

**Sunshine Canyon Landfill
Independent Monitor
Quarterly Site Monitoring Status Report
January 1, 2016 – March 31, 2016**

Prepared For:

City of Los Angeles Department of City Planning

And

County of Los Angeles Department of Regional Planning



Prepared By:



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Prepared On:

May 16, 2016

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CERTIFICATION STATEMENT

May 16, 2016

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated May 16, 2016 is the First Quarterly Report for 2016, issued by UltraSystems. This report covers the monitoring period from January 1, 2016 through March 31, 2016 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

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Contents

Quarterly Status Report.....	1
Site Visits During the Quarter.....	2
Definition of Terms.....	2
Status Summary.....	2
Compliant.....	3
Non-Compliant.....	3
Further Review Needed.....	3
Summary of Requested Documents.....	17
Conclusions.....	18

Sunshine Canyon Landfill Mitigation Monitoring – 2016 First Quarter Summary/ City
(see Excel spreadsheets)

Sunshine Canyon Landfill Mitigation Monitoring – 2016 First Quarter Summary/ County
(see Excel spreadsheets)

Appendices

Appendix I – Excel Summary Further Review Needed Comments Reference I-a through I-e

Appendix II – Photo Location Map and Relevant Site Photos

Appendix III – Quarterly Site Visits

Attendees by Date and Mitigation Monitoring Site Reports

Appendix IV – Meeting Logs

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, updated the Mitigation Monitoring Summary Excel Tables for the City and County of Los Angeles noting any conditions and/or mitigation measures that need further review, and documented these areas in an appendix for that site visit date. Any issues that required immediate attention were reported to 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 Summary Tables record each site visit and frequency of monitoring of specific conditions and/or mitigation measures, by date. 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-Comment column are those action items that would improve monitoring efficiency by having reports and documents readily available. These are summarized in the Compliant with Comments section of the monthly monitoring records and the Summary of Requested Documents of the Quarterly Reports. The City and County Excel Spreadsheets record the site conditions observed during monitoring.

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 January 1, 2016 to March 31, 2016. It includes:

1. The City and County Mitigation Monitoring Summary Excel Tables for January 1, 2016 to March 31, 2016. These tables record the areas of monitoring completed and the status of being compliant during the first quarter of 2016;
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 Services staff and/or public agencies and 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 January through March 2016 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on January 7, 2016; January 27, 2016; February 24, 2016; March 9, 2016; and March 23, 2016. 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 Services (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 Mitigation Monitoring 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' four 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.

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 landfilling 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 – In early January, Cell CC-3B had three pumps draining water from the area. The recent rainstorm had caused a significant amount of soil erosion in the cell construction area. ADC was being used at the working face in Cell CC-3A and was performing as designed.

In late January, Cell CC-3B was nearing completion with the final liner soil being placed. RWQCB approved Cell CC-3B for waste placement. ADC was being used and performing well in Cell CC-3A.

In late February, erosion of the liner cushion soil caused by January's and recent rain events was being repaired. This cell has not yet had any waste placed in it. ADC was being used in the Cell CC-3A operating area and was performing well.

In early March, Cell CC-3B had minor erosion of the liner cushion soil from the recent rain event and repairs were being made. Cell CC-3A was the operating area, and ADC was being used for daily cover and was performing as designed.

On March 22nd, the first lift of trash was placed in Cell CC-3B. ADC was used for the daily cover. This area was not used for disposal on March 23rd because of high winds. The ADC used on March 22nd performed well under high wind conditions. Two operating areas are being used: Cell CC-3A for the transfer and other large trucks, and Cell CC-3B for packer and other small trucks.

Grading was in progress for the new Edison high voltage power line that will be relocated around the inside of the County portion of Sunshine Canyon. Pads and access roads were being constructed on the north and west sides of the canyon.

Q-B.2.d (City)

Phase III (10 Year Phase Review). Phase III of the Landfill may occur following review by the Director of Planning of the operational history with the assistance of the Technical Advisory Committee, Independent Consultants, and/or Local Enforcement Agency.

Current Status/Comments – The Phase III (10-year Phase Review) was completed and acted upon on October 22, 2015. No further action is required.

Q-C.5 (City)

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

Current Status/Comments – On January 27th, graffiti was observed on the white block wall south of the landfill entrance near the gas company's meter station.

In mid-February, the graffiti was removed from the white block wall.

On March 23rd, new graffiti was observed on the same frontage white block wall. Republic staff was informed of the monitor's observation and stated that operations personnel would paint over it.

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 – Throughout the 1st Quarter of 2016, the Sunshine Gas Producers gas-to-energy facility was operating at full capacity except for a two-day period where the control air supply equipment was being repaired. Flare #1 operated throughout the entire 1st Quarter, with Flares 9 and 10 operated on an as-needed basis, depending on the gas flow.

In January, the gas flow to the facility averaged 7900 SCFM with full energy production. Gas flared at the landfill flares #1, #9 and #10 was on average 2000 SCFM at Flare 1 and 3000 SCFM at Flare 10. Flare 9 was not operating.

In early March, the gas flow to the facility was averaging 8200 SCFM. Gas flared averaged 1700 SCFM at Flare 1 and 3200 at Flare 10. Flare 9 was not operating.

In late March, the monitoring was done on the day that there was an equipment shutdown of the control air supply equipment. Energy production was down approximately 25%. The gas flow to the facility was 7000 SCFM. Gas flared averaged 1800 SCFM at Flare 1, 2600 SCFM at Flare 9, and 2600 SCFM at Flare 10.

The amount and quality of gas recovered should be tracked as filling proceeds and additional gas recovery wells and piping are installed. Currently, the gas being flared is averaging a flow of 5000 SCFM with a methane content averaging 45% or greater. 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. 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 – In early March, it was observed that the secondary access road from City Deck C to the oil field and Sesnon Boulevard was graded and surfaced to allow passenger vehicle use. Construction for the Edison high voltage poles and access roadways to the poles and Flare 3 was underway during March. At the completion of this construction, a fire plot plan showing the new locations of offices, maintenance facilities, water tanks, fire hydrants, Edison poles and equipment, roadways and emergency egress should be prepared and provided to the City Fire Department and City and County Planning. Emergency egress should be posted for site 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 – During the 1st Quarter 2016 monitoring period, the only landfill development grading activities were in the area south and east of Basin A for the future Cell CC-4 and east of Cell CC-3A for development of Cell CC-3B. The hill south and east of Basin A was previously the site of the office and equipment maintenance center, with the excavated soil being used for daily cover with the ADC and stockpiled for future use. Grading for the liner installation and drainage at Cell CC-3B was completed on March 21st and waste was disposed of in a half-acre area on March 22nd. All excavation in undisturbed native soils was being monitored by a paleontologist.

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 seen 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 – In the 1st Quarter 2016, the El Niño rains provided the moisture to germinate the areas along the realigned access road that had jute netting and were hydroseeded. Other areas in the landfill that were hydroseeded in 2014 had some of those areas germinate. The old City South Landfill had the existing plants fill in and green-up, and their seeds germinate from the rains.

Alternatives to hydroseeding on interim and inactive slopes and decks for slope stability and dust control were being used due to the drought. Jute netting and plastic netting was being used on slopes. No hydroseeding was done in the fall of 2015.

The majority of the slope erosion control was being done by straw wattles, which performed well in most areas. During the extremely heavy rain events, the HDPE-lined downcomers and bench V-ditches east of Cell CC-3B had washed away. The terminal basin was modified with K-rails to slow the rainwater and drop out the sediment. This basin performed well and controlled sediment from leaving the site.

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 – As previously noted in the 4th Quarter 2015 report, two old oil well casings were observed in the area south and east of Basin A where grading for future Cell CC-4 is underway. These wells were previously abandoned and the wells did not show any gas or oil emissions when tested. When the final grading elevation is reached in this area, these wells will need to be tested for hydrocarbons, lowered and re-abandoned.

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 will be reported.

In early January, the monitors drove the entire adjacent Granada Hills neighborhood and did not detect any landfill odors. In late January, the monitors drove the entire adjacent Granada Hills neighborhood and did not detect any landfill odors. Additionally, the monitors drove to the greenwaste recycling facilities on Blucher Avenue and did not detect strong odors on Blucher Avenue, nor the I-405 Freeway. These greenwaste recycling facilities are not owned or operated by Republic. A small area along the haul road in Cell CC-3A had a strong localized odor. This odor could not be detected beyond that small area.

In mid-February, a monitor drove the entire Granada Hills neighborhood from 7:00–7:45 a.m. and did not detect any landfill odors. Again at 9:30 a.m., the monitoring team drove the neighborhood and detected no landfill odors. The greenwaste facilities on Blucher Avenue were also visited and greenwaste odors were localized to the facilities. Localized odors were detected at the leachate treatment equipment when within approximately 30 feet of the concrete berm area. Also, localized odor was detected on the haul road near Well #684. The odors from these areas could not be detected once we were more than 30 feet away from the area.

In early March, a monitor drove the entire Granada Hills neighborhood from 6:45–7:30 a.m. and detected no landfill odors. The monitors drove to the greenwaste processing facilities on Blucher Avenue and detected a strong greenwaste odor on Blucher Avenue coming from the area between C&D Recycling and North Hills Recycling. The odor was not detected on the I-405 Freeway. The monitors drove back to the landfill and up the haul road. At approximately 9:00 a.m., localized

liquid odors were detected coming from the landfill slopes of Cell CC-3A half way up the road to the operating area. The working face was observed. Trash was being pushed up against the prior day's lift, with no fresh trash exposed to the south. Only a slight localized working face odor was detected on the adjacent haul road. The misters on the litter fencing were operating and two Dust Boss blowers were operating at the working area. One additional Dust Boss was operating on the main access road.

In late March, a monitor drove the entire adjacent neighborhood from 6:55–7:25 a.m. and did not detect any landfill odors. The monitor drove the haul road in Cell CC-3A to the working area. In one area before the turnout apron there was a localized gas odor detected coming from the slopes, and in another area there was a localized liquid odor detected. This was at approximately 8:00 a.m. At approximately 11:00 a.m., these odors were no longer detected. It appears that an air supply system was not operating between 8:00 and 10:30 a.m., and the removal of landfill liquids by air pumps was temporarily not operating. The localized odors were not detected beyond 30 to 50 feet. ADC was being used for daily cover on Cell CC-3A Monday through Friday during the entire 1st Quarter of 2016. There were no ADC operating problems seen during site monitoring due to high winds or rainstorms. There was no waste exposed or gaps in ADC that could cause an odor source.

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.

In the 1st Quarter, the monitors observed that temporary drainage control systems were installed downstream of the Cell CC-3B with their discharge into the terminal basin. The systems had major erosion during the heavy El Niño rain events. These systems were repaired and modified between rainstorms. The terminal basin controlled the sediment from leaving the site.

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 should have final cover should be available for review. Documents showing current filled elevations should also be available onsite for review and use. 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 erosion control plan should be available onsite for review. This plan should be a living document that keeps up with construction activities.

In early January, the jute netting and drainage channels installed above the realigned access road performed as designed during the first major rain event of the El Niño weather pattern. The slopes below the road had minor erosion except for the temporary HDPE downcomer from the road box culverts to the terminal basin. This temporary channel washed away due to high water flows. Any sediment was controlled at the terminal basin. All other areas of the landfill had minor amounts of erosion. The County sage mitigation area had deep rutted erosion in the native hillside which deposited a substantial amount of soil into the westside channel. Erosion control should be considered for this area if the sage mitigation is not designed and implemented before the next rainy season.

In late January, the cell construction for CC-3B had areas of soil washed into the terminal basin. The terminal basin had stilling areas created by Republic using concrete K-rails, which allowed sediment to settle out of the rainwater before leaving the site. Any repairs needed to the construction of Cell CC-3B was done when the area dried out in February.

In late February, the County sage mitigation area was observed having additional native soils eroded from the hillside into the westside drainage channel. Sediment was captured in Basin A. Hillside repair will not be able to occur in this area until summer weather.

In early March, Cell CC-3B had areas of the liner cushion soils eroded away by rain storms. The terminal basin captured any eroded soils and kept them on site. The rest of the landfill had minor slope erosion. The native hillsides in the County sage area had minor erosion.

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 – In early January, there was a temporary basin constructed near the old office grading site to control run-off from the area being graded. This basin performed well and had retained a significant amount of rainwater. Basins A, B and D all performed as designed. The westside drainage channel had water flowing in back of the channel wall. The channel walls and floor continue to lift in the area. The repair of this section of channel had not been scheduled.

In late January, the westside drainage channel floor uplifting and sidewall spalling was worsening. Water was flowing behind the westside concrete wall. Repairs are scheduled for after this season's rains. The frontage retaining wall on San Fernando Road had more soil accumulating against the fence installed along the top of the wall. It was observed that there was some horizontal movement of the concrete blocks where the fence was loaded with soils causing a horizontal load. There was also a substantial amount of soil in front of the retaining wall with no flat walking area being present.

In mid-February, the westside drainage channel had the channel floor replaced where it was previously lifting and cracking. The sidewall that was letting water undermine this section was also repaired. The retaining wall southeast of the landfill entrance continues to have sloughed soil piled up on top of the wall blocking the wall's drainage channel and creating a horizontal force against the chain link fence. The trees on top of the slope are losing root soil and may pose a hazard to the power line and San Fernando Road.

