basin D Outlet Channel: September 26, 2017



Photo 830: Basin D Outlet Channel: September 26, 2017

Appendix III

Quarterly Site Visits: Site Visit Attendees by Date of Site Visit/ Mitigation Monitoring Site Reports

UltraSystems Staff Fields of Expertise:

James Aidukas	Project Manager, Permitting and Operations/ Engineer
Mike Lindsay	Air Quality, Noise, Vehicle Emissions, Environmental Specialist/ Engineer

SLR Staff Fields of Expertise:

Tarik Hadj-Hamou	Geotechnical, Civil, and Landfill Design/ Engineer
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July Site Visits

July 11, 2017:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 7/11/17
Site Conditions: Sunny, 75-90°F, 0-12 MPH winds	
SITE LOG	
<p>Republic General Manager - Rob Sherman</p> <p>Drove the Granada Hills neighborhood area from 6:30 to 7:30 a.m. and there were no landfill odors detected in the adjacent neighborhood.</p> <p>Observed trash truck liquids stains on the Balboa Boulevard and Woodley Avenue intersection, where there was a slight trash odor. Drove to the greenwaste facilities on Blucher Avenue. No odors were detected leaving the facility. Drove to the I-5 overpass on San Fernando Road. There was an increase in the amount of illegal dumping on the road's shoulder. DWP had a crew with a front loader and dump truck removing the rock, rubble, and dirt that was blocking their entrance gate. This area is outside of Republic's clean-up area.</p> <p>Met with Mike Lindsay (UltraSystems) and signed in at the office. We had a brief conversation with Rob Sherman and Patti Costa, met with Vu Truong and Gladys Gallardo (LACDPW) and proceeded to monitor the site with the County staff joining us and observed the following:</p> <ul style="list-style-type: none"> • The majority of the slide material from the slope in CC-4 Part 2 was removed. Wet areas and flowing water was observed on the slope coming from prior controlled seeps. HDPE piping had been cut. • Cell CC-4 Part 1 was the only active area accepting waste. • The soil stockpile adjacent to the CC-3A west-facing slope was being removed. • Closure turf was being installed on CC-3A and CC-3B south-facing slopes above the main access road. • The depression on the Old City Landfill south of the landfill office appears to have had additional settlement and landfill top soil movement. • The terminal basin was cleared of sediment and was dry. The installation of a skimmer system on the outlet risers had not yet started. • Water into the terminal basin was blocked by a dirt berm at the entrance of the basin and water was ponding. The pump at the dirt berm was not being used. Mosquito breeding is a concern. • Sierra Highway near the I-14 overpass had two dump truck loads of concrete and rubble dumped on the road's shoulder and full trash bags and debris were observed in the adjacent slope. Wind-blown litter was observed under the I-14 overpass. • The Foothill's Soils Inc. facility had no odor detected offsite on Coltrane Avenue. • The potable water supply leak in the pressure control valve was repaired. All potable water piping leaks in the gray water handling area were repaired. • The rubber mats were being used at the sewer lift pump and there were no odors detected. • The removal of soils and repair of the fence and wall drainage system had not yet started. 	

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- The San Fernando Road retaining wall had additional soils slough down onto the wall fence.
- The oak tree adjacent to the San Fernando Road retaining wall had the branches trimmed to eliminate contact with the Verizon communication cable on the DWP poles.
- A City truck was observed leaking liquids while parked at the exit acceleration lane.
- The CC-3B basin was cleared of sediment and debris. Inlet water flow areas were HDPE lined. The low flow outlet was still plugged with soil and debris. The concrete outlet dirt slopes had deep soil erosion rills that were not yet repaired.
- A corrugated steel drainage channel was constructed on an Old City South landfill slope. No safety restrictions were seen at the top to limit accidental or attractive nuisance use as a slide.
- Falcons were being used to control birds at the waste area.
- Cell CC-4 Part 1 had three tippers in operations at 12:00 noon, with approximately 70% of the ADC covered.
- Basin B was cleared of sediment. The back native hillside had wind-blown litter in the vegetation. The outlet riser area had pockets of standing water, a mosquito concern.
- The condensate liquid storage totes in the Flare 9 and 10 blower area were capped and no odors were detected.
- Basin A was cleared of sediment and slopes that previously sloughed soil into the basin were repaired. Trash was observed in the back native area of the basin.

Flare Operating Conditions:

- Flare 1 - not monitored
- Flare 3 - shut down
- Flare 9 - shut down
- Flare 10 - 1645°F, 5047 SCFM, -61.78" vacuum, 35.35" out

The gas-to-energy plant was using 8941 SCFM of recovered landfill gas, 47.0% CH₄, 1.8% O₂, 55ppm H₂S. The facility was at 100% production.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 07-11-2017 Tuesday
Site Conditions: Clear, 74–91 °F, 3–12 mph, 56% RH	
SITE LOG	
<ol style="list-style-type: none"> 1. No odors are present at the greenwaste facilities on Blucher Avenue. 2. San Fernando Road has new trash, dirt and debris illegally dumped on shoulders near I-5 overpass. 3. A DWP work crew is removing piles of dirt that is blocking the gated entrance to their power facility on San Fernando Road, using a frontend loader and dump truck. 4. Met with Jim Aidukas (UltraSystems), and checked into office and with Rob Sherman and Patti Costa (Republic). 5. Met with Vu Truong and Gladys Gallardo (LACDPW). 6. Terminal basin is completely clear of sediment. Vertical riser drains are ready to be cleaned and have the new skimmer system installed. 7. No odors are present at the Foothill soils facility on Coltrane Avenue. 8. Traffic spotters are onsite to control traffic. 9. Sierra Highway has some dumped trash bags and liter by the I-14 overpass. 10. Tree limbs have been trimmed from communication lines by the landfill entrance. 11. No odors are present at the sewer lift station by landfill entrance. 12. Drainage pipe inlet at final toe berm is blocked by soil. 13. Installation of new closure turf continues along haul road City slopes. 14. Bird abatement is in force, including falconer with four falcons. 15. Cell CC-3A and CC-3B are in good order. 16. Working area at Cell CC-4 Part 1 is in good order, including three tippers in operation. ADC is 65% covered by new trash at 11:50 am. 17. Water trucks are applying water throughout site for dust control. 18. Sediment basin B is clear of sediment. 19. Sediment basin B has some trash and debris at the back of basin. 20. Flare 9 is offline. 21. Flare 10 is operating at 5017 scfm, 1660 °F. Gas sample measured at 47 % Vol. CH₄, 1.8 % Vol. O₂, 55 ppm H₂S and over 500 ppm CO. Blowers 2, 3 and 4 are in operation. 22. Sediment basin A is in good order, with some windblown trash and debris along the northwest slope. 23. Observed recontouring of the landslide area by Cell CC-4 Part 2. 24. A seep is draining along the west slope of Cell CC-4 Part 2. 25. Met with Ricky Dhupar (Republic) and Jennifer Baker (Bel Environmental Engineering), and discussed our site monitoring observations. 	

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FURTHER REVIEW NEEDED

1. Remove trash and debris along San Fernando Road.
2. Remove trash and debris along Sierra Highway.
3. Clear drainage at final toe berm.
4. Remove trash at back of sediment basin B.
5. Remove trash along slopes of sediment basin A.

Signed:

Michael W. Lindsay

July 25, 2017:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 7/25/17
Site Conditions: Partly cloudy, 65-90°F, 0-10 MPH winds	
SITE LOG	
<p>Republic General Manager - Rob Sherman</p> <p>Drove the Granada Hills neighborhood area from 6:45 to 7:45 a.m. and there were no landfill odors detected in the adjacent neighborhood.</p> <p>Met with Mike Lindsay (UltraSystems) and monitored the terminal basin. The basin was clear of sediment. The outlet risers that are scheduled to be modified to add a skimmer system had no work done on them. There still was a dirt berm at the entrance to the basin blocking any water. There was water entering the basin coming from a 24" drainage pipe from the Old City Landfill and from a seep in the inlet concrete channel. The 24" drainage source could be Deck C potable irrigation water. The seep appears to be alluvial water from the alluvial cut-off wall system. The alluvial cut-off wall pumping system may not be functioning properly. Water was ponding and mosquito breeding is a concern. The access road hillside slope south of the basin's inlet had a wet section and could be a future road stability issue.</p> <p>We signed in at the office and had a brief conversation with Patti Costa and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> • All of the south-facing slopes of Cells CC-3A and CC-3B have some phase of Closure Turf being installed. • The slide material in Cell CC-4 Part 2 was removed. The seeps are not yet controlled and water was seen in the bottom of the future cell. Construction of the cell is nearing final base grade. • Cell CC-4 Part 1 was the only area accepting waste. Over 25 trucks were waiting in line at the scales at 9:02 a.m. • The soil stockpile adjacent to the CC-3A west-facing slope has had approximately 60% of the stockpile removed. • The PM-10 trees on the southern Deck C berm are doing well and have had significant growth in 2017. The trees that appeared to be dying were recovering due to the action Republic's consultant took in watering and treatment. • No understory planting has been done or scheduled for the PM-10 berm. • Deck C sage mitigation is doing well. Signs of summer die-off is occurring. • There was no sage mitigation activity occurring on Deck B or Deck A. • There were three Dust Boss misters operating on Deck C. • Placement of Closure Turf required excavation of odorous soils and trash adjacent to the main access road to uncover the edge of the in place liner for future tie-in. Odors were being controlled to be local to the work area and were not leaving the site. 	

Page 2 of 2, 7/25/17:

- Basin B was clean and dry. The outlet risers area has not had the sediment removed from the rock and risers. The back native hillside had windblown litter.
- The County sage mitigation area had no mitigation activity. The deep gullies on the slopes were not repaired, and soil erosion systems were not installed.
- Basin A is clean and dry. The outlet risers area has not had sediment removed from the rock or risers.

Flare Operating Conditions:

- Flare 1 - 1690°F, 2620 SCFM, -57.73" vacuum
There was a gas leak detected coming from the discharge flange on the operating blower (not BL-104.)
- Flare 3 - shut down
- Flare 9 - 1673°F, 3284 SCFM
- Flare 10 - 1642°F, 3245 SCFM, -62.9" vacuum, 38.35" out

The gas-to-energy plant was using 9364 SCFM of recovered landfill gas, 47.0% CH₄, 1.9% O₂, 60 ppm H₂S. The facility was at 100% production. The total gas volume recovered was 18,513 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 07-25-2017 Tuesday
Site Conditions: Cloudy, 66–89 °F, 3–9 mph, 74% RH	
SITE LOG	
<ol style="list-style-type: none"> 1. Met with Jim Aidukas (UltraSystems). 2. Terminal basin is completely clear of sediment. 3. Standing water is present at terminal basin inlet channel. Source of water includes 1) 24-inch drain pipe coming down from City Deck C area, at approximately 20 gallons per minute; and 2) a seep draining out of a concrete floor seam east of the final berm. 4. Checked into office and with Patti Costa (Republic). 5. City Deck C sage mitigation area is in excellent condition, with significant ingrowth of various species, especially salt bush. 6. Oak trees at the PM-10 berm are growing well. 7. Flare 1 is operating at 2620 scfm, 1685 °F. Gas sample measured at 38 % Vol. CH₄, 2.8 % Vol. O₂, 95 ppm H₂S and 66 ppm CO. Gas inlet temperature is at 120 °F. 8. Observed overall landfill operations from water tank area, including grading at Cell CC-4 Part 2. 9. Water trucks are applying water throughout site for dust control. 10. City Deck B is growing well in areas with vegetation. 11. Traffic spotters are onsite to control traffic. 12. Observed installation of new closure turf on City slopes along haul road. 13. Cell CC-3A is in good order, with new gas collection pipe being installed. ADC is 70% covered by new trash at 10:35 am. 14. Observed liquid shooting five to ten feet into the air above gas well GW2004, and we notified Republic operations. 15. Flare 9 is operating at 3415 scfm, 1676 °F. Gas sample measured at 47 % Vol. CH₄, 1.9 % Vol. O₂, 60 ppm H₂S and over 500 ppm CO. Blowers 2, 3 and 4 are in operation. 16. Flare 10 is operating at 3398 scfm, 1663 °F. 17. Gas-to-energy plant is operating at full capacity. 18. Storage yard is in good order. 19. Sediment basin D is clear and in good order. 20. County sage mitigation slopes have worsening water erosion ruts, especially at bottom area. 21. Street sweepers are cleaning the haul roads. 22. Met with Patti Costa and Ricky Dhupar (Republic), and discussed our site monitoring observations. 	

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FURTHER REVIEW NEEDED	
<ol style="list-style-type: none">1. Remove standing water at terminal basin inlet channel.2. Repair liquid leakage at gas well GW2004.3. Repair erosion ruts at County sage mitigation slopes.	
Signed:	<i>Michael W. Lindsay</i>