In early March, the westside drainage channel had minimal sediment and the repairs to the channel perform like a new channel. The Basin D outlet channel had corrugated steel pipe installed in portions of the channel and was covered with soil to allow access for the new Edison poles installation and long-term maintenance.

In late March, the slope above the frontage retaining wall southeast of the entrance had lost more soil and the oak trees at the top of the slope had more exposed roots and appear to be less stable. Republic was going to have their arborist examine their condition and provide recommendations, if needed.

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 early January, the City Deck C sage mitigation was doing well. The County sage mitigation slopes had deep rutted erosion. Methods to stabilize the slopes and promote sage growth should be investigated and considered for implementation.

In late January, the monitor observed that the City Deck C sage mitigation was doing well. The moisture and cooler weather had a positive effect on the mitigation. The mitigation was greening up.

In mid-February, the monitors walked and photographed the County sage mitigation slopes and benches. The monitors observed and photographed slopes and benches with and without native and non-native vegetation. The areas that had vegetation take hold and the difficulty of vegetating other areas are seen in the photos. A detailed approach to be used to have a successful sage mitigation in this area should be investigated.

In early March, City Deck C was doing well and non-natives were being controlled. Areas of the salt bush were also trimmed to allow natives room to grow. The PM-10 berm had oak tree growth in some areas that appear to be sufficient for understory planting. City Decks A and B native vegetation was doing well with the recent rain. Removal of non-natives and mustard was not being done on these decks.

In late March, City Deck C vegetation was doing well. Maintenance and non-native removal had occurred. The PM-10 oak trees were responding well to the winter rains. Planting of the understory vegetation could occur. City Deck A native vegetation was doing well. Non-native removal has not occurred.

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 – In the 1st Quarter of 2016, no progress was made in finalizing an agreement between Republic and the City to use the Chatsworth Reservoir as a wetland mitigation site. An extension of time to implement the mitigation was requested by Republic and granted by the Corps of Engineers.

M-4.4.3(72) (City)

Native tree species shall be replaced at a 2:1 (replacement: removal) ratio, consisting of 15-gallon or 5:1 3-gallon container trees. Mitigation trees shall be planted prior to impacted trees being removed, thus allowing trees to grow to specimen size in the field. A specimen-size tree shall be defined as a 15 gallon tree with a minimum trunk caliper of 1 inch measure 1 foot above ground. All mitigation trees shall be specimen size within 1 year after tree removal.

Current Status/Comments – In late January, the Big Cone Fir mitigation area was observed and approximately 50% of the trees had water wells dug around the tree trunks, and the irrigation piping was repaired and maintained. Some dead fir trees were observed. Republic's next yearly tree survey report should give a tally of the number and age of Big Cone Fir mitigation trees surviving and the required number of mitigation trees.

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 1st Quarter of 2016, the south perimeter oil field gate was observed to be locked.

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 – During the 1st Quarter of 2016, a paleontological consultant was on site monitoring the excavation west and south of the old offices site in the City and County jurisdictions near Basin A. A shark vertebra was recovered and sent to curators at the County Museum. Paleontological reports are on file and are available in Republic's offices.

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 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 underdrains systems with complementing revegetation plan.
- 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/ County, as shown on the Mitigation Monitoring Summary Excel 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 Excel 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 2016 first quarter Mitigation Monitoring Summary Excel spreadsheets track the progress and completion of tasks as they were accomplished during this quarterly period.

Sunshine Canyon Landfill City Mitigation Monitoring Summary (01-01-2016 through 03-31-2016)

Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2015												First Quarter 2016																			
				10/14/2015	Status*	Further Review Needed/Comments**	Resolved*	10/28/2015	Status*	Further Review Needed/Comments**	Resolved*	11/16/2015	Status*	Further Review Needed/Comments**	Resolved*	12/9/2015	Status*	Further Review Needed/Comments**	Resolved*	1/7/2016	Status*	Further Review Needed/Comments**	Resolved*	2/24/2016	Status*	Further Review Needed/Comments**	Resolved*	3/9/2016	Status*	Further Review Needed/Comments**	Resolved*	3/23/2016	Status*	Further Review Needed/Comments**	Resolved*
M - 4.2.11	23	Revegetation/Excavation	ongoing	✓	FRN	I-n	✓	FRN	I-o	✓	FRN	I-p	✓	FRN	I-q	✓	FRN	I-a	✓	FRN	I-b	✓	FRN	I-c	✓	FRN	I-d	✓	FRN	I-e					
M - 4.2.12		Temporary Vegetation Cover	ongoing	✓	FRN	I-n	✓	FRN	I-o	✓	FRN	I-p	✓	FRN	I-q	✓	FRN	I-a	✓	FRN	I-b	✓	FRN	I-c	✓	FRN	I-d	✓	FRN	I-e					
M - 4.4.1	60	Coastal Sage Scrub Mitigation Plan	ongoing	✓	C	I-n	✓	C	I-o							✓	FRN	I-a	✓	FRN	I-b	✓	FRN	I-c	✓	FRN	I-d	✓	FRN	I-e					
M - 4.4.1	61	Coastal Sage Scrub Seeding	ongoing																																
M - 4.4.1	62	Mariposa Lily Mitigation Plan	ongoing	/			/			/			/			/			/			/			/			/							
M - 4.4.1	63	San Diego Horned Lizard Mitigation	ongoing	/			/			/			/			/			/			/			/			/							
M - 4.4.1	64	California Gnatcatcher Surveys	ongoing	/			/			/			/			/			/			/			/			/							
M - 4.4.1	65	Least Bell's Vireo Surveys	ongoing	/			/			/			/			/			/			/			/			/							
M - 4.4.1	66	Western Burrowing Owl Surveys	ongoing	/			/			/			/			/			/			/			/			/							
M - 4.4.1	67	Migratory Bird Treaty Act	ongoing	/			/			/			/			/			/			/			/			/							
M - 4.4.1	68	Raptor Nests Habitat	ongoing	/			/			/			/			/			/			/			/			/							
M - 4.4.3	72	Native Tree Mitigation	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	FRN	I-c	✓	C	NONE	✓	C	NONE	✓	C	NONE		
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	✓	C	NONE		
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	✓	C	NONE		
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	✓	C	NONE		
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	✓	C	NONE		
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	✓	C	NONE		
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	✓	C	NONE		
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	✓	C	NONE		
M - 4.4.3	80	Tree Irrigation/Fertilization	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	I-b	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
M - 4.4.3	81	Irrigation System	ongoing																																
M - 4.4.3	82	Annual Tree Monitoring Report	annual																✓	FRN	I-b														
M - 4.9.2	96	Vector Activity Monitoring	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE																				
M - 4.9.2	97	Vector Elimination	ongoing																																
M - 4.9.2	98	Fly Control	ongoing																																
M - 4.9.2	99	Rodent Control	ongoing													✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
M - 4.9.2	100	Operational Vector-Limiting Activity	ongoing																																
M - 4.9.2	101	Equipment Cleanliness/Maintenance	ongoing	✓	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 County Mitigation Monitoring Summary
(01-01-2016 through 03-31-2016)**

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2015												First Quarter 2016																						
					10/14/2015	Status*	Further Review Needed/Comments**	Resolved*	10/28/2015	Status*	Further Review Needed/Comments**	Resolved*	11/16/2015	Status*	Further Review Needed/Comments**	Resolved*	12/9/2015	Status*	Further Review Needed/Comments**	Resolved*	1/7/2016	Status*	Further Review Needed/Comments**	Resolved*	1/27/2016	Status*	Further Review Needed/Comments**	Resolved*	2/12/2016	Status*	Further Review Needed/Comments**	Resolved*	3/9/2016	Status*	Further Review Needed/Comments**	Resolved*			
					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																																			
164	Surface Water - 2.11		Surface Water Quality-Collection/Monitoring	ongoing																																			
165	Surface Water - 2.12		Permanent/Temporary Drainage Facilities	ongoing										✓	C	I-q																							
166	Surface Water - 2.13		Permanent/Temporary Drainage Facilities	ongoing																																			
167	Surface Water - 2.14		Erosion Control Plan	ongoing	✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e
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 Hydroseed Vegetation	ongoing	✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e
176	Revegetation - 44.B	44.B	Interim Reclamation/Revegetation Plan-Solid 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	✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e
181	Geology - 1.14		Personnel Retention for Monitoring Soil Erosion	ongoing	✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e
182	Groundwater - 3.11		Irrigation/Revegetation Management- Personnel Retention	ongoing																																			
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-p		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	I-c		✓	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-n		✓	FRN	I-o																												
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																																			

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**Sunshine Canyon Landfill County Mitigation Monitoring Summary
(01-01-2016 through 03-31-2016)**

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2015												First Quarter 2016																				
					10/14/2015	Status*	Further Review Needed/Comments**	Resolved*	10/28/2015	Status*	Further Review Needed/Comments**	Resolved*	11/16/2015	Status*	Further Review Needed/Comments**	Resolved*	11/29/2015	Status*	Further Review Needed/Comments**	Resolved*	1/7/2016	Status*	Further Review Needed/Comments**	Resolved*	1/27/2016	Status*	Further Review Needed/Comments**	Resolved*	2/10/2016	Status*	Further Review Needed/Comments**	Resolved*	2/24/2016	Status*	Further Review Needed/Comments**	Resolved*	
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-n	✓	FRN	I-o	✓	FRN	I-p	✓	FRN	I-q	✓	FRN	I-a	✓	FRN	I-b	✓	FRN	I-c	✓	FRN	I-d	✓	FRN	I-e						
202	BIOTA - 4.43		Replacement Riparian Habitat	status				✓	FRN	I-o																✓	FRN	I-d									
203	Air Quality - 6.02		Dust Control	ongoing	✓	FRN	I-n	✓	FRN	I-o	✓	FRN	I-p	✓	FRN	I-q	✓	FRN	I-a	✓	FRN	I-b	✓	FRN	I-c	✓	FRN	I-d	✓	FRN	I-e						
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	✓	FRN	I-n	✓	FRN	I-o	✓	FRN	I-p	✓	FRN	I-q	✓	FRN	I-a	✓	FRN	I-b	✓	FRN	I-c	✓	FRN	I-d	✓	FRN	I-e						
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	✓	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	✓	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	✓	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	✓	C	NONE			
215																																					
216	Air Quality & Noise Specialist																																				
217																																					
218																																					
219	Fugitive Dust - 45.F	45.F	Fugitive Dust Monitoring	ongoing																																	
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	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE			
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	✓	FRN	I-p	✓	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			

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**Sunshine Canyon Landfill County Mitigation Monitoring Summary
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Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2015												First Quarter 2016																				
					10/14/2015	Status*	Further Review Needed/Comments**	Resolved*	10/28/2015	Status*	Further Review Needed/Comments**	Resolved*	11/16/2015	Status*	Further Review Needed/Comments**	Resolved*	11/29/2015	Status*	Further Review Needed/Comments**	Resolved*	1/7/2016	Status*	Further Review Needed/Comments**	Resolved*	1/21/2016	Status*	Further Review Needed/Comments**	Resolved*	2/4/2016	Status*	Further Review Needed/Comments**	Resolved*	2/18/2016	Status*	Further Review Needed/Comments**	Resolved*	
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		
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		
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		
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		
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		
244	Admin Rpts/ Pgms-17.16		Air Quality Monitoring-Corrective Action Plan	ongoing	/				/				/				/				/				/				/				/				
245																																					
246																																					
247	Hydrology, Hazardous Waste / Risk of Upset																																				
248																																					
249																																					
250	IMP - Part IV.E	IMP4	Load Inspection-Random Manual	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
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		
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		
255	Fire Service - 12.03		On-site Fire Response Capabilities-Roads/Water	ongoing	✓	FRN	I-n																					✓	FRN	I-d		✓	FRN	I-e			
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		
257	Fire Service - 12.05		Building Limits	ongoing	✓	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		
259	Hazardous Materials - 13.02		Waste Load Checking Program	ongoing	✓	C	NONE																														
260	Hazardous Materials - 13.05		Hazardous Waste Disposal	ongoing	✓	C	NONE																														
261	Hazardous Materials - 13.10		Hazardous Waste-Procedures	ongoing	✓	C	NONE																														
262	Hazardous Materials - 13.11		Spill Response Program	ongoing	✓	C	NONE		✓	FRN	I-o		✓	C	I-p		✓	FRN	I-q																		
263	Safety - 16.02		Injury and Illness Prevention Program	status	✓	C	NONE																														
264	Safety - 16.03		Working Conditions-Monitoring	status	✓	C	NONE																														
265	Safety - 16.04		Inspection Checklist-Work Area Exposure	status	✓	C	NONE																														
266	Safety - 16.07		Accident/Injury Reports	status	✓	C	NONE																														