August Site Visits

August 14, 2017:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 8/14/17
Site Conditions: Partly cloudy, 65-90°F, 0-15 MPH winds	
SITE LOG	
<p>Republic General Manager - Rob Sherman</p> <p>Drove the Granada Hills neighborhood area from 6:45 to 7:45 a.m. and there were no landfill odors detected in the adjacent neighborhood. At 8:00 a.m. observed liquid trails on the Balboa roadway near Woodley Avenue. They appear to be from City packer trucks, possible from prior days. San Fernando Road near the I-5 overpass had the illegally dumped soil and rock and rubble cleaned up by the DWP operation's personnel. Numerous tires were dumped under the overpass behind the fence. Illegal dumping of furniture and debris was observed along the shoulder of the road in this general area.</p> <p>Met with Mike Lindsay (UltraSystems) and monitored the terminal basin. The basin was clear of sediment. Water into the basin was blocked by a dirt berm at the entrance. The irrigation leak was fixed and no water was coming into the basin from the 24" drainage pipe. The access road hillside slope was also dry. There is still seep water in the inlet channel and on the basin floor. The seep appears to be alluvial water from the alluvial cut-off wall system. The alluvial cut-off wall pumping system may not be functioning properly. Water was ponding and mosquito breeding is a concern. No work was done on the outlet risers to install a skimmer system.</p> <p>Met with Gladys Gallardo (LACDPW) and signed in at the office. We had a brief conversation with Patti Costa and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> • City trucks were waiting at the scales at 8:50 a.m. • The stockpiled soil in Cell CC-3A was approximately 60% removed. • Cell CC-4 Part 1 was the active fill area. • Cell CC-4 Part 2 base HDPE liner was completed. A sand layer was being placed on the HDPE liner. • The slope adjacent to Cell CC-4 Part 2 that had a landslide was repaired and slide material removed. Slope seeps and springs were captured and piped to the water recovery system piping. • Approximately 90% of the closure turf liner was in place with approximately 70% with the turf installed. • Cell CC-3A slopes had Posi-Shell installed on all sloped up to the top deck and were well-maintained. Portions of slopes of CC-3B were also covered with Posi-Shell. • The four vegetation test plots were observed with the northernmost being the most successful. Republic's biologist will make a recommendation soon. • There were four Dust Boss misters operating on the eastern portion of Deck C. • The PM-10 trees were doing well. Any beetle or fungal attack was remedied by their biologist. There was no understory planting being done. 	

Page 2 of 2, 8/14/17:

- Deck C sage mitigation was doing well. There were some areas that needed removal of invasive and non-native plants. Bobcat tracks were observed in the PM-10 tree area.
- Decks B and A native plants area need non-native plant removed.
- There was no work being done in the Deck B sage area except for stockpiling soil.
- Basin A was cleared of sediment and dry. Litter and debris was observed in the back area of the basin.
- There was windblown litter adjacent to the 36" main gas recovery header that paralleled the westside drainage channel.
- Basin D was cleared of sediment and ready for winter rains.
- Adjacent to Basin D were flat areas where tree branches, trunks, and stumps were stockpiled. Vector control and fire fuel are a concern.
- There was no activity in the County sage mitigation area.
- Flare 10 had new air control louvers installed.
- Basin B was cleared of sediment and dry. Windblown litter was observed on the far east slopes.

Flare Operating Conditions:

- Flare 1 - 1689°F, 2690 SCFM, -57.58" vacuum, 36% CH₄, 93.5 H₂S
There was a gas leak detected coming from the discharge flange on the operating blower (not BL-104.)
- Flare 3 - shut down
- Flare 9 - 1691°F, 3761 SCFM
- Flare 10 - 1661°F, 3758 SCFM, -62.9" vacuum, 39.18" out

The gas-to-energy plant was using 9402 SCFM of recovered landfill gas, 45.0% CH₄, 1.2% O₂, 93 ppm H₂S. The facility was at 100% production. The total gas volume recovered was 19,611 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 3
Discipline: Environmental Engineer	Date: 08-14-2017 Monday
Site Conditions: Cloudy, 62–84 °F, 3–16 mph, 77% RH	
SITE LOG	
<ol style="list-style-type: none"> 1. San Fernando Road has new trash bags, furniture and debris along shoulder by the I-5 overpass. 2. Met with Jim Aidukas (UltraSystems). 3. Terminal basin has standing water at inlet channel, with water coming up through concrete cracks from an underground seep. 4. New skimmer riser drains at terminal basin have not been installed yet. 5. Checked into office and with Patti Costa and Ricky Dhupar (Republic). 6. Met with Gladys Gallardo (LACDPW). 7. Water trucks are applying water throughout site for dust control. 8. Cell CC-3A is in good order, with Posi-Shell installed up to the top deck boundary. 9. Cell CC-4 Part 1 working area is in good order, with three tippers and water misters in operations. 10. Observed four vegetation test beds above admin site, with bed number four on north end having the greenest growth overall. 11. Bird abatement is in force, including falconer with four falcons. 12. Closure turf installation continues along City slopes, including a special machine that shoots sand onto the top of the green turf material. 13. Cell CC-4 Part 2 construction is progressing, with floor liner being installed with a clean soil layer. 14. City Deck C sage mitigation area is growing well, with several species of bird within the habitat. 15. Four water misters are operating above City Deck C. 16. Oak trees at the PM-10 berm are growing well, with a dark green color and new growth on most trees. 17. Wind is blowing to the north, away from the adjacent neighborhood. 18. Cougar tracks are present by City Deck C. 19. Flare 1 is operating at 2694 scfm, 1691 °F. Gas sample measured at 28 % Vol. CH₄, 1.2 % Vol. O₂, 93 ppm H₂S and 55 ppm CO. Gas inlet temperature is at 129 °F. 20. Observed overall landfill operations from water tank area, including construction at Cell CC-4 Part 2. 21. Flare 3 is offline. 22. Sediment basin A is clear and in good order. 23. Windblown trash and debris are present along the northwest slope of Sediment Basin A. 24. Traffic spotters are onsite to control traffic. 25. Storage yard is in good order. 26. A large wood pile is still present by Sediment Basin D, which could be a vector control issue. 27. Sediment basin D is clear and in good order. 28. Flare 9 is operating at 3823 scfm, 1687 °F. Gas sample measured at 45 % Vol. CH₄, 1.2 % Vol. O₂, 93 ppm H₂S and over 500 ppm CO. Blowers 2, 3 and 4 are in operation. 29. Flare 10 is operating at 3775 scfm, 1645 °F. Gas inlet temperature is at 167 °F. 30. Gas-to-energy plant is operating at full capacity. 31. Sediment basin B is clear and in good order. 	

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- 32. Street sweepers are cleaning the haul roads.
- 33. Met with Patti Costa and Ricky Dhupar (Republic), and discussed our site monitoring observations.

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FURTHER REVIEW NEEDED

1. Remove trash and debris along San Fernando Road.
2. Remove standing water at terminal basin inlet channel.
3. Remove trash along slopes of sediment basin A.
4. Remove large wood pile near sediment basin D.

Signed: *Michael W. Lindsay*

September Site Visits

September 12, 2017:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

Tarik Hadj-Hamou (SLR)