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Appendix I

Further Review Needed-Comments/ I-a through I-e

First Quarter 2016 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-a: Cell CC-3B had three pumps draining water from the area. A significant amount of soil erosion occurred in the cell construction area. The working disposal area was in Cell CC-3A and ADC was being used as daily cover. The ADC was performing well.</p> <p>I-b: Cell CC-3B was nearing completion with the final liner cushion soil being placed. RWQCB had approved Cell CC-3B for waste placement. ADC was being used at the Cell CC-3A working disposal area and performing well.</p> <p>I-c: Cell CC-3B had repairs still in progress to repair impacts from January's and recent rains. The working disposal area was in Cell CC-3A and ADC was being used for daily cover and was performing well.</p> <p>I-d: Cell CC-3B had areas of the liner cushion soil eroded away from the recent rain. The working disposal area was in Cell CC-3A and ADC was being used for daily cover and performing well.</p> <p>I-e: Two operating areas were initiated on March 22nd: a small, half-acre area in Cell CC-3B and an approximately 4-acre area in Cell CC-3A. ADC was used in both locations and performed as designed.</p>
		Geology - 1.07	County DPW EPD/County LEA	I-a, I-b, I-c, I-d and I-e: See Q - B.2.c above.
		Geology - 1.12	County DPW EPD/County LEA	I-a, I-b, I-c, I-d and I-e: See Q - B.2.c above.
	Q - B.2.d		City Planning	I-a: The Phase III (10-year Phase Review) was completed in the 4th Quarter of 2015 and submitted to and acted upon by the City of Los Angeles Planning Commission on October 22, 2015. No further action is required.
	Q - C.5			<p>I-b: Graffiti was observed on the white block wall south of the entrance near the Gas Company's equipment.</p> <p>I-c: The graffiti was observed to be removed from the white block wall.</p>
	Q - C.10.c		City Planning	<p>I-a: The gas-to-energy plant was operating at full production using 7800 SCFM, 47.3% methane. Flare 1 - 1915 SCFM; Flares 3 and 9 were shut down; Flare 10 - 3050 SCFM.</p> <p>I-b: The gas-to-energy plant was operating at full production using 7912 SCFM, 48.6% methane. Flare 1 - 2095 SCFM; Flares 3 and 9 were shut down; Flare 10 - 3060 SCFM.</p> <p>I-d: The gas-to-energy plant was operating at full production using 8253 SCFM, 48.6% methane. Flare 1 - 1656 SCFM; Flares 3 and 9 were shut down; Flare 10 - 3331 SCFM.</p> <p>I-e: The gas-to-energy plant was operating at reduced production 13.7 MW sales using 7032 SCFM, 46.2% methane. Flare 1 - 1815 SCFM; Flare 3 was shut down; Flare 9 - 2575 SCFM; Flare 10 - 2585 SCFM.</p>
		Odor/Landfill Gas - 7.07	County Planning/SCAQMD SCL-LEA	I-a, I-b, I-d, and I-e: See Q - C.10.c above.
		Gas - 52	County DPW EPD/SCL-LEA County Forester Fire Warden	I-a, I-b, I-d, and I-e: See Q - C.10.c above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed-Comments
Project Manager	T-4		City Planning, City Fire Department	<p>I-d: The secondary access road from City Deck C to the oil field and Sesnon Boulevard was graded and surfaced to allow passenger vehicle use.</p> <p>I-e: Construction for the Edison high voltage poles and access roadways to the poles and Flare 3 was underway. A fire plot plan showing the new locations of offices, maintenance facilities, water tanks, fire hydrants, Edison poles and equipment, roadways, and emergency egress should be prepared and provided to the City Fire Department and City and County Planning. Emergency egress should be posted for site employees and customers when construction is completed.</p>
		Fire Service - 12.03	County DPW EPD/SCL-LEA County Forester Fire Warden	I-d and I-e: See T-4 above.
	M - 4.1.1 / 7	Re-abandonment Procedures	County Forester	I-a, I-b, I-c, I-d and I-e: The two old, previously abandoned oil wells in the future Cell CC-4 have not been lowered as additional grading is required in that area before they can be lowered and re-abandoned. Current tests show no oil or gas emissions.
	M - 4.2.12 / 28		Fire Warden	<p>I-a, I-b, I-c, I-d and I-e: El Niño rains provided the moisture to germinate the areas along the realigned access road that had jute netting and were hydroseeded. Other areas in the landfill that were hydroseeded in 2014 had some of those areas germinate. The old City South Landfill had the existing plants and their seeds filled in and green-up from the rains.</p> <p>Alternatives to hydroseeding on interim and inactive slopes and decks for slope stability and dust control were being used due to the drought. Jute netting and plastic netting was being used on slopes. No hydroseeding was done in the fall of 2015.</p> <p>The majority of the slope erosion control was being done by straw wattles and they performed well in most areas. During the extremely heavy rain events, the HDPE-lined down-comers and bench V-ditches east of Cell CC-3B had washed away. The terminal basin performed well and controlled sediment from leaving the site.</p>
	M -4.2.13/ 29, 30, 32, 34		City Planning/SCL-LEA/SCAQMD	I-a through I-e: 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.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed-Comments
Project Manager	M - 4.2.13 / 33		City Planning/SCAQMD	<p>I-a: The monitor drove the adjacent neighborhood and did not detect any landfill odors.</p> <p>I-b: The monitor drove the adjacent neighborhood and no landfill odors were detected. The monitor drove up the haul road to the operating area. Half way up the haul road there were strong localized landfill liquids odors coming from the west-facing slope of CC-3A near the road turnout. The location of the odor source could not be determined. This odor could only be detected in a small area. The monitor drove to the greenwaste facilities (not Republic's) on Blucher Avenue. The monitor did not detect strong odors on Blucher or the I-405.</p> <p>I-c: The monitor drove the entire adjacent neighborhood 7:00 to 7:45 and 9:30 to 10:00 a.m. and did not detect any landfill odors. Localized odors were detected at the leachate treatment facility. Localized odors were detected at the greenwaste facilities on Blucher Avenue.</p> <p>I-d: The monitor drove the entire adjacent neighborhood from 6:45 to 7:30 a.m. and detected no landfill odors. The monitors drove to the greenwaste processing facilities on Blucher Avenue and detected strong greenwaste odor on Blucher coming from the area between C&D Recycling and North Hills Recycling. No odor was detected on the 405 Freeway. The monitor drove up the Cell CC-3A haul road at approximately 9:00 a.m. and at a location halfway up the road, a localized liquids odor was coming from the Cell CC-3A slopes.</p> <p>I-e: The monitor drove the entire adjacent neighborhood from 6:55 to 7:25 a.m. and no landfill odor was detected. The monitor drove the haul road in Cell CC-3A and in one area before the turnout apron, there was a localized gas odor detected coming from the slopes and in another area there was a localized liquid odor detected at approximately 8:00 a.m. At approximately 11:00 a.m., these localized odors were not detected. The liquid removal air supply system was being repaired between 8:00 and 10:30 a.m.</p>
		Odor/Landfill Gas - 7.06	County DPW-EPD/SCL-LEA/SCAQMD	I-a through I-e: See M-4.2.13/33 above.
		Amendment 45.N - 4.a, 4.c, 4.d	County DPW-EPD	I-a through I-e: See M-4.2.13/29, 30, 32, 33, and 34 above.
		Amendment 45.N - 5	County DPW-EPD	I-a through I-e: See M-4.2.13/29, 30, 32, 33, and 34 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed-Comments
Project Manager		Surface Water - 2.15	County DPW EPD/ LARWQCB, SCL- LEA	<p>I-a: A temporary basin was constructed near the old office grading site (future Cell CC-4) to control run-off from the area being graded. This basin performed well. Basins A, B, and D all performed as designed. The westside drainage channel had water flowing in back of the channel wall, and the floor continued to lift in that area. The repair of this section of channel had not been scheduled.</p> <p>I-b: The westside drainage channel floor uplifting and sidewall spalling was worsening. Repairs are scheduled for after this season's rains. The frontage retaining wall on San Fernando Road had more soil accumulating against the fence. Some horizontal movement of the concrete blocks was observed. There was a substantial amount of soil at the foot of the wall, thus eliminating any walkway.</p> <p>I-c: The westside drainage channel had the channel floor replaced where it was previously lifting and cracking. The sidewall that was letting water undermine this channel floor section was also repaired. The San Fernando Road frontage retaining wall continues to have sloughed soil pile up on top of the wall, blocking the wall's drainage channel and creating a horizontal force against the chain link fence. The trees on top of the slope are losing some root soil and may pose a hazard to the power line and San Fernando Road.</p> <p>I-d The Basin D outlet channel had corrugated steel pipe installed in portions of the channel to allow for access roads for the new Edison poled installation and long-term maintenance.</p> <p>I-e: The slope above the San Fernando Road frontage retaining wall had lost more soil and the oak trees at the top of the slope had more exposed roots and appear to be less stable. Republic was going to have their arborist examine the condition of the trees and provide recommendations, if needed.</p>
Civil and Geotechnical Engineer	M - 4.4.2/69		City Planning	I-d: No progress was made in finalizing an agreement with the City of Los Angeles to use the Chatsworth Reservoir as a wetland mitigation site. The Corps of Engineers granted an extension of time to implement the wetland mitigation.
		Biota - 4.4.3	CDFW	I-d: See M - 4.4.2 / 69 above.
	M - 4.1.1 / 2		City Building and Safety City Planning	I-a through I-e: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 4		City Planning/LARWQCB Cal Recycle	I-a through I-e: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 5		City Planning/ LARWQCB Cal Recycle	I-a through I-e: The only landfill development grading activities in the 1st Quarter 2016 were in the area for the future Cell CC-4 and for the development of Cell CC-3B. The excavated soil from the Cell CC-4 area was being used with ADC for daily cover and was stockpiled. Grading for the liner installation and drainage at Cell CC-3B was completed on March 21st and waste disposal commenced in the cell on March 22nd.
		Geology - 1.07	County DPW EPD/ County LEA	I-a through I-e: See M - 4.1.1 / 5 above.
	M - 4.1.5 / 12		City Planning/LARWQCB Cal Recycle	I-a through I-e: See M - 4.1.1 / 5 above.
	M - 4.14.1 / 155		City Planning/Cal Recycle PW-BOE LADBS City LEA	I-a through I-e: Access roads are being maintained around the working area for emergency access.

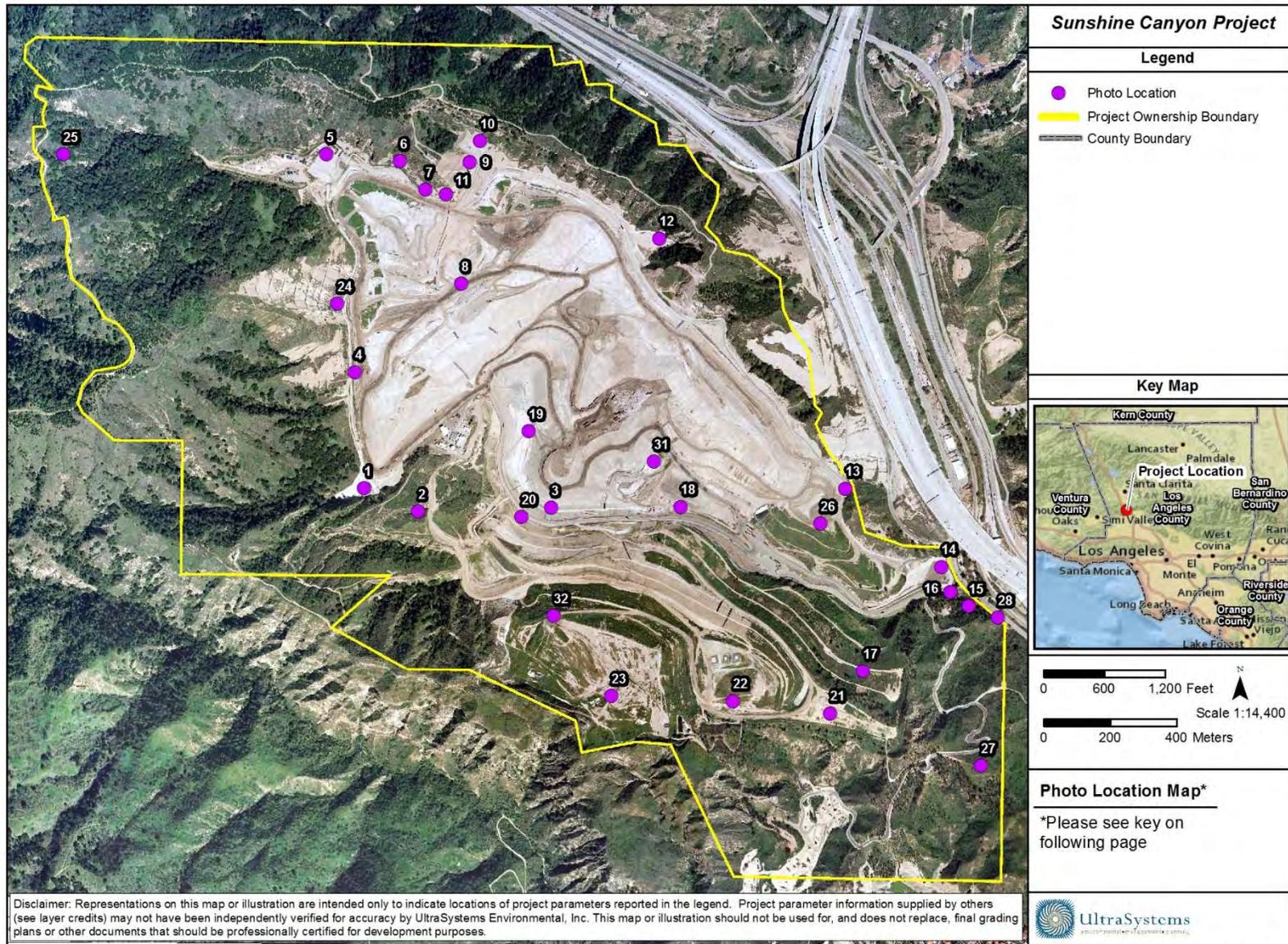
Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed-Comments
Civil and Geotechnical Engineer	M - 4.18 / 178		City Planning/City LEA	I-a through I-e: A map showing areas that are at the final elevations and which should 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.
Hydrologist	M - 4.3.1/ 37, 38		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	I-a through I-e: 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. Temporary drainage control systems were installed downstream of the Cell CC-3B with their discharge into the terminal basin. The systems had major erosion during the heavy El Niño rain events. These systems were repaired and modified between rainstorms. The terminal basin controlled the sediment from leaving the site.
		Surface Water - 2.12	County DPW EPD/ LARWQCB SCL-LEA	I-a through I-e: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 39		City Planning/LARWQCB Cal Recycle	I-a through I-e: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 40		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADEBS	I-a through I-e: See M - 4.3.1/45 below.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed-Comments
Hydrologist	M - 4.3.1 / 45		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	<p>I-a: The drainage systems from the offices to the terminal basin were observed and performed well. Water was being pumped onto the access road and into the lower westside channel from the CC-3A temporary HDPE lined basin. The terminal basin had soil-laden water entering the basin. The K-rails stopped the bulk of the soil prior to the outlet risers. The eastside drainage into the terminal basin was performing well with clear water entering the basin. The temporary HDPE drainage channel from the access road box culverts was washed away by the storm. Deep gullies were observed from the culvert to the terminal basin inlet. The jute netting and the drainage channels on the slopes above the access road performed as designed. No erosion was seen. The slope below the access road had held up well with only minor slope erosion.</p> <p>I-b: The terminal basin had a substantial amount of soil (3-5 feet deposited) from the last rain storms. It looked like material washed from the Cell CC-3B construction area.</p> <p>I-c: The westside drainage channel had the channel floor replaced where it was previously lifting and cracking. The sidewall that was letting water undermine this section was repaired. Corrugated metal pipe was being installed in the Basin D outlet drainage channel. The retaining wall southeast of the landfill entrance continues to have sloughed soil piled up on top of the wall and against the chain link fence. A tree on top of the slope is losing root soil and may pose a hazard to the power line and San Fernando Road.</p> <p>I-d: The Basin D outlet channel had corrugated steel pipe installed in portions of the channel and was covered with soil to allow access for the new Edison poles installation and long-term maintenance.</p> <p>I-e: The frontage retaining wall slope had lost more soil and the oak trees at the top have more exposed roots and look more unstable.</p>
		Surface Water - 2.14	County DPW EPD/ LARWQCB County LEA	I-a through I-e: See M - 4.3.1/45 above.
	M - 4.3.1/ 46		City Planning/ LARWQCB CalRecycle PW-BOE	I-a through I-e: See 2.15 above.
Biologist	M - 4.1.1 / 6		City Planning/ LARWQCB CalRecycle SCL-LEA LADBS	I-a through I-e: See M - 4.2.12 / 28 above.
		Geology - 1.14	LARWQCB/ County Forester	I-a through I-e: See M - 4.2.12 / 28 above.
	M - 4.2.11 / 23		City Planning	I-a through I-e: See M - 4.2.12 / 28 above.
		Geology - 1.13	County DPW EPD/ County Forester LARWQCB	I-a through I-e: See M - 4.2.12 / 28 above.
	M - 4.2.12		SCL-LEA/ City Planning	I-a through I-e: 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-a through I-e: See M - 4.2.12 / 28 above.
		Revegetation - 44.F	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-a through I-e: See M - 4.2.12 / 28 above.
		Biota - 4.42	SCL-LEA	I-a through I-e: See M - 4.2.12 / 28 above.
		Air Quality - 6.02	SCAQMD/ SCL-LEA	I-a through I-e: See M - 4.2.12 / 28 above.
		Visual - 10.08	County Forester	I-a through I-e: See M - 4.2.12 / 28 above.
	M - 4.4.1 / 60		City Planning	I-a: City Deck C sage mitigation was doing well. The County sage mitigation area had deep rutted erosion which deposited soil into the westside channel. Erosion control is needed. I-b: City Deck C sage mitigation had greened up and was doing well with the rains and cooler weather. I-c: City Deck A native vegetation was doing well with the recent rain. Removal of non-natives and mustard was not being done. City Deck B was doing well. Non-natives were not being controlled. City Deck C was doing well and non-natives were being controlled. Areas of the salt bush were trimmed. The PM-10 berm had oak tree growth in some areas that appear to be sufficient for understory planting to take place. I-d: All sage areas on the old City landfill had greened up with the moisture and cool weather. City Deck A vegetation was doing well. Non-native removal had not occurred. City Deck C vegetation was doing well. Maintenance and non-native removal had occurred. The PM-10 oak trees were responding well to the winter rains. Planting of the understory vegetation could occur.
		Biota - 4.27	County LEA/CDFW	I-a through I-e: See M - 4.4.1 / 60 above.
	M - 4.4.3 / 72	Biological Resources		I-b: The Big Cone Fir mitigation area was observed and approximately 50% of the trees had water wells dug around the trees and the irrigation piping maintained. Some dead fir trees were observed. A tally of the number of mitigation trees surviving and what is required should be done by the consulting arborist.
	M - 4.9.4 / 121		City Planning/Cal Recycle Cal OSHA LAFD City LEA	I-a through I-e: See T - 4 above.
M-4.9.4/125		City Planning/ CalRecycle Cal OSHA SCL-LEA	I-a through I-e: Throughout the 1st Quarter 2016, the south perimeter oil field gate was observed to be locked.	
Paleontologist	M-4.19.2/191		City Planning	I-a through I-e: A paleontological consultant was on site monitoring the excavation west and south of the old offices site in the City and County jurisdictions, near Basin A. A shark vertebra was recovered and sent to the curators at the County Museum. Paleontological reports are on file and are available in Republic's office.
		Ecological Significance 62	County Planning	I-a through I-e: See M-4.19.2/191 above.

Appendix II

Relevant Site Photos



Path: J:\Projects\5800_Sunshine_Canyon\MXD\PhotoLocations\5800_Sunshine_Canyon_PhotoLocations_Quarterly_Report_#1_2018.mxd
 Service Layer Credits: Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp., CAL FIRE, 2007; Republic, 2013; UltraSystems Environmental, Inc., 2016

April 27, 2016

Photo Location Map Key

Map Location	Title	Photo Number
1.	Basin A Area	1-43
2.	Site Grading South of Basin A	44-75
3.	City Lined Drainage Lift Area	76-93
4.	Westside Drainage Channel	94-117
5.	Basin D Area	118-130
6.	Basin D Outlet Channel	131-139
7.	Edison Power Pole Construction Sites	140-155
8.	County Top Deck	159-180
9.	Flares 8-10	156-158
10.	Gas-to-Energy Facility	-
11.	Flares 8-10 Adjacent Hillsides	-
12.	Basin B Area	181-205
13.	Eastside Drainage Channel	-
14.	Terminal Basin	206-257
15.	Sewer and Gray Water Area	504-508
16.	Leachate Treatment Facility	494-503
17.	Realigned Access Road	301-329
18.	Cell CC3B Area	258-300
19.	County and City Erosion Control	330-368
20.	Truck Scale and Office Facilities Area	565, 566
21.	City Sage Mitigation - Deck C	369-401
22.	City Sage Mitigation - Deck B	402-411
23.	City Sage Mitigation - Deck A	412-420
24.	County Sage Mitigation Area	426-483
25.	Big Cone Fir Mitigation	484-489
26.	Old City North	-
27.	Oak Tree Mitigation in Buffer Area	421-425
28.	San Fernando Road Frontage	509-531
29.	Litter and Illegal Dump Offsite	532-562
30.	Offsite Greenwaste Odor Sources	563, 564
31.	Site Working Area	565-679
32.	General Site Area	491-493, 680-727