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 9/12/17
Site Conditions: Clear, 65-90°F, 5-15 MPH winds	
SITE LOG	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood area from 6:30 to 7:45 a.m. and there were no landfill odors detected in the adjacent neighborhood, nor in the Rancho Cascades neighborhood.</p> <p>Met with Mike Lindsay (UltraSystems) and Tarik Hadj-Hamou (SLR) and drove to the terminal basin.</p> <ul style="list-style-type: none"> • The inlet to the terminal basin was blocked by a dirt berm. A minor amount of water was coming from the Old City landfill hillside drainage pipe. This is most likely from the Deck C Dust Boss water supply. • The bulk of the sediment in the basin was removed. The gabion wall had all sediment removed to its base. The rock was not cleaned. The outlet risers were not cleaned. • There was no work being done on converting the outlet risers to a water skimming system. • Standing water was observed at both sides of the gabion wall and at the base of the outlet risers. Mosquito breeding could be a problem. • The seep water at the inlet channel floor and terminal basin floor observed on prior visits had stopped. This was thought to be alluvial ground water on the prior visit. • The concrete inlet channels into the terminal basin from basin CC-3B and the access road had the channel walls undermined by erosion. • A cattle guard drainage system was being installed at the landfill entrance gate with water discharge to the terminal basin outlet channel. Traffic control personnel were directing waste trucks and other vehicles. • Windblown debris was observed near the exterior basin wall facing the San Fernando Road block wall. • Soil sloughing was observed on the main access road slope facing the terminal basin. This was in the same area where a wet spot was observed in July. This slope should be watched. <p>Signed in at the landfill office, and met with Patti Costa (Republic) on setting up a post-monitoring time. Met with Vu Truong (LACDPW) and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> • LA City packer trucks were lined up at the scales at 8:45 a.m. • Stockpiled soil from Cell CC-3A was being excavated and used for operations cover. The stockpile elevation was at approximately the same as the scales access roadway. • Cell CC-4 Part 1 was the active fill area. • Cell CC-4 Part 2 liner construction continued. The back slope liner only had the bottom HDPE liner in place. • The western and top southern facing slopes and the top deck of CC-3A and the top southern facing slopes of CC-3B had Posi-Shell applied. 	

Page 2 of 2, 9/12/17:

- The lower southern facing slopes of CC-3A and CC-3B above and adjacent to the main access road had Closure Turf installed.
- The flat areas above Basin D had tree branches, trunks, stumps, and other waste material stored. Vector control and fire hazard was a concern.
- Drainage control concrete V-ditches were repaired and new V-ditches installed in the County sage mitigation area. No slope erosion repair nor sage planting occurred.
- Basin B was cleared of sediment and dry. The basin was ready for the winter rains. The far eastern native hillside vegetation had windblown litter in it.
- The Basin D outlet channel HDPE liner was lifted and had debris and tumbleweed under the leading edge which could cause total blockage in a rain event.
- Basin A was cleared of sediment and was dry. The outlet risers and rock have not been cleaned. The back portion of the basin had windblown litter.
- The San Fernando Road retaining wall and slope repair had not begun.
- Illegally dumped trash and debris were observed on Sierra Highway near the I-14 overpass.

Flare Operating Conditions:

- Flare 1 - 1691°F, 3095 SCFM, -57.91" vacuum, 38.43" out, 36% CH₄, 86 ppm H₂S
The gas leak detected coming from the discharge flange on the operating blower (not BL-104) on the 8-14 site monitoring visit was fixed.
- Flare 3 - shut down
- Flare 9 - 1690°F, 4386 SCFM
- Flare 10 - 1681°F, 4402 SCFM, -62.9" vacuum, 39.18" out

The gas-to-energy plant was using 9956 SCFM of recovered landfill gas, 42.0% CH₄, 1.3% O₂, 62 ppm H₂S, > 500 ppm CO.

The facility was at 100% production. The total gas volume being recovered was 21,840 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 09-12-2017 Tuesday
Site Conditions: Clear, 67–90 °F, 3–15 mph, 68% RH	
SITE LOG	
<ol style="list-style-type: none"> 1. No odors are present at the greenwaste facilities on Blucher Avenue at 7:40 AM. 2. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems). 3. Terminal basin is in good order, ready for the rainy season. 4. New skimmer riser drains at terminal basin have not been installed yet. 5. Observed an excavation and drainage project near the terminal basin outlet channel along main haul road at landfill entrance. 6. Wind-blown trash has accumulated on the outlet side of the terminal basin. 7. Closure turf installation continues along City slopes, including sand distribution. 8. Water trucks are applying water throughout site for dust control. 9. Checked into office and with Patti Costa (Republic). 10. Met with Vu Truong (LACDPW). 11. Cell CC-3A top deck is in good order, with soil being stockpiled. 12. Cell CC-3B is in good order. 13. Cell CC-4 Part 1 working area is operating with three tippers and water misters. 14. Traffic spotters are onsite to control traffic. 15. Cell CC-4 Part 2 construction continues, with soft soil being placed on floor liner. 16. Odor is present at sewer lift station by landfill entrance. 17. Retaining wall and slope repair has not begun. 18. Illegally dumped trash and debris are present along Sierra Highway. 19. No odors are present in the Rancho Cascades neighborhood. 20. No odors are present in the adjacent neighborhood or school. 21. Vegetation is growing in concrete cracks at terminal basin top wall and exterior wall. 22. Drainage is still blocked at final berm channel. 23. Street sweepers are cleaning the haul roads. 24. Flare 1 is operating at 3114 scfm, 1686 °F. Gas sample measured at 34 % Vol. CH₄, 1.7 % Vol. O₂, 86 ppm H₂S and 78 ppm CO. Gas inlet temperature is at 151 °F. 25. Observed overall landfill operations from observation deck, including construction at Cell CC-4 Part 2 and closure turf on City slopes. 26. Flare 9 is operating at 4407 scfm, 1694 °F. Gas sample measured at 42 % Vol. CH₄, 1.3 % Vol. O₂, 62 ppm H₂S and over 500 ppm CO. Blowers 1, 2, 3 and 4 are in operation. 27. Flare 10 is operating at 4374 scfm, 1622 °F. Gas inlet temperature is at 166 °F. 28. Sediment basin B is clear and ready for the rainy season. 29. Windblown trash and debris are present along the north slope of Sediment Basin B. 30. Sediment basin A is clear and in good order. 31. Met with Patti Costa and Ricky Dhupar (Republic), and discussed our site monitoring observations. 	

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FURTHER REVIEW NEEDED

1. Remove wind-blown trash at outlet of terminal basin.
2. Eliminate odor at sewer lift station.
3. Remove trash and debris along San Fernando Road.
4. Remove vegetation growing in concrete cracks at terminal basin.
5. Clear soil in drainage channel and vertical drain at final berm.
6. Remove wind-blown trash at back of sediment basin B.

Signed: *Michael W. Lindsay*




SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 7
Discipline: Civil – Geotechnical and Hydrology	Date: September 12, 2017
Site Conditions: Sunny and warm	
SITE LOG	
7:00 Met with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill, 8:10: Sign-up in main office.	
7:15 – 8:00 inspect Terminal Basin	
<ul style="list-style-type: none"> • basin is cleaned, most of sediments have been removed except what is trapped behind the 3 intake towers (Photo 1) • some water remained trapped behind the gabions separator (Photo 2) • some vegetation is growing on gabion but also on interior wall through the cracks and should be removed (Photo 2) 	
8:15- 1:30 Met Vu Truong of LADPW and conduct visit. Observed the following:	
<ul style="list-style-type: none"> • Neighborhood for odors (not discussed herein as not this inspector purview) • Placement of waste in Cell CC4 Phase 1 • Erosion protection system • Drainage systems (Basins, channels) • Access Roads • Closure Turf on slopes of Cell CC3 • Placement of liner system in Cell CC4 – Phase 2 • Landfill for geotechnical and hydrological issues 	
Waste Placement in Cell CC4 Phase 1	
<ul style="list-style-type: none"> • Cell was accepting waste (Photo 3) • 2 Tilters were in use • Alternative cover was used as shown on northeast corner of waste mass in the cell 	
Erosion Protection	
<ul style="list-style-type: none"> • All systems installed at site are in good shape • Posi shell applied to the slopes of Cell CC3 is holding out. we did not notice any new cracks in areas monitored on June 20, 2017 	
Drainage system	
<ul style="list-style-type: none"> • New temporary unlined earthen basin above Terminal basin <ul style="list-style-type: none"> – Basin is partially excavated and the spillway was cleared. Inlet of intake tower was covered by vegetation and not covered with a safety grill (Photo 4) – On downstream side we noted erosion gullies on earth fill between channels (Photo 5). – Severe erosion along the walls of the shotcrete channel (Photo 6) More pronounce on the channel connected to the spillway of the basin • Terminal Basin <ul style="list-style-type: none"> – See comments above • Basin A <ul style="list-style-type: none"> – Sediments accumulated in basin have been removed 	