Photo 1: Basin A: January 7, 2016



Photo 2: Basin A: January 7, 2016



Photo 3: Basin A: January 7, 2016



Photo 4: Basin A: January 7, 2016



Photo 5: Basin A Outlet: January 7, 2016



Photo 6: Basin A Outlet: January 7, 2016



Photo 7: Basin A Native Hillside: January 7, 2016



Photo 8: Basin A Native Hillside: January 7, 2016



Photo 9: Basin A Native Hillside: January 7, 2016



Photo 10: Basin A Native Hillside: January 7, 2016



Photo 11: Basin A: January 27, 2015



Photo 12: Basin A: January 27, 2015



Photo 13: Basin A: January 27, 2015



Photo 14: Basin A Outlet: January 27, 2015



Photo 15: Basin A Outlet: January 27, 2015



Photo 16: Basin A Native Hillside: January 27, 2015



Photo 17: Basin A Native Hillside: January 27, 2015



Photo 18: Basin A Native Hillside: January 27, 2015



Photo 19: Basin A: February 24, 2016



Photo 20: Basin A: February 24, 2016



Photo 21: Basin A: February 24, 2016



Photo 22: Basin A: February 24, 2016



Photo 23: Basin A Outlet: February 24, 2016



Photo 24: Basin A Outlet: February 24, 2016



Photo 25: Basin A Native Hillside: February 24, 2016



Photo 26: Basin A Native Hillside: February 24, 2016



Photo 27: Basin A Native Hillside: February 24, 2016



Photo 28: Basin A: March 9, 2016



Photo 29: Basin A: March 9, 2016



Photo 30: Basin A: March 9, 2016



Photo 31: Basin A Outlet: March 9, 2016



Photo 32: Basin A Outlet: March 9, 2016



Photo 33: Basin A: Native Hillside: March 9, 2016



Photo 34: Basin A: Native Hillside: March 9, 2016



Photo 35: Basin A: Native Hillside: March 9, 2016



Photo 36: Basin A: March 23, 2016



Photo 37: Basin A: March 23, 2016



Photo 38: Basin A: March 23, 2016



Photo 39: Basin A: March 23, 2016



Photo 40: Basin A: March 23, 2016



Photo 41: Basin A Outlet: March 23, 2016



Photo 42: Basin A Native Hillside: March 23, 2016



Photo 43: Basin A Native Hillside: March 23, 2016



Photo 44: Site Grading South of Basin A: January 7, 2016



Photo 45: Site Grading South of Basin A: January 7, 2016



Photo 46: Site Grading South of Basin A: January 7, 2016



Photo 47: Site Scale Facilities: January 7, 2016



Photo 48: Site Grading South of Basin A: January 27, 2016



Photo 49: Site Grading South of Basin A: January 27, 2016



Photo 50: Site Grading South of Basin A: January 27, 2016



Photo 51: Site Grading South of Basin A: January 27, 2016



Photo 52: Site Grading South of Basin A: January 27, 2016



Photo 53: Site Grading South of Basin A: January 27, 2016



Photo 54: Site Grading South of Basin A: January 27, 2016



Photo 55: Site Grading South of Basin A: January 27, 2016



Photo 56: Site Grading South of Basin A: February 24, 2016



Photo 57: Site Grading South of Basin A: February 24, 2016



Photo 58: Site Grading South of Basin A: February 24, 2016



Photo 59: Site Grading South of Basin A: February 24, 2016



Photo 60: Site Grading South of Basin A: February 24, 2016



Photo 61: Site Grading South of Basin A: February 24, 2016



Photo 62: Site Grading South of Basin A: March 9, 2016



Photo 63: Site Grading South of Basin A: March 9, 2016



Photo 64: Site Grading South of Basin A: March 9, 2016



Photo 65: Site Grading South of Basin A: March 9, 2016



Photo 66: Site Grading South of Basin A March 9, 2016



Photo 67: Site Grading South of Basin A: March 9, 2016



Photo 68: Site Grading South of Basin A: March 9, 2016



Photo 69: Site Grading South of Basin A: March 9, 2016



Photo 70: Site Grading South of Basin A: March 23, 2016



Photo 71: Site Grading South of Basin A: March 23, 2016



Photo 72: Site Grading South of Basin A: March 23, 2016



Photo 73: Oil Well Casings to be Abandoned: March 9, 2016



Photo 74: Oil Well Casings to be Abandoned: March 9, 2016



Photo 75: Oil Well Casings to be Abandoned: March 23, 2016



Photo 76: City Lined Drainage Lift Area: January 7, 2016



**Photo 77: Water Removal at City Lined Drainage Lift Area:
January 7, 2016**



**Photo 78: Water Removal at City Lined Drainage Lift Area:
January 7, 2016**



**Photo 79: Water Removal at City Lined Drainage Lift Area:
January 7, 2016**



**Photo 80: Water Removal at City Lined Drainage Lift Area:
January 7, 2016**



Photo 81: City Lined Drainage Lift Area: January 27, 2016



Photo 82: City Lined Drainage Lift Area: January 27, 2016



Photo 83: City Lined Drainage Lift Area: January 27, 2016



Photo 84: City Lined Drainage Lift Area: January 27, 2016



Photo 85: City Lined Drainage Lift Area: February 24, 2016



Photo 86: City Lined Drainage Lift Area: February 24, 2016



Photo 87: City Lined Drainage Lift Area: February 24, 2016



Photo 88: City Lined Drainage Lift Area: February 24, 2016



Photo 89: City Lined Drainage Lift Area: February 24, 2016



Photo 90: Site: March 9, 2016



Photo 91: City Lined Drainage Lift Area: March 23, 2016



Photo 92: City Lined Drainage Lift Area: March 23, 2016



Photo 93: City Lined Drainage Lift Area: March 23, 2016



Photo 94: Westside Drainage Channel: January 7, 2016



Photo 95: Westside Drainage Channel: January 7, 2016



Photo 96: Westside Drainage Channel: January 7, 2016



Photo 97: Westside Drainage Channel: January 7, 2016



Photo 98: Westside Drainage Channel: January 7, 2016



Photo 99: Westside Drainage Channel: January 7, 2016



Photo 100: Westside Drainage Channel: January 7, 2016



Photo 101: Westside Drainage Channel: January 7, 2016



Photo 102: Westside Drainage Channel: January 7, 2016



Photo 103: Westside Drainage Channel: January 27, 2016



Photo 104: Westside Drainage Channel: January 27, 2016



Photo 105: Westside Drainage Channel: January 27, 2016



Photo 106: Westside Drainage Channel: January 27, 2016



Photo 107: Westside Drainage Channel: January 27, 2016



Photo 108: Westside Drainage Channel: February 24, 2016



Photo 109: Westside Drainage Channel: February 24, 2016



Photo 110: Westside Drainage Channel: February 24, 2016



Photo 111: Westside Drainage Channel: February 24, 2016



Photo 112: Westside Drainage Channel: February 24, 2016



Photo 113: Westside Drainage Channel: February 24, 2016



Photo 114: Westside Drainage Channel: February 24, 2016



Photo 115: Westside Drainage Channel: March 9, 2016



Photo 116: Westside Drainage Channel: March 9, 2016



Photo 117: Westside Drainage Channel: March 9, 2016



Photo 118: Native Hillside Area Drainage into Basin D: January 7, 2016



Photo 119: Basin D: January 7, 2016



Photo 120: Basin D: January 7, 2016



Photo 121: Basin D: January 7, 2016



Photo 122: Basin D: January 27, 2016



Photo 123: Basin D: January 27, 2016



Photo 124: Basin D: January 27, 2016



Photo 125: Basin D: January 27, 2016



Photo 126: Basin D: January 27, 2016



Photo 127: Basin D: January 27, 2016



Photo 128: Hillside Drainage into Basin D: March 23, 2016



Photo 129: Hillside Drainage into Basin D: March 23, 2016



Photo 130: Hillside Drainage into Basin D: March 23, 2016



Photo 131: Basin D Outlet Channel: January 7, 2016



Photo 132: Basin D Outlet Channel: January 7, 2016



Photo 133: Basin D Outlet Channel: January 7, 2016



Photo 134: Basin D Outlet Channel: January 7, 2016



Photo 135: Basin D Outlet Channel: January 7, 2016



Photo 136: Basin D Outlet Channel: January 7, 2016



Photo 137: Basin D Outlet Channel: January 27, 2016



Photo 138: Basin D Outlet Channel: January 27, 2016



Photo 139: Basin D Outlet Channel: January 27, 2016



**Photo 140: Edison Pole Site Near County Sage Mitigation Area:
February 24, 2016**



**Photo 141: Edison Pole Site Near County Sage Mitigation Area:
February 24, 2016**



**Photo 142: Edison Pole Site Near County Sage Mitigation Area:
February 24, 2016**



**Photo 143: Edison Pole Site Near County Sage Mitigation Area:
February 24, 2016**



**Photo 144: Edison Pole Site Near County Sage Mitigation Area:
February 24, 2016**



**Photo 145: Edison Pole Site Near County Sage Mitigation Area:
February 24, 2016**



Photo 146: Edison Pole Site Near Basin D Outlet: March 9, 2016



Photo 147: Edison Pole Site Near Basin D Outlet: March 9, 2016



Photo 148: Edison Pole Site Near Basin D Outlet: March 9, 2016



Photo 149: Edison Pole Site Near Basin D Outlet: March 9, 2016



Photo 150: Edison Pole Site Near Basin D Outlet: March 9, 2016



Photo 151: Edison Pole Site Near Basin D Outlet: March 9, 2016



Photo 152: Edison Pole Site Near Basin D Outlet: March 9, 2016



Photo 153: Edison Pole Site Near Basin D Outlet: March 23, 2016



Photo 154: Edison Pole Site Near Basin D Outlet: March 23, 2016



Photo 155: Edison Poles in Material Storage Area: March 9, 2016



Photo 156: 35 Flare 9 & 10 Portable Generator: January 27, 2016



Photo 157: Flare 8 Vacuum Leak: January 27, 2016



Photo 158: Flare 8 Vacuum Leak: January 27, 2016



Photo 159: County Top Deck: January 7, 2016



Photo 160: County Top Deck: January 7, 2016



Photo 161: County Top Deck: January 7, 2016



Photo 162: County Top Deck: January 7, 2016



Photo 163: County Top Deck: January 7, 2016



Photo 164: County Top Deck: January 27, 2016



Photo 165: County Top Deck: January 27, 2016



Photo 166: County Top Deck: January 27, 2016



Photo 167: County Top Deck: January 27, 2016



Photo 168: County Top Deck: January 27, 2016



Photo 169: County Top Deck: January 27, 2016



Photo 170: Basin B: January 27, 2016



Photo 171: County Top Deck: February 24, 2016



Photo 172: County Top Deck: February 24, 2016



Photo 173: County Top Deck: February 24, 2016



Photo 174: Site County Top Deck: March 23, 2016



Photo 175: Site County Top Deck: March 23, 2016



Photo 176: Site County Top Deck: March 23, 2016



Photo 177: Site County Top Deck: March 23, 2016



Photo 178: Site County Top Deck: March 23, 2016



Photo 179: Site County Top Deck: March 23, 2016



Photo 180: Site County Top Deck: March 23, 2016



Photo 181: Inlet to Basin B: January 7, 2016



Photo 182: Basin B: January 7, 2016



Photo 183: Basin B: January 7, 2016



Photo 184: Basin B: January 7, 2016



Photo 185: Basin B: January 7, 2016



Photo 186: Basin B: January 7, 2016



Photo 187: Basin B Native Hillside: January 7, 2016



Photo 188: Basin B Native Hillside: January 7, 2016



Photo 189: Basin B Native Hillside: January 7, 2016



Photo 190: Basin B: January 27, 2016



Photo 191: Basin B: January 27, 2016



Photo 192: Basin B: January 27, 2016



Photo 193: Basin B Native Hillside: January 27, 2016



Photo 194: Basin B Native Hillside: January 27, 2016



Photo 195: Basin B Native Hillside: January 27, 2016



Photo 196: Basin B Native Hillside: January 27, 2016



Photo 197: Basin B: March 9, 2016



Photo 198: Basin B: March 9, 2016



Photo 199: Basin B Outlet: March 9, 2016

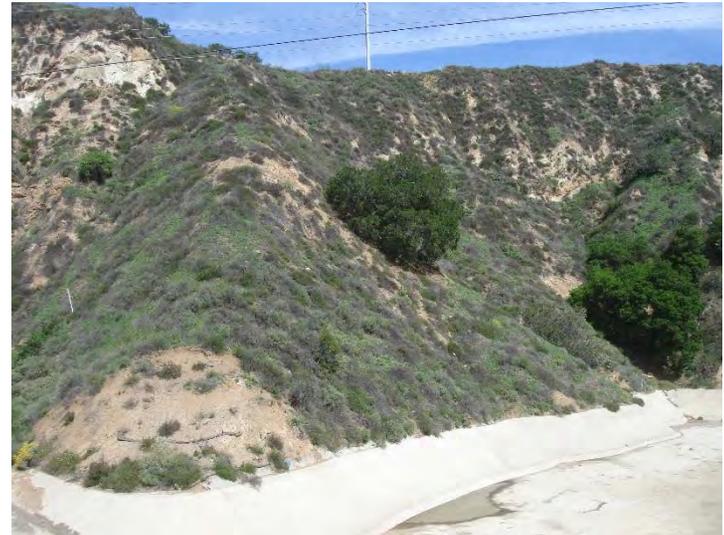


Photo 200: Basin B Native Hillside: March 9, 2016



Photo 201: Basin B Native Hillside: March 9, 2016



Photo 202: Basin B Native Hillside: March 9, 2016



Photo 203: Basin B: March 23, 2016



Photo 204: Basin B: March 23, 2016



Photo 205: Basin B: March 23, 2016



Photo 206: Terminal Basin: January 7, 2016



Photo 207: Terminal Basin: January 7, 2016



Photo 208: Terminal Basin: January 7, 2016



Photo 209: Terminal Basin: January 7, 2016



Photo 210: Terminal Basin: January 7, 2016



Photo 211: Terminal Basin: January 7, 2016



Photo 212: Terminal Basin: January 7, 2016



Photo 213: Terminal Basin: January 7, 2016



Photo 214: Terminal Basin: January 7, 2016



Photo 215: Terminal Basin: January 7, 2016

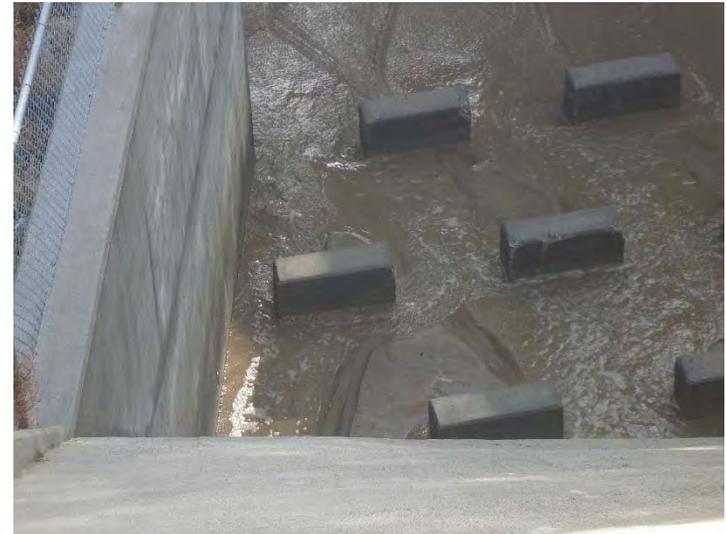


Photo 216: Terminal Basin: January 7, 2016



Photo 217: Terminal Basin: January 7, 2016



Photo 218: Terminal Basin: January 7, 2016



Photo 219: Drainage into Terminal Basin: January 7, 2016



Photo 220 Drainage into Terminal Basin: January 7, 2016



Photo 221: Drainage into Terminal Basin: January 7, 2016



Photo 222: Drainage into Terminal Basin: January 7, 2016



Photo 223: Drainage into Terminal Basin: January 7, 2016



Photo 224: Drainage into Terminal Basin: January 7, 2016



Photo 225: Drainage into Terminal Basin: January 7, 2016



Photo 226: Drainage into Terminal Basin: January 7, 2016



Photo 227: Drainage into Terminal Basin: January 7, 2016



Photo 228: Terminal Basin: January 27, 2016



Photo 229: Terminal Basin: January 27, 2016



Photo 230: Terminal Basin: January 27, 2016



Photo 231: Terminal Basin: January 27, 2016



Photo 232: Terminal Basin: January 27, 2016



Photo 233: Terminal Basin: January 27, 2016



Photo 234: Terminal Basin: January 27, 2016



Photo 235: Terminal Basin: January 27, 2016



Photo 236: Terminal Basin: January 27, 2016



Photo 237: Terminal Basin: January 27, 2016



Photo 238: Terminal Basin: January 27, 2016



Photo 239: Terminal Basin: February 24, 2016



Photo 240: Terminal Basin: February 24, 2016



Photo 241: Terminal Basin: February 24, 2016



Photo 242: Terminal Basin: February 24, 2016



Photo 243: Terminal Basin: February 24, 2016



Photo 244: Terminal Basin: February 24, 2016



Photo 245: Terminal Basin: February 24, 2016



Photo 246: Terminal Basin: February 24, 2016



Photo 247: Terminal Basin: March 9, 2016



Photo 248: Terminal Basin: March 9, 2016



Photo 249: Terminal Basin: March 9, 2016



Photo 250: Terminal Basin: March 9, 2016



Photo 251: Drainage into Terminal Basin: March 9, 2016



Photo 252: Terminal Basin Inlet: March 23, 2016



Photo 253: Terminal Basin: March 23, 2016



Photo 254: Terminal Basin: March 23, 2016



Photo 255: Terminal Basin: March 23, 2016



Photo 256: Terminal Basin: March 23, 2016



Photo 257: Terminal Basin: March 23, 2016



Photo 258: City Cell CC3B Construction: January 7, 2016



Photo 259: City Cell CC3B Construction: January 7, 2016



Photo 260: City Cell CC3B Construction: January 7, 2016



Photo 261: City Cell CC3B Construction: January 7, 2016



Photo 262: City Cell CC3B Construction: January 7, 2016



Photo 263: City Cell CC3B Construction: January 7, 2016



Photo 264: City Cell CC3B Construction: January 7, 2016



Photo 265: City Cell CC3B Construction: January 7, 2016



Photo 266: City Cell CC3B Construction: January 7, 2016



Photo 267: City Cell CC3B Construction: January 7, 2016



Photo 268: City Cell CC3B Construction: January 27, 2016



Photo 269: City Cell CC3B Construction: January 27, 2016



Photo 270: City Cell CC3B Construction: January 27, 2016



Photo 271: City Cell CC3B Construction: January 27, 2016



Photo 272: City Cell CC3B Construction: January 27, 2016



Photo 273: City Cell CC3B Construction: January 27, 2016



Photo 274: City Cell CC3B Construction: January 27, 2016



Photo 275: City Cell CC3B Construction: January 27, 2016