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<ul style="list-style-type: none"> • Basin D <ul style="list-style-type: none"> – Clean • Basin B <ul style="list-style-type: none"> – Clean • Channel between Basin D and access road to Flare 9 and 10. <ul style="list-style-type: none"> – The geomembrane installed in the channel is totally loose at the connections with the corrugated pipe.(Photo 7)
<p style="text-align: center;">Access roads.</p> <ul style="list-style-type: none"> • Main access roads <ul style="list-style-type: none"> ○ Some sloughing has occurred on the embankment of the new access road (Photo 8) near the Apex of the road. The sloughing can be noted from the entrance to the Terminal Basin. ○ there are other smaller areas along the embankment • Did not inspect the other access roads to landfill
<p style="text-align: center;">Closure Turf on slopes of CC3:</p> <ul style="list-style-type: none"> • The slopes of cell CC3 were covered with Closure Turf manufactured by Watershed Geo. Closure turf terminate at a concrete block wall installed to facilitate future connection with the existing liner (Photo 9) • It is our understanding that a horizontal gas collection system was installed under the Closure Turf as well as relief valves to prevent uplift of the Closure Turf in case of landfill gas accumulation • Existing gas recovery wells have been extended through Closure Turf
<p style="text-align: center;">Placement of liner system in cell CC4 Phase 2:</p> <ul style="list-style-type: none"> • At time of visit, the last layer (protective soil cover) was being placed on bottom of the cell (Photo 10).
<p style="text-align: center;">Retaining wall on San Fernando Road:</p> <ul style="list-style-type: none"> • It was confirmed that work will take place in October and subcontractors have been identified
<p style="text-align: center;">Overall landfill inspection.</p> <ul style="list-style-type: none"> • no other geotechnical issues than that noted at access road were observed
1:45-2:15 Close-out meeting with Republic Staff representative to discuss findings of visit
FURTHER REVIEW NEEDED
None
COMMENTS
Sloughing on embankment of access road should be inspected by Republic geotechnical engineer prior to rainy season and addressed as needed
<p style="text-align: center;">Signed:</p> 

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Photo 1: Sediments behind decant towers at Terminal Basin



Photo 2: Water behind gabion wall and vegetation growing in Terminal Basin

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Photo 3: Filling activities in Cell CC4 – Phase 1



Photo 4: Intake of drain pipe of temporary earthen basin above Terminal Basin

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Photo 5: Erosion gullies at temporary earthen basin above Terminal Basin



Photo 6: Erosion along shotcrete wall of channels at temporary earthen basin above Terminal Basin

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Photo 7: Geomembrane at channel between Basin B and D



Photo 8: Sloughing on embankment of new access road



Photo 9: Closure turf on slope of cell CC3 and concrete block retaining wall



Photo 10: Construction in cell CC4 – Phase 2

September 26, 2017:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 9/26/17
Site Conditions: Clear, 70-90°F, 5-20 MPH winds	
SITE LOG	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood area from 6:30 to 7:30 a.m. and there were no landfill odors detected in the adjacent neighborhood. The slow lane on Balboa Boulevard at Woodley Avenue had liquid stain marks that appear to be leaking from packer trucks. There was a slight garbage odor when one is right next to the stain.</p> <p>Met with Mike Lindsay (UltraSystems) and drove to the terminal basin.</p> <ul style="list-style-type: none"> • The terminal basin was cleared of sediment. • The outlet risers were cleaned and sediment was removed. New corrugated steel pipe was in the basin for modifying the outlets to a skimmer system. No modification had started. • Water was seeping into the basin from a northern wall. • Standing water was observed on both sides of the gabion rock wall. Mosquito breeding could be a problem. • The inlet dirt berm was removed. • The concrete inlet channels into the terminal basin from basin CC-3B and the main access road had the dirt slopes' erosion repaired. • Soil sloughing on the main access road slope facing the terminal basin had more movement. The cause of the slope's movement should be investigated. • The wind meter was removed at the terminal basin. • Windblown debris was observed near the terminal basin's exterior wall facing the San Fernando Road block wall. <p>Signed in at the landfill office, checked in with Patti Costa (Republic), and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> • The cattle guard drainage system at the landfill entrance gate is still under construction with precast drainage boxes being lowered in place. Traffic control personnel were directing traffic. • Sierra Highway near the I-14 had windblown litter. Just north of the overpass was an 18-foot boat illegally dumped on the roadway shoulder. • The leachate treatment area was cleaned inside the concrete berm. The outside area and drainage was cleaned and ready for rain events. There was a burp of odorous vapors that lasted approximately five minutes. The source could not be found. • The sewer connection pump vault had localized odors. Rubber mats were not totally effected. Larger mats may help. 	

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- More soil sloughing had occurred at the San Fernando Road retaining wall. The depth of soil and rock behind the fence and soil in front of the wall has increased.
- The Closure Turf installation on the slopes above the main access road from the Cell CC-3A soil stockpile to Cell CC-3B is nearly finished with cover sand now being applied.
- A landfill liquid transfer pipeline near the west end of the CC-3A Closure Turf leaked liquids on the evening of September 25. This area was extremely odorous when observed at 11:00 a.m.
- CC-3A and CC3B top decks had some blowing dust when wind gust occurred. Wind gusted at 20 MPH.
- The Posi-Shell was observed and was performing well with no cracking or subsidence noted.
- Cell CC-4 Part 1 was the active fill area. Roadways were compacted cover material.
- Cell CC-4 Part 2 liner construction continued with work being done on the northern back slope.
- Deck C sage mitigation PM-10 trees are growing and doing well. No understory planting has occurred.
- The Deck C sage mitigation is doing well. Trimming and invasive plant removal needs to be performed to help native plants get established.
- The stockpiled top soil on Deck B for sage planting had been graded.
- The drainage V-ditch above the Flare 1 site had the slope soil sloughed away.
- Basin A is clean and dry. The outlet risers and rock sediment has not been removed.
- The County sage mitigation slope erosion rails have not been repaired and no erosion control wattles installed.
- Basin B was cleared of sediment and dry. The basin was ready for the rain.
- The Basin D outlet channel HDPE liner was lifted and debris and tumbleweed under the leading edge, which could cause total blockage in a storm.

Flare Operating Conditions:

- Flare 1 - 1684°F, 2929 SCFM, -57.71" vacuum, 36% CH₄, 62 ppm H₂S
- Flare 3 - shut down
- Flare 9 - 1702°F, 4451 SCFM
- Flare 10 - 1658°F, 4591 SCFM, -63.4" vacuum, 39.7" out

The gas-to-energy plant was using 9487 SCFM of recovered landfill gas, 45.0% CH₄, 1.2% O₂, 60 ppm H₂S, > 500 ppm CO. The facility was at 100% production. The total gas volume being recovered was 21,458 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 09-26-2017 Tuesday
Site Conditions: Clear, 68–87 °F, 6–20 mph, 16% RH	

SITE LOG

1. Met with Jim Aidukas (UltraSystems).
2. Terminal basin has standing water on inlet side of center gabion wall.
3. Riser drains at terminal basin are being prepared for new skimmer system installation, including three large preassembled drain pipes.
4. Drainage system below final berm is in good condition.
5. Checked into office and with Patti Costa (Republic).
6. New drainage system near landfill entrance is still in construction, with precast concrete and steel blocks being lowered into place with a crane.
7. Sierra Highway has an abandoned 18-foot ski boat along shoulder.
8. Water trucks are applying water throughout site for dust control.
9. Soil continues to impact the retaining wall by landfill entrance.
10. A localized, fleeting and distinct condensate odor is present at the condensate treatment facility.
11. Cell CC-3A top deck is in good order, with winds gusting up to 20 mph. The stockpile of sand has increased.
12. Cell CC-3B is in good order.
13. Cell CC-4 Part 1 working area is operating with three tippers and water misters, with ADC 80% covered with new trash at 11:20 AM.
14. City Deck C sage mitigation area is in good condition, with several species of birds flying through habitat.
15. Four water misters are in operation above City Deck C.
16. Flare 1 is operating at 2917 scfm, 1677 °F. Gas sample measured at 36 % Vol. CH₄, 1.2 % Vol. O₂, 92 ppm H₂S and 61 ppm CO. Gas inlet temperature is at 132 °F.
17. Closure turf installation along City slopes is almost complete, with crews distributing sand onto its surface.
18. A speeding water truck and a utility truck passed us by at about 30 to 35 mph (speed limit is 15 mph).
19. Sediment basin A has wind-blown trash along north slope and at back of basin.
20. Westside drainage channel has been repaired with concrete shoring at down V-ditch on County slope.
21. A large woodpile is still present near sediment basin D.
22. Sediment basin D drainage channel still has uplifted cover material partially blocking the outlet.
23. Flare 9 is operating at 4423 scfm, 1698 °F. Gas sample measured at 45 % Vol. CH₄, 1.2 % Vol. O₂, 60 ppm H₂S and over 500 ppm CO. Blowers 1, 2, 3 and 4 are in operation.
24. Flare 10 is operating at 4587 scfm, 1650 °F. Gas inlet temperature is at 160 °F.
25. Sediment basin B has wind-blown trash along north slope at back of basin.
26. Traffic spotters are onsite to control traffic.
27. Street sweepers are cleaning the haul roads.

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28. Met with Patti Costa and Ricky Dhupar (Republic), and discussed our site monitoring observations.

FURTHER REVIEW NEEDED

1. Remove standing water in terminal basin.
2. Remove abandoned boat along Sierra Highway.
3. Repair retaining wall and slope at landfill entrance.
4. Enforce 15 mph speed limit within landfill.
5. Remove wind-blown trash at back of sediment basin A.
6. Remove large woodpile by sediment basin D.
7. Clear sediment basin D drainage channel of liner material.
8. Remove wind-blown trash at back of sediment basin B.

Signed: *Michael W. Lindsay*

Appendix IV

Meeting Logs


**Sunshine Canyon Landfill
Meeting Log for July 2017 Site Monitoring**

July 11, 2017

Post-monitoring meeting with Patti Costa, Ricky Dhupar (Republic) and Jennifer Baker (Bel Environmental Engineering).

Attendees:

Vu Truong, LACDPW
Gladys Gallardo, LACDPW
James Aidukas, UltraSystems
Mike Lindsay, UltraSystems



Discussion:

We had a post-monitoring meeting with Republic Services and provided them with our monitoring observations. We asked questions regarding site activities and mitigation status, and received comments and updates as follows:

- a. James Aidukas stated that localized odors were detected by gas well GW7041, located on the Cell CC-3A west-facing slope.
 - o Jennifer Baker stated that well GW7041 is a remote well under current evaluation for decommissioning.
- b. James Aidukas stated that there were no strong odors detected at the Foothill soils facility on Coltrane Avenue on this site monitoring visit, although Rob Sherman (Republic) said that he thought he detected odors from the facility recently.
 - o Patti Costa acknowledged the statement.
- c. James Aidukas stated that there was a significant amount of broken concrete, rock and rubble dumped on the Sierra Highway road shoulder near the I-14 overpass. Also there were trash-filled bags and debris in the same area.
 - o Patti Costa acknowledged the statement and said that the operations clean-up crew would be notified.
- d. James Aidukas stated that there were no odors detected at the greenwaste facilities along Blucher Avenue.
 - o Patti Costa acknowledged the statement.
- e. James Aidukas stated that we drove to the I-5 overpass on San Fernando Road and there was an increase in the amount of illegal dumping on the road's shoulder. Also DWP had a crew with a front loader and dump truck removing the rock, rubble, and dirt that was blocking their entrance gate. Even though this area is outside of Republic's clean-up area, Republic could report this to the City's 311 clean-up service.
 - o Patti Costa acknowledged the statement.
- f. James Aidukas asked what the schedule was for installing new risers and a skimmer system in the terminal basin.
 - o Patti Costa stated that installation will begin in August and will be completed by October 1, 2017.

- g. James Aidukas stated that water coming into the terminal basin was blocked by a dirt berm at the entrance of the basin and water was ponding at the berm. The pump at the berm was not operating. Mosquito breeding is a concern.
 - Patti Costa stated that the water was due to a power failure to the water pumps, and that the water will be pumped out soon.
- h. James Aidukas asked what the status was on removing soils and repairing the retaining wall drainage system on the San Fernando Road wall.
 - Patti Costa stated that the project is going out to bid soon, including a nesting bird survey, and that the work will begin immediately after the contract award.
- i. Vu Truong asked when LACDPW will receive the geologic and geotechnical analysis reports regarding the retaining wall and slope repair.
 - Patti Costa stated that this is a maintenance item, that it is in the City's jurisdiction and not on the County side, and that Republic will supply LACDPW a report when the maintenance and repairs have been completed.
- j. James Aidukas stated that we observed that the CC-3B basin was cleared of sediment and debris. However, the low flow outlet was still plugged with sediment and debris and will not drain in the current condition.
 - Patti Costa stated that the drain will be cleaned by October 1.
- k. James Aidukas asked about the seeps near Cell CC-4 Part 2.
 - Patti Costa stated that the hydraugers still need to be connected to the drainage system.
- l. James Aidukas stated that heavy scrapers were using the roadway above the seeps and landslide area, and asked if the roadway is being checked for stability and safety.
 - Patti Costa stated the geologist knows about the roadway usage and is checking for any concerns on a daily basis.
- m. Vu Truong asked when the landslide repair was completed.
 - Patti Costa stated that it was completed on July 7th.