Photo 276: City Cell CC3B Construction: January 27, 2016



Photo 277: City Cell CC3B Construction: January 27, 2016



Photo 278: City Cell CC3B Construction: January 27, 2016



Photo 279: City Cell CC3B Construction: January 27, 2016



Photo 280: City Cell CC3B Construction: January 27, 2016



Photo 281: City Cell CC3B Construction: January 27, 2016



Photo 282: City Cell CC3B Construction: February 24, 2016



Photo 283: City Cell CC3B Construction: February 24, 2016



Photo 284: City Cell CC3B Construction: February 24, 2016



Photo 285: City Cell CC3B Construction: February 24, 2016



Photo 286: City Cell CC3B Construction: February 24, 2016



Photo 287: City Cell CC3B Construction: February 24, 2016



Photo 288: City Cell CC3B: March 9, 2016



Photo 289: City Cell CC3B: March 9, 2016



Photo 290: City Cell CC3B: March 9, 2016



Photo 291: City Cell CC3B: March 23, 2016



Photo 292: City Cell CC3B: March 23, 2016



Photo 293: City Cell CC3B: March 23, 2016



Photo 294: City Cell CC3B: March 23, 2016



Photo 295: City Cell CC3B: March 23, 2016



Photo 296: City Cell CC3B: March 23, 2016



Photo 297: City Cell CC3B: March 23, 2016



Photo 298: City Cell CC3B Slope Litter: March 23, 2016



Photo 299: City Cell CC3B Slope Litter: March 23, 2016



Photo 300: City Cell CC3B Slope Litter: March 23, 2016



Photo 301: City South Access Road Drainage Control: January 7, 2016



Photo 302: City South Access Road Drainage Control: January 7, 2016



Photo 303: City South Access Road Drainage Control: January 7, 2016



Photo 304: City South Access Road Drainage Control: January 7, 2016



Photo 305: City South Access Road Drainage Control: January 7, 2016



Photo 306: City South Access Road Drainage Control: January 7, 2016



Photo 307: City South Access Road Drainage Control: January 7, 2016



Photo 308: City South Access Road Drainage Control: January 7, 2016



Photo 309: City South Access Road Drainage Control: January 7, 2016



Photo 310: Main Access Road: January 27, 2016



Photo 311: Main Access Road: January 27, 2016



Photo 312: Main Access Road: January 27, 2016



Photo 313: Main Access Road: January 27, 2016



Photo 314: Main Access Road: January 27, 2016



Photo 315: Main Access Road: January 27, 2016



Photo 316: Main Access Road: January 27, 2016



Photo 317: Main Access Road: January 27, 2016



Photo 318: Main Access Road: January 27, 2016



Photo 319: Main Access Road: January 27, 2016



Photo 320: Main Access Road: January 27, 2016



Photo 321: Main Access Road: March 23, 2016



Photo 322: Main Access Road: March 23, 2016



Photo 323: Main Access Road: March 23, 2016



Photo 324: Main Access Road: March 23, 2016



Photo 325: Main Access Road: March 23, 2016



Photo 326: Main Access Road: March 23, 2016



Photo 327: Main Access Road: March 23, 2016



Photo 328: Main Access Road: March 23, 2016



Photo 329: Main Access Road: March 23, 2016



Photo 330: County South Slope Drainage Failure: January 27, 2016



Photo 331: County South Slope Inert Waste Exposed: January 27, 2016



Photo 332: County South Slope Inert Waste Exposed: January 27, 2016



Photo 333: County South Slope Inert Waste Exposed: January 27, 2016



Photo 334: County South Slope Inert Waste Exposed: January 27, 2016



Photo 335: County South Slope Inert Waste Exposed: January 27, 2016



Photo 336: County South Slope Erosion Control: January 27, 2016



Photo 337: County South Slope Erosion Control: January 27, 2016



Photo 338: County South Slope Erosion Control: January 27, 2016



Photo 339: City Slope Erosion Control: January 27, 2016



Photo 340: City Slope Erosion Control: January 27, 2016



Photo 341: City Slope Erosion Control: January 27, 2016



Photo 342: City Slope Erosion Control: January 27, 2016



Photo 343: City Slope Erosion Control: January 27, 2016



Photo 344: City Slope Erosion Control: January 27, 2016



Photo 345: City Slope Erosion Control: January 27, 2016



Photo 347: City Slope Erosion Control: January 27, 2016



Photo 346: City Slope Erosion Control: January 27, 2016



**Photo 348: County South Facing Slope, Inert Waste Exposed:
February 24, 2016**



**Photo 349: County South Facing Slope, Inert Waste Exposed:
February 24, 2016**



**Photo 350: County South Facing Slope, Inert Waste Exposed:
February 24, 2016**



**Photo 351: County South Facing Slope, Inert Waste Exposed:
February 24, 2016**



Photo 352: Localized Condensate Odor: February 24, 2016



Photo 353: Localized Condensate Odor February 24, 2016



Photo 354: City Slope Erosion: February 24, 2016



Photo 355: City Slope Erosion, Inert Waste Exposed: February 24, 2016



Photo 356: City Slope Erosion, Inert Waste Exposed: February 24, 2016



Photo 357: City Slope Erosion, Inert Waste Exposed: February 24, 2016



Photo 358: City Slope Erosion, Inert Waste Exposed: February 24, 2016



Photo 359: City Slope Erosion Repair, Inert Waste Exposed: February 24, 2016



Photo 360: City Slope Erosion Control: February 24, 2016



Photo 361: City Slope Erosion Control: February 24, 2016



Photo 362: City Slope Erosion Control: February 24, 2016

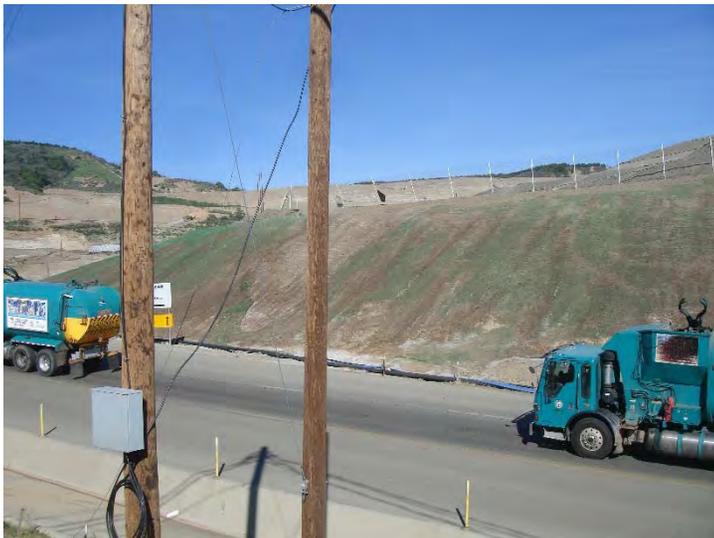


Photo 363: City Slope Erosion Control: February 24, 2016



Photo 364: City Slope Erosion Control: February 24, 2016



Photo 365: Ponding on City Top Deck: March 9, 2016



Photo 366: Ponding on City Top Deck: March 9, 2016



Photo 367: Ponding on City Top Deck: March 9, 2016



Photo 368: Old City South Slopes: March 23, 2016



Photo 369: Old City South Slopes: March 23, 2016



Photo 370: Old City South Slopes: March 23, 2016



Photo 371: City Sage Mitigation Deck C: January 7, 2016



Photo 372: City Sage Mitigation Deck C: January 7, 2016



Photo 373: City Sage Mitigation Deck C: January 7, 2016



Photo 374: City Sage Mitigation Deck C: January 7, 2016



Photo 375: City Sage Mitigation Deck C: January 7, 2016



Photo 376: City Sage Mitigation Deck C: January 7, 2016



Photo 377: City Sage Mitigation Deck C: January 7, 2016



Photo 378: City Sage Mitigation Deck C: January 7, 2016



Photo 379: City Sage Mitigation Deck C: January 7, 2016



Photo 380: City Sage Mitigation Deck C: January 7, 2016



Photo 381: City PM-10 Mitigation Deck C: January 7, 2016



Photo 382: City PM-10 Mitigation Deck C: January 7, 2016



Photo 383: City PM-10 Mitigation Deck C: January 7, 2016



Photo 384: City PM-10 Mitigation Deck C: January 7, 2016



Photo 385: City PM-10 Mitigation Deck C: January 7, 2016



Photo 386: City Sage Mitigation Deck C: March 9, 2016



Photo 387: City Sage Mitigation Deck C: March 9, 2016



Photo 388: City Sage Mitigation Deck C: March 9, 2016



Photo 389: City Sage Mitigation Deck C: March 9, 2016



Photo 390: City Sage Mitigation Deck C: March 9, 2016



Photo 391: City Sage Mitigation Deck C: March 9, 2016



Photo 392: City Sage Mitigation Deck C: March 9, 2016



Photo 393: City Sage Mitigation Deck C: March 9, 2016



Photo 394: City PM-10 Mitigation Deck C: March 9, 2016



Photo 395: City PM-10 Mitigation Deck C: March 9, 2016



Photo 396: City PM-10 Mitigation Deck C: March 9, 2016



Photo 397: City PM-10 Mitigation Deck C: March 9, 2016



Photo 398: City Mitigation Deck C: March 23, 2016



Photo 399: City Mitigation Deck C: March 23, 2016



Photo 400: City Mitigation Deck C: March 23, 2016



Photo 401: City Mitigation Deck C: March 23, 2016



Photo 402: City Mitigation Deck C: March 23, 2016



Photo 403: City Mitigation Deck C: March 23, 2016



Photo 404: City Deck B: January 7, 2016



Photo 405: City Deck B: January 7, 2016



Photo 406: City Deck B: January 7, 2016



Photo 407: City Mitigation Deck B: March 9, 2016



Photo 408: City Mitigation Deck B: March 9, 2016



Photo 409: City Mitigation Deck B: March 9, 2016



Photo 410: City Mitigation Deck B: March 9, 2016



Photo 411: City Mitigation Deck B: March 9, 2016



Photo 412: City Mitigation Deck B: March 9, 2016



Photo 413: City Deck B Drainage Channel: March 9, 2016



Photo 414: City Mitigation Deck A: March 9, 2016



Photo 415: City Mitigation Deck A: March 9, 2016



Photo 416: City Mitigation Deck A: March 9, 2016



Photo 417: City Mitigation Deck A: March 9, 2016



Photo 418: City Mitigation Deck A: March 9, 2016



Photo 419: City Mitigation Deck A: March 23, 2016



Photo 420: City Mitigation Deck A: March 23, 2016



Photo 421: City Mitigation Deck A: March 23, 2016



Photo 422: City Mitigation Deck A: March 23, 2016



Photo 423: Oak Mitigation Trees Near Oil Field Road: February 24, 2016



Photo 424: Oak Mitigation Trees Near Oil Field Road: February 24, 2016



Photo 425: Oak Mitigation Trees Near Oil Field Road: February 24, 2016



Photo 426: Oak Mitigation Trees Near Oil Field Road: February 24, 2016



Photo 427: Oak Mitigation Trees Near Oil Field Road: February 24, 2016



Photo 428: County Sage Area: January 27, 2016



Photo 429: County Sage Area: January 27, 2016



Photo 430: County Sage Area: January 27, 2016



Photo 431: County Sage Area: January 27, 2016



Photo 432: County Sage Area: January 27, 2016



Photo 433: County Sage Area: January 27, 2016



Photo 434: County Sage Mitigation Area: February 24, 2016



Photo 435: County Sage Mitigation Area: February 24, 2016



Photo 436: County Sage Mitigation Area: February 24, 2016



Photo 437: County Sage Mitigation Area: February 24, 2016



Photo 438: County Sage Mitigation Area: February 24, 2016



Photo 439: County Sage Mitigation Area: February 24, 2016



Photo 440: County Sage Mitigation Area: February 24, 2016



Photo 441: County Sage Mitigation Area: February 24, 2016



Photo 442: County Sage Mitigation Area: February 24, 2016



Photo 443: County Sage Mitigation Area: February 24, 2016



Photo 444: County Sage Mitigation Area: February 24, 2016



Photo 445: County Sage Mitigation Area: February 24, 2016



Photo 446: County Sage Mitigation Area: February 24, 2016



Photo 447: County Sage Mitigation Area: February 24, 2016



Photo 448: County Sage Mitigation Area: February 24, 2016



Photo 449: County Sage Mitigation Area: February 24, 2016



Photo 450: County Sage Mitigation Area: February 24, 2016



Photo 451: County Sage Mitigation Area: February 24, 2016



Photo 452: County Sage Mitigation Area: February 24, 2016



Photo 453: County Sage Mitigation Area: February 24, 2016



Photo 454: County Sage Mitigation Area: February 24, 2016



Photo 455: County Sage Mitigation Area: February 24, 2016



Photo 456: County Sage Mitigation Area: February 24, 2016



Photo 457: County Sage Mitigation Area: February 24, 2016



Photo 458: County Sage Mitigation Area: February 24, 2016



Photo 459: County Sage Mitigation Area: February 24, 2016



Photo 460: County Sage Mitigation Area: February 24, 2016



Photo 461: County Sage Mitigation Area: February 24, 2016



Photo 462: County Sage Mitigation Area: February 24, 2016



Photo 463: County Sage Mitigation Area: February 24, 2016



Photo 464: County Sage Mitigation Area: February 24, 2016



Photo 465: County Sage Mitigation Area: February 24, 2016



Photo 467: County Sage Mitigation Area: February 24, 2016



Photo 466: County Sage Mitigation Area: February 24, 2016



Photo 468: County Sage Mitigation Area: February 24, 2016



Photo 469: County Sage Mitigation Area: February 24, 2016



Photo 470: County Sage Mitigation Area: February 24, 2016



Photo 471: County Sage Mitigation Area: February 24, 2016



Photo 472: County Sage Mitigation Area: February 24, 2016



Photo 473: County Sage Mitigation Area: February 24, 2016



Photo 475: County Sage Mitigation Area: February 24, 2016



Photo 474: County Sage Mitigation Area: February 24, 2016



Photo 476: County Sage Mitigation Area: February 24, 2016



Photo 477: County Sage Mitigation Area: February 24, 2016



Photo 478: County Sage Mitigation Area: February 24, 2016



Photo 479: County Sage Mitigation Area: February 24, 2016



Photo 480: County Sage Mitigation Area: February 24, 2016



Photo 481: County Sage Mitigation Area: February 24, 2016



Photo 482: County Sage Mitigation Area: February 24, 2016



Photo 483: County Sage Mitigation Area: February 24, 2016



Photo 484: County Sage Mitigation Area: February 24, 2016



Photo 485: County Sage Mitigation Area: February 24, 2016



Photo 486: Big Cone Fir Mitigation Area: January 27, 2016



Photo 487: Big Cone Fir Mitigation Area: January 27, 2016



Photo 488: Big Cone Fir Mitigation Area: January 27, 2016



Photo 489: Big Cone Fir Mitigation Area: January 27, 2016



Photo 490: Big Cone Fir Mitigation Area: January 27, 2016



Photo 491: Big Cone Fir Mitigation Area: January 27, 2016



Photo 492: Oil Field Locked Gate: February 24, 2016



Photo 493: New Facility Water Tank: March 9, 2016



Photo 494: New Facility Water Tank: March 9, 2016



Photo 495: Flare 1 Blower: March 23, 2016



Photo 496: Leachate Treatment Facility: February 24, 2016



Photo 497: Leachate Treatment Facility: February 24, 2016



Photo 498: Leachate Treatment Facility: February 24, 2016



Photo 499: Leachate Treatment Facility: February 24, 2016



Photo 500: Leachate Treatment Facility: February 24, 2016



Photo 501: Leachate Treatment Facility: February 24, 2016



Photo 502: Leachate Treatment Facility: March 9, 2016



Photo 503: Leachate Treatment Facility: March 9, 2016



Photo 504: Leachate Treatment Facility: March 9, 2016



Photo 505: Leachate Treatment Facility: March 9, 2016



Photo 506: Gray Water Treatment & Handling Facility: March 9, 2016



Photo 507: Gray Water Treatment & Handling Facility: March 9, 2016



Photo 508: Sewer Deep Well Pump Area: March 9, 2016



Photo 509: Sewer Deep Well Pump Area: March 9, 2016



Photo 510: San Fernando Road Near I-5 Overpass: March 9, 2016



**Photo 511: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 512: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 513: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 514: Soil in Front of Frontage Retaining Wall on San
Fernando Road: January 27, 2016**



**Photo 515: Mud in San Fernando Road Acceleration Lane: January
27, 2016**



**Photo 516: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 517: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 518: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 519: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 520: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 521: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 522: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 523: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 524: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 525: Frontage Retaining Wall on San Fernando Road:
January 27, 2016**