The meeting was then adjourned.

July 25, 2017

Post-monitoring meeting with Patti Costa and Ricky Dhupar (Republic).

Attendees:

James Aidukas, UltraSystems
Mike Lindsay, UltraSystems



Discussion:

We had a post-monitoring meeting with Republic Services and provided them with our monitoring observations. We asked questions regarding site activities and mitigation status, and received comments and updates as follows:

- a. James Aidukas stated that the gas being recovered from the landfill totaled 18,513 SCFM. The gas-to-energy plant was using 9364 SCFM. Over 50% of the recovered gas is being flared.
 - Patti Costa stated that the new Flare 11 will be installed in late August or early September. Any use of the gas being flared in an expanded or new gas-to-energy facility is being investigated by Republic's corporate gas department.
- b. James Aidukas stated that gas well GW2004 had liquid streaming out of the top of the well.
 - Ricky Dhupar stated that after UltraSystems reported the failure, BAS repaired the well immediately.
- c. James Aidukas stated that odors were present along the roadway that leads up to Cell CC-3A, near the new cell excavation.
 - Patti Costa stated that they will investigate the odor source and make sure that all proper odor control protocols are being used.
- d. James Aidukas stated that there was water entering the terminal basin coming from a 24" drainage pipe from the Old City Landfill and from a seep in the inlet concrete channel. The 24" drainage source could be Deck C potable irrigation water. The seep appears to be alluvial water from the alluvial cut-off wall system.
 - Patti Costa stated that they will check the alluvial pump system for any operational problems, and the Deck C irrigation system for a waterline leak.
- e. James Aidukas asked when the new skimmer system will be installed in the terminal basin.
 - Patti Costa stated that the project is out for bid, and that installation will be completed by the end of August.
 - Patti Costa also stated that the retaining wall repair and cattle guard installation at the entrance is out to bid.
- f. James Aidukas stated that the gas-to-energy plant personnel stated that their facility experienced a shutdown yesterday due to a gas collection line being damaged.
 - Patti Costa stated that the damage was due to a construction-related error. The system was repaired quickly.
- g. James Aidukas stated that the PM-10 berm oak trees are looking good.
 - Patti Costa acknowledged the statement.
- h. Mike Lindsay stated that the City Deck C vegetation has grown in well this season.
 - Patti Costa acknowledged the statement.

- i. James Aidukas asked about the closure turf and Posi-Shell projects.
 - o Patti Costa stated that they will both be completed by August 31, per the SCAQM abatement order.

The meeting was then adjourned.

**Sunshine Canyon Landfill
Meeting Log for August 2017 Site Monitoring**

August 11, 2017

Post-monitoring meeting with Patti Costa and Ricky Dhupar (Republic).

Attendees:

Gladys Gallardo, LACDPW
James Aidukas, UltraSystems
Mike Lindsay, UltraSystems



Discussion:

We had a post-monitoring meeting with Republic Services and provided them with our monitoring observations. We asked questions regarding site activities and mitigation status, and received comments and updates as follows:

- a. James Aidukas stated that liquid stains were observed on Balboa near Woodley that appeared to be from packer trucks leaking liquids. A localized odor was detected when very close to the stains. There were no odors detected in the adjacent neighborhood from 6:45 - 745 a.m. this morning.
 - o Patti Costa acknowledged the statement.
- b. Gladys Gallardo stated that there were no odors detected by her in the adjacent neighborhood at 8:30 AM this morning.
 - o Patti Costa acknowledged the statement.
- c. James Aidukas stated that the northernmost gas blower at the Flare 1 skid has a gas leak at the blower discharge flange.
 - o Ricky Dhupar stated that they will have the blower skid checked for gas leaks.
- d. James Aidukas stated that the volume of landfill gas being recovered totaled 19,600 SCFM today.
 - o Patti Costa acknowledged the statement.
- e. James Aidukas asked what the status was of the installation of Flare 11.
 - o Patti Costa stated that she anticipates the construction will be completed by the end of October.
- f. James Aidukas asked what the schedule is for the maintenance work on the San Fernando Road retaining wall, slope repair, and the tree removal.
 - o Patti Costa stated that Sukut Construction was awarded the contract, and that the work is scheduled to be completed by the end of October. The start of work is predicated on getting a biological bird report clearance, an oak tree removal permit, and a LADOT lane closure permit.
- g. James Aidukas asked when the terminal basin outlet riser's water skimmer drainage system will be installed.
 - o Patti Costa stated that construction should be completed by October.
- h. James Aidukas stated that it appears that alluvial water is seeping up through the concrete floor in the terminal basin inlet channel and the terminal basin floor.

- Patti Costa stated that they are performing maintenance and cleaning of the alluvial water removal system and pumps.
- i. James Aidukas stated that we observed that the oil pumping jacks south of the landfill are all offline due to an apparent DWP power outage. He asked if the landfill lost power.
 - Patti Costa stated that the landfill operations were not affected by any DWP power outage.
- j. James Aidukas stated that San Fernando Road near the I-5 overpass has trash and debris dumped on the side of the road, as well as tires dumped illegally behind the overpass fencing. The dirt, rock and rubble previously observed dumped on the road's shoulder was cleaned up by a DWP crew using a backhoe and dump truck. This area is outside Republic's clean up area.
 - Patti Costa acknowledged the statement.
- k. Mike Lindsay stated wind-blown trash is present at the back of Sediment Basin A.
 - Patti Costa stated that they will look into it.
- l. James Aidukas stated that wind-blown trash was observed against the 36" gas recovery header below the County sage mitigation slopes.
 - Patti Costa acknowledged the statement and stated that they will have the litter removed.
- m. James Aidukas stated that dust clouds were observed coming from heavy equipment moving on the haul roads by Cell CC-4 Part 2. The watering of the roads was not frequent enough. The use of soil sealant should be considered.
 - Patti Costa stated that they will make sure there are enough water trucks.
- n. James Aidukas stated that the new City packer trucks with the bright yellow striped covers do not leak liquids out of the back of the trucks. However, the older packer trucks do have rear seal problems and leak waste liquids on the roadways.
 - Patti Costa acknowledged the statement.
- o. Mike Lindsay stated that the fourth, most northern vegetation test bed by the administration buildings appears to be the most successful in growing test vegetation.
 - Patti Costa acknowledged the statement.
- p. James Aidukas stated that we observed that the irrigation water leak that was draining water into the terminal basin by a 24" HDPE drainpipe was stopped.
 - Patti Costa stated that it was the water misters above City Deck C that were causing the problem.

The meeting was then adjourned.


**Sunshine Canyon Landfill
Meeting Log for September 2017 Site Monitoring**

September 12, 2017

Post-monitoring meeting with Patti Costa and Ricky Dhupar (Republic).

Attendees:

Vu Truong, LACDPW
James Aidukas, UltraSystems
Tarik Hadj-Hamou, UltraSystems
Mike Lindsay, UltraSystems



Discussion:

We had a post-monitoring meeting with Republic Services and provided them with our monitoring observations. We asked questions regarding site activities and mitigation status, and received comments and updates as follows:

- a. Tarik Hadj-Hamou stated that the sediment basin D outlet channel has a HDPE liner placed over the concrete drainage channel and the leading edge was lifted, torn, and had debris under it. The reason for this liner is not known, but if needed it needs to be replaced.
 - Patti Costa stated that they will assess the condition of the channel, and have either the channel repaired or the liner replaced.
- b. Tarik Hadj-Hamou stated that the main access road slope facing the terminal basin entrance has sloughing soil, and suggested that the reason for the soil movement be investigated.
 - Patti Costa acknowledged the statement.
- c. James Aidukas stated that the Cell CC-3B sediment basin drain is blocked with soil and debris.
 - Patti Costa acknowledged the statement, and stated it will be cleaned before October 15th.
- d. James Aidukas stated that the concrete inlet channels into the terminal basin from Basin CC-3B and the access road had the channel walls undermined by erosion.
 - Patti Costa acknowledged the statement, and stated they will investigate the conditions and make appropriate repairs..
- e. James Aidukas asked about the drainage construction project near the landfill entrance.
 - Patti Costa stated that it is a cattle guard drainage system that will control surface water and discharge the rainwater to the terminal basin outlet channel.
- f. James Aidukas stated that the alluvial water monitoring well on the terminal basin access walkway was showing a high water level.
 - Patti Costa stated that they will check into it.
- g. James Aidukas stated that no odors were detected in adjacent neighborhood nor the school area.
 - Patti Costa acknowledged the statement.
- h. James Aidukas stated that Sierra Highway had wind-blown trash along roadway near the I-14 overpass.

- Ricky Dhupar stated that they will notify the clean-up staff.
- i. James Aidukas stated that no odors were detected in the Rancho Cascades neighborhood.
 - Patti Costa acknowledged the statement.
- j. James Aidukas stated that gas odors were detected coming from Cell CC-3B slopes when looking down from the CC-3A top deck at Cell CC-3B.
 - Patti Costa stated that they will check the wells in that area.
- k. James Aidukas stated that Flares 9 and 10 had unusually high heat haze above their stack exhaust, and that the flare's louvers were closed.
 - Patti Costa acknowledged the statement, and stated that SCS will be given our comments.
- l. James Aidukas asked if Flare 3 was operating.
 - Patti Costa stated that it has been operating recently. Ricky Dhupar stated that it was offline today.
- m. James Aidukas asked when Cell CC-4 Part 2 construction will be completed.
 - Patti Costa stated that construction will be completed by October 1, 2017.
- n. James Aidukas asked when the CC-4 Part 3 buttress construction will begin.
 - Patti Costa stated that the buttress plans are now under review by the County and, once approved, it will be scheduled. It is now estimated that it will start next year.
- o. James Aidukas stated that the large woodpile stored near sediment basin D could be a vector problem.
 - Patti Costa stated that they will look at the schedule for removing it.
- p. Mike Lindsay stated that wind-blown trash and debris is accumulating along the 36-inch header pipe below the County sage mitigation slopes.
 - Patti Costa acknowledged the statement and stated that operations personnel will be notified.
- q. Mike Lindsay stated that localized odors were present at the sewer lift station.
 - Patti Costa acknowledged the statement and stated they will investigate the condition.
- r. Mike Lindsay stated that vegetation is growing in concrete cracks on the terminal basin top walkway and exterior wall.
 - Ricky Dhupar stated that they will have it removed.
- s. Vu Truong asked what the status was for the San Fernando Road retaining wall repair.
 - Patti Costa stated that they were waiting for permits and a bird survey to be completed, then a construction schedule will be set. They are planning on beginning work within the month.
- t. Vu Truong asked if the downchute at the haul road slope was temporary or permanent.
 - Patti Costa stated that it will be removed after the westside drainage is put in place, in about 2021.
- u. James Aidukas stated that vehicles and trucks were observed driving recklessly and with excessive speed near the landfill entrance.

- Patti Costa stated that they will make sure to enforce the 15 MPH speed limit.


The meeting was then adjourned.

September 26, 2017

Post-monitoring meeting with Patti Costa and Ricky Dhupar (Republic).

Attendees:

James Aidukas, UltraSystems
Mike Lindsay, UltraSystems



Discussion:

We had a post-monitoring meeting with Republic Services and provided them with our monitoring observations. We asked questions regarding site activities and mitigation status, and received comments and updates as follows:

- a. James Aidukas stated that there was a condensate odor detected at the leachate treatment facility that was strong and lasted for approximately five minutes, and did not reoccur.
 - Patti Costa stated that they will investigate the source.
- b. James Aidukas stated that there was a strong odor coming from the Cell CC-3A slope near the soil stockpile area near the start of the Closure Turf.
 - Patti Costa stated that they had a special occurrence that was caused by a liquids transfer pipeline leak on the evening of September 25th. They are preparing procedures and protocols that will be implemented to prevent the cause of this occurrence.
- c. James Aidukas stated that an 18-foot ski boat was illegally dumped on the shoulder of Sierra Highway, just north of the I-14 overpass.
 - Patti Costa acknowledged the statement and stated they have the operation personnel investigate and handle its removal.
- d. James Aidukas stated that the landfill is recovering a total of about 21,458 SCFM of gas today.
 - Patti Costa stated that they had Flare 11 built and are waiting on the construction permit to be approved.
- e. James Aidukas stated that the water level in the alluvial cutoff wall monitoring well with the manhole access on the terminal basin access walkway was checked and had a water level five feet below the walkway elevation and that it seems high.
 - Patti Costa stated that they have will have the pumps and the water level checked.
- f. James Aidukas asked if the seismograph was working properly.
 - Ricky Dhupar stated that the system was tested last week, and that they were waiting for the report to be issued.
- g. James Aidukas asked what the design function of the new drainage system was across the road at the landfill entrance.
 - Patti Costa stated that it will act as a tire shaker, and will also help keep from having rainfall overflow on to San Fernando Road.
- h. James Aidukas asked about the schedule for the retaining wall repair.

- Patti Costa stated that they were waiting for a Caltrans permit for the lane closure on San Fernando Road due to the freeway off ramp at Balboa, and that it should be issued with a week or two.
- i. James Aidukas asked when the new skimmer drainage system will be installed in the Terminal Basin.
 - Patti Costa stated that they were waiting for additional equipment and installation materials to arrive.
- j. Mike Lindsay stated that standing water was observed in the terminal basin on both sides of the gabion wall. Mosquito breeding is a concern.
 - Patti Costa stated that they will have it pumped out.
- k. Mike Lindsay stated that wind-blown debris was observed on the Terminal Basin's exterior wall facing the San Fernando Road block wall.
 - Patti Costa stated that they will have the trash removed.
- v. Mike Lindsay stated that two contractor service trucks had excessive speed within the landfill near the City CC-3A slopes.
 - Patti Costa stated that they will make sure to enforce the 15 MPH speed limit.

The meeting was then adjourned.