**Photo 526: Frontage Retaining Wall on San Fernando Road:
February 24, 2016**



**Photo 527: Frontage Retaining Wall on San Fernando Road:
March 23, 2016**



**Photo 528: Frontage Retaining Wall on San Fernando Road:
March 23, 2016**



Photo 529: Frontage Retaining Wall Slope on San Fernando Road: March 23, 2016



Photo 530: Frontage Retaining Wall Slope on San Fernando Road: March 23, 2016



Photo 531: Frontage Retaining Wall Slope on San Fernando Road: March 23, 2016



Photo 532: Graffiti Frontage Wall on San Fernando Road: January 27, 2016



Photo 533: Frontage Wall on San Fernando Road Graffiti: March 23, 2016



Photo 534: San Fernando Road near I-5 Overpass: January 27, 2016



Photo 535: San Fernando Road near I-5 Overpass: January 27, 2016



Photo 536: San Fernando Road near I-5 Overpass: January 27, 2016



Photo 537: San Fernando Road near I-5 Overpass: January 27, 2016



Photo 538: San Fernando Road near I-5 Overpass: January 27, 2016



Photo 539: San Fernando Road near I-5 Overpass: January 27, 2016



Photo 540: San Fernando Road near I-5 Overpass: January 27, 2016



Photo 541: San Fernando Road near I-5 Overpass: January 27, 2016



Photo 542: San Fernando Road near I-5 Overpass: January 27, 2016



Photo 543: San Fernando Road Near Jensen Water Plant: January 27, 2016



Photo 544: San Fernando Road Near Jensen Water Plant: January 27, 2016



Photo 545: San Fernando Road Near I-5 Overpass: February 24, 2016



Photo 546: San Fernando Road Near I-5 Overpass: February 24, 2016



Photo 547: San Fernando Road Near I-5 Overpass: February 24, 2016



Photo 548: San Fernando Road Near I-5 Overpass: February 24, 2016



Photo 549: San Fernando Road Near I-5 Overpass: February 24, 2016



Photo 550: San Fernando Road Near I-5 Overpass: February 24, 2016



Photo 551: San Fernando Road Near I-5 Overpass: February 24, 2016



Photo 552: San Fernando Road Near I-5 Overpass: March 9, 2016



Photo 553: San Fernando Road Near I-5 Overpass: March 9, 2016



Photo 554: San Fernando Road Near I-5 Overpass: March 9, 2016



Photo 555: San Fernando Road Near I-5 Overpass: March 9, 2016



Photo 556: San Fernando Road Near I-5 Overpass: March 9, 2016



Photo 557: San Fernando Road Near I-5 Overpass: March 23, 2016



Photo 558: San Fernando Road Near I-5 Overpass: March 23, 2016



Photo 559: San Fernando Road Near I-5 Overpass: March 23, 2016



Photo 560: San Fernando Road Near I-5 Overpass: March 23, 2016



Photo 561: San Fernando Road Near I-5 Overpass: March 23, 2016



Photo 562: San Fernando Road Near I-5 Overpass: March 23, 2016



Photo 563: San Fernando Road Near I-5 Overpass: March 23, 2016



Photo 564: San Fernando Road Near I-5 Overpass: March 9, 2016



Photo 565: Greenwaste Odor Source: January 27, 2016



Photo 566: Greenwaste Odor Source: January 27, 2016



Photo 567: Site Scale Facilities: January 7, 2016



Photo 568: Site Scale Facilities: January 7, 2016



Photo 569: Haul Road to Working Face: January 7, 2016



Photo 570: Haul Road to Working Face: January 7, 2016



Photo 571: Haul Road to Working Face: January 7, 2016



Photo 572: Haul Road to Working Face: January 7, 2016



Photo 573: Haul Road to Working Face: January 7, 2016



Photo 574: Haul Road to Working Face: January 7, 2016



Photo 575: Haul Road to Working Face: January 7, 2016



Photo 576: Haul Road Liquids Odor Area: January 27, 2016



Photo 577: Haul Road Liquids Odor Area: January 27, 2016



Photo 578: Haul Road Liquids Odor Area: January 27, 2016



Photo 579: Haul Road Liquids Odor Area: January 27, 2016



Photo 580: Haul Road Liquids Odor Area: January 27, 2016



Photo 581: Haul Road Liquids Odor Area: January 27, 2016



Photo 582: Haul Road Liquids Odor Area: January 27, 2016



Photo 583: Site Working Area 800am Haul Road: March 23, 2016



Photo 584: Site Working Area 800am Haul Road: March 9, 2016



Photo 585: Site Working Area 800am Haul Road: March 23, 2016



Photo 586: Site Working Area 1000 AM: January 7, 2016



Photo 587: Site Working Area 1000 AM: January 7, 2016



Photo 588: Site Working Area 1000 AM: January 7, 2016



Photo 589: Site Working Area 1000 AM: January 7, 2016



Photo 590: Site Working Area 1000 AM: January 7, 2016



Photo 591: Site Working Area 1100 am: January 7, 2016



Photo 592: Site Working Area 1100 am: January 7, 2016



Photo 593: Site Working Area 1100 am: January 7, 2016



Photo 594: Site Working Area 1100 am: January 7, 2016



Photo 595: Site Working Area 1100 am: January 7, 2016



Photo 596: Site Working Area 1100 am: January 7, 2016



Photo 597: Site Working Area 200 pm: January 7, 2016



Photo 598: Site Working Area 2:00 pm: January 7, 2016



Photo 599: Site Working Area 200 pm: January 7, 2016



Photo 600: Site Working Area 2:00 pm: January 7, 2016



Photo 601: Site Working Area 830-930 am: January 27, 2016



Photo 602: Site Working Area 830-930 am: January 27, 2016



Photo 603: Site Working Area 830-930 am: January 27, 2016



Photo 604: Site Working Area 830-930 am: January 27, 2016



Photo 605: Site Working Area 830-930 am: January 27, 2016



Photo 606: Site Working Area 830-930 am: January 27, 2016



Photo 607: Site Working Area 830-930 am: January 27, 2016



Photo 608: Site Working Area 830-930 am: January 27, 2016



Photo 609: Site Working Area 830-930 am: January 27, 2016



Photo 610: Site Working Area 830-930 am: January 27, 2016



Photo 611: Site Working Area 830-930 am: January 27, 2016



Photo 612: Site Working Area 830-930 am: January 27, 2016



Photo 613: Site Working Area 830-930 am: January 27, 2016



Photo 614: Site Working Area 830-930 am: January 27, 2016



Photo 615: Site Working Area 830-930 am: January 27, 2016



Photo 616: Site Working Area 830-930 am: January 27, 2016



Photo 617: Site Working Area 830-930 am: January 27, 2016



Photo 618: Site Working Area 830-930 am: January 27, 2016



Photo 619: Site Working Area 830-930 am: January 27, 2016



Photo 620: Site Working Area 830-930 am: January 27, 2016



Photo 621: Site Working Area 830-930 am: January 27, 2016



Photo 622: Site Working Area 830-930 am: January 27, 2016



Photo 623: Site Working Area 830-930 am: January 27, 2016



Photo 624: Site Working Area 830-930 am: January 27, 2016



Photo 625: Site Working Area 830-930 am: January 27, 2016



Photo 626: Site Working Area 830-930 am: January 27, 2016



Photo 627: Site Working Area 12 noon: January 27, 2016



Photo 628: Site Working Area 12 noon: January 27, 2016



Photo 629: Site Working Area 12 noon: January 27, 2016



Photo 630: Site Working Area 200 pm: January 27, 2016



Photo 631: Site Working Area 200 pm: January 27, 2016



Photo 632: Site Working Area 200 pm: January 27, 2016



Photo 633: Site Working Area 200 pm: January 27, 2016



Photo 634: Site Working Area 200 pm: January 27, 2016



Photo 635: Site Working Area 200 pm: January 27, 2016



Photo 636: Site Working Area 200 pm: January 27, 2016



Photo 637: Site Working Area 1100am: February 24, 2016



Photo 638: Site Working Area 1100am: February 24, 2016



Photo 639: Site Working Area 1100am: February 24, 2016



Photo 640: Site Working Area 1100am: February 24, 2016



Photo 641: Site Working Area 1100am: February 24, 2016



Photo 642: Site Working Area 1100am: February 24, 2016



Photo 643: Site Working Area 1200am: February 24, 2016



Photo 644: Site Working Area 1200am: February 24, 2016



Photo 645: Site Working Area 1200am: February 24, 2016



Photo 646: Site Working Area 1200am: February 24, 2016



Photo 647: Site Working Area 1200am: February 24, 2016



Photo 648: Bird Control Team: March 9, 2016



Photo 649: Bird Control Team: March 9, 2016



Photo 650: Site Working Area 1100am: March 9, 2016



Photo 651: Site Working Area 1100am: March 9, 2016



Photo 652: Site Working Area 1100am: March 9, 2016



Photo 653: Site Working Area 1100am: March 9, 2016



Photo 654: Site Working Area 1100am: March 9, 2016



Photo 655: Site Working Area 1100am: March 9, 2016



Photo 656: Site Working Area 1100am: March 9, 2016



Photo 657: Site Working Area 800am: March 23, 2016



Photo 658: Site Working Area 800am: March 23, 2016



Photo 659: Site Working Area 800am: March 23, 2016



Photo 660: Site Working Area 800am: March 23, 2016



Photo 661: Site Working Area 800am: March 23, 2016



Photo 662: Site Working Area 800am: March 23, 2016



Photo 663: Site Working Area 800am: March 23, 2016



Photo 664: Site Working Area 800am: March 23, 2016



Photo 665: Site Working Area 800am: March 23, 2016



Photo 666: Site Working Area 800am: March 23, 2016



Photo 667: Site Working Area 800am: March 23, 2016



Photo 668: Site Working Area 800am: March 23, 2016



Photo 669: Site Working Area 800am: March 23, 2016



Photo 670: Site Working Area 800am: March 23, 2016



Photo 671: Site Working Area 800am: March 23, 2016



Photo 672: Site Working Area 800am: March 23, 2016



Photo 673: Site Working Area 800am: March 23, 2016



Photo 674: Site Working Area 800am: March 23, 2016



Photo 675: Site Working Area 800am: March 23, 2016



Photo 676: Site Working Area 100 pm: March 23, 2016



Photo 677: Site Working Area 100 pm: March 23, 2016



Photo 678: Site Working Area 100 pm: March 23, 2016



Photo 679: Site Working Area 100 pm: March 23, 2016



Photo 680: Site Working Area 100 pm: March 23, 2016



Photo 681: Site Working Area 100 pm: March 23, 2016



Photo 682: Site: January 7, 2016



Photo 683: Site: January 7, 2016



Photo 684: Site: January 7, 2016



Photo 685: Site: January 7, 2016



Photo 686: Site: January 7, 2016



Photo 687: Site: January 7, 2016



Photo 688: Site: January 7, 2016



Photo 689: Site: January 27, 2016



Photo 690: Site: January 27, 2016



Photo 691: Site: January 27, 2016



Photo 692: Site: January 27, 2016



Photo 693: Site: January 27, 2016



Photo 694: Site: January 27, 2016

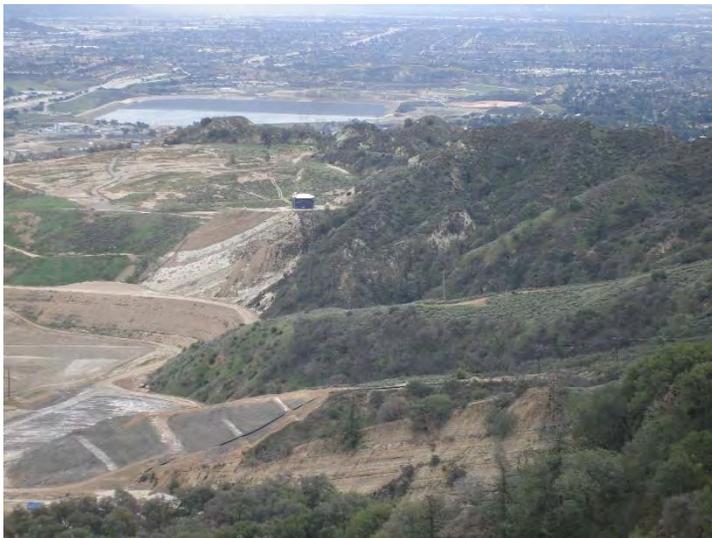


Photo 695: Site: January 27, 2016



Photo 696: Site: January 27, 2016



Photo 697: Site: January 27, 2016



Photo 698: Site: January 27, 2016



Photo 699: Site: January 27, 2016



Photo 700: Site: March 9, 2016



Photo 701: Site: March 9, 2016



Photo 702: Site: March 9, 2016



Photo 703: Site: March 9, 2016



Photo 704: Site: March 9, 2016



Photo 705: Site: March 9, 2016



Photo 706: Site: March 9, 2016



Photo 707: Site: March 9, 2016



Photo 708: Site: March 9, 2016



Photo 709: Site: March 9, 2016



Photo 710: Site: March 9, 2016



Photo 711: Site: March 9, 2016



Photo 712: Site: March 9, 2016



Photo 713: Site: March 9, 2016



Photo 714: Site: March 9, 2016



Photo 715: Site: March 9, 2016



Photo 716: Site: March 9, 2016



Photo 717: Site: March 9, 2016



Photo 718: Site: March 9, 2016



Photo 719: Site: March 9, 2016



Photo 720: Site: March 9, 2016



Photo 721: Site: March 9, 2016



Photo 722: Site: March 9, 2016



Photo 723: Site: March 9, 2016



Photo 724: Site: March 23, 2016



Photo 725: Site: March 23, 2016



Photo 726: Site: March 23, 2016



Photo 727: Site: March 23, 2016



Photo 728: Site: March 23, 2016



Photo 729: Site: March 23, 2016

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 Geology

January Site Visits

January 7, 2016:

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: 1/7/16
Site Conditions: Rainy, then clearing, 50-60°F	
SITE LOG	
<p>Republic Site Manager - Rob Sherman</p> <p>Met with Tarik Hadj-Hamou (SLR) and Mike Lindsay (UltraSystems), and signed in at the office. The monitoring team then proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> • Water and soil was flowing down the slopes in back of the new office location from the native hillsides draining to a bench on the top of the back slope. Improving the drainage in his area should be considered. • The haul road appeared to be working fine with no apparent areas that needed rock for traction and/or safety. A portion of fill material from a roadway bench had slid onto the side of a small section of the road and was being repaired. • Drove the adjacent neighborhood and did not detect any landfill odors. • The drainage systems from offices to the terminal basin were observed and performed well. This was the last day of light rain after a couple of days of heavy rain. Water was being pumped onto the access road and into the lower westside channel from the CC-3A temporary HDPE lined basin. Other hillside drainage was flowing into the westside channel. • The terminal basin had soil-laden water entering the basin. The K-rails stopped the bulk of the soil prior to the outlet risers. The outlet water had deposited soil at the flow retarders before going under San Fernando Road. • The eastside drainage into the terminal basin was performing well with clear water entering the basin. • The temporary HDPE drainage channel from the access road box culverts was washed away by the storm. Deep gullies were observed from the culvert to the terminal basin inlet. <p>Proceeded back to the office at 9:30 to meet with Karlo Manalo and Nam Paon (LACDPW). Had a brief discussion and introduction of the team and LACDPW to Matt Eaton (Republic's Gas Manager), Patti Costa and Ricky Dhupar. The team then continued the site monitoring with LACDPW staff and observed the following:</p> <ul style="list-style-type: none"> • Cell CC-3B had three pumps draining water from the area. A significant amount of soil erosion occurred in the cell construction area. • The jute netting and the drainage channels on the slopes above the access road performed excellently. No erosion was seen. • The slope of the access road had held up well with only minor slope erosion. • The working area was wet but operating safely and efficiently. About half of the ADC was covered by 10:00 a.m. The cold wet weather brought in birds and bird deterrents were being shot. • Basin A had water flowing into the basin and had standing water over the entire basin. The rock around the outlet riser metered the flow out. The outlet channel water was not blocked. The native hillsides were free of litter. 	

Page 2 of 2, 1/7/16:

- There was a temporary basin construction near the old office site which had a significant amount of rainwater.
- The westside drainage channel had water flowing in back of the channel wall. The channel walls and floor continue to worsen in that area.
- The county sage mitigation area had deep rutted erosion which deposited soil in the westside channel. Erosion control is needed.
- Basin D performed well and had only one small ponding area.
- Basin D outlet channel was clean and working well.
- Basin B had some standing water near the outlet risers and a minor amount of sediment.
- Deck C sage mitigation was doing well.

Flare Operating Conditions:

- Flare 1 - 1699°F, 1915 SCFM, -54.66 " vacuum
- Flare 3 - shut down
- Flare 9 - shut down
- Flare 10 - 1644°F, 3050 SCFM, -63.0 " vacuum, 35.7" outlet, 47.3% CH₄

The gas-to-energy plant was operating at full production using 7800 SCFM, 47.3% methane.

Note: The gas meter at the flare control panel read 6645 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 01-07-2016 Thursday
Site Conditions: Mostly Cloudy, 45–54 °F, 3–10 mph, 87% RH, rain	
SITE LOG	
<ol style="list-style-type: none"> 1. Met with Jim Aidukas, Tarik Hadj-Hamou (UltraSystems), and checked into office and with Ricky Dhupar (Republic). 2. Water is running down rain ruts on slope behind Admin buildings. 3. Observed haul trucks driving down steepest part of haul road below working face, steering around a section of roadway with deep, sloughing mud (up to three inches of rain have fallen in the last three days). 4. Standing water in Cell CC-3A is being pumped across haul road, draining into main roadway drainage channel. 5. Met with Karlo Manalo and Nam Doan (LACDPW), and discussed our site monitoring plans with Patti Costa, Ricky Dhupar (Republic) and Mat Eaton (new Republic environmental engineer). 6. Observed working face with tippers and bird abatement, with Alternative Daily Cover (ADC) approximately 40% exposed at 10 AM. 7. Sediment Basin A has standing water from recent rains. 8. Drainage channel for Sediment Basin A has been cleared of soil and pipe, and is draining water. 9. Westside Drainage Channel has concrete cracks and uplifting at known locations. 10. County sage mitigation area slopes have erosion ruts, with sediment accumulating into the westside drainage channel. 11. Sediment Basin D is in good condition, with no standing water. 12. Sediment Basin D north perimeter drainage channel is clear of vegetation and debris. 13. Flare 9 is offline. 14. Flare 10 is operating at 3004 scfm, 1658 °F, with blowers 1, 3 and 4 active. Gas sample measured at 49 % Vol. CH₄, 1.5 % Vol. O₂, 64 ppm H₂S and 370 ppm CO. 15. The gas-to-energy plant is operating at full capacity. 16. Sediment Basin B is in good condition, with some standing water around vertical riser drains due to recent rains. 17. Terminal Basin is in overall good order, with 2–3 feet of accumulated sediment. 18. City Deck C sage mitigation area is growing well. 19. Flare 1 is operating at 1884 scfm and 1699 °F. Gas sample measured at 39 % Vol. CH₄, 0.9 % Vol. O₂, 83 ppm H₂S and 44 ppm CO. 20. Observed overall landfill operations from observation deck, including working face with ADC. 21. Met with Patti Costa (Republic) and Ricky Dhupar to discuss site monitoring observations. 	
FURTHER REVIEW NEEDED	
<ol style="list-style-type: none"> 1. Repair concrete cracks and uplifting along the westside drainage channel. 	
Signed: <i>Michael W. Lindsay</i>	



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT**

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 9
Discipline: Civil – Geotechnical and Hydrology	Date: January 7, 2015
Site Conditions: rainy then clear and sunny	
SITE LOG	
7:00- 7:15 meet with UltraSystems team members Jim Aidukas and Mike Lindsay, sign-up in main office and prepare site visit	
<ul style="list-style-type: none"> • 	
7:15 – 9:15 Initial inspection	
<ul style="list-style-type: none"> • tour the neighborhood to detect potential odors – None • it was the tail end of rainstorm, water still flowing down the main western ditch into the terminal basin, water is clear (Photo 1). A large amount of fines have accumulated in the basin (Photo 2). Source of the fines is runoff from cell CC3B under construction. The temporary lined diversion trench towards the remnants of the 96 inch-culvert draining into the basin failed (Photo 3) and muddy water flew into the basin. The K-rails (Photo 2) in the basin slowed down the muddy water leading to a limited build-out against the risers (Photo 4) 	
9:30 Back to the office to meet with Karlo Manalo and Nam Paon of the LA County Department of Public Work	
9:30 - 2:00 site tour with LADWP personnel	
Observed the following areas: construction area of Cell 3A, waste face, flares 1, and 9-10, drainage systems, erosion protection systems, and overall landfill.	
2:00 – 2:25 Close-out meeting with Republic staff	
Cell CC3B – Part 2	
<ul style="list-style-type: none"> • Because of rainstorm, there was no construction on going. Some damage occurred to the LCRS/operation layer already placed on top of liner. We did not observe any damage to the geomembrane or the anchor trenches 	
Waste face	
<ul style="list-style-type: none"> • No civil or geotechnical issues noted 	
Stability issues	
<ul style="list-style-type: none"> • No slope stability issues were noted during the site tour, some erosion gullies on embankment of access roads but no threat to stability. 	
Erosion Protection systems	
<ul style="list-style-type: none"> • all systems installed at site performed very well namely that installed on the cut slopes above the access road near the entrance to the landfill • few erosion gullies were noted in areas not protected but non that could lead to stability concerns • greatest erosion damage is on slope above the north side drainage ditch as discussed in Drainage System section 	



Flares
<ul style="list-style-type: none"> • No civil or geotechnical issues noted
Drainage system
<ul style="list-style-type: none"> • Basin A: <ul style="list-style-type: none"> – The drainage channel out of basin observed in previous visits to be partially filled up with soil was cleaned and flowing (Photo 5). • Section of channel on west side between Basin A and Basin D previously noted: <ul style="list-style-type: none"> – Bottom slab held well (Photo 6) – Erosion on the cut slope above brought a fair amount of oil in the channel (Photo 7) that will have to be cleaned. • The southern side drainage channel in the canyon at Basin D/boneyard noted in previous visit as blocked was opened (Photo 8) allowing drainage into Basin D • Geomembrane liner on section of drainage channel between basin D and the access road to the Flare 9 and 10: <ul style="list-style-type: none"> – membrane held well during storm – However for long term reliability it is still recommended to <ul style="list-style-type: none"> ○ Attach the geomembrane to the sides of the channel to reduce the risk of underflow (Photo 9). ○ fix the flap at entry to culvert to the shotcrete (Photo 10) • upper portion of channel draining the access road to the power generating station and Flares 9 and 10 should be cleaned prior to next storm (Photo 11) • Basin B (Photo 12): <ul style="list-style-type: none"> – limited amount of fine in basin – the rock check dam around the risers are functioning well in retaining the fines and letting water through • North drainage channel near current staging area for cell CC3B construction on city landfill deck: <ul style="list-style-type: none"> – erosion along the concrete edge should be fixed before next large storm (Photo 13)
FURTHER REVIEW NEEDED
geomembrane uncovered by rainstorm should be inspected prior to repair to LCRS/operation layer at Cell CC3B – Part 2
COMMENTS
Signed:



Photo 1: Water flowing along western channel



Photo 2: Sediments accumulation in terminal basin



Photo 3: Runoff from cell CC3B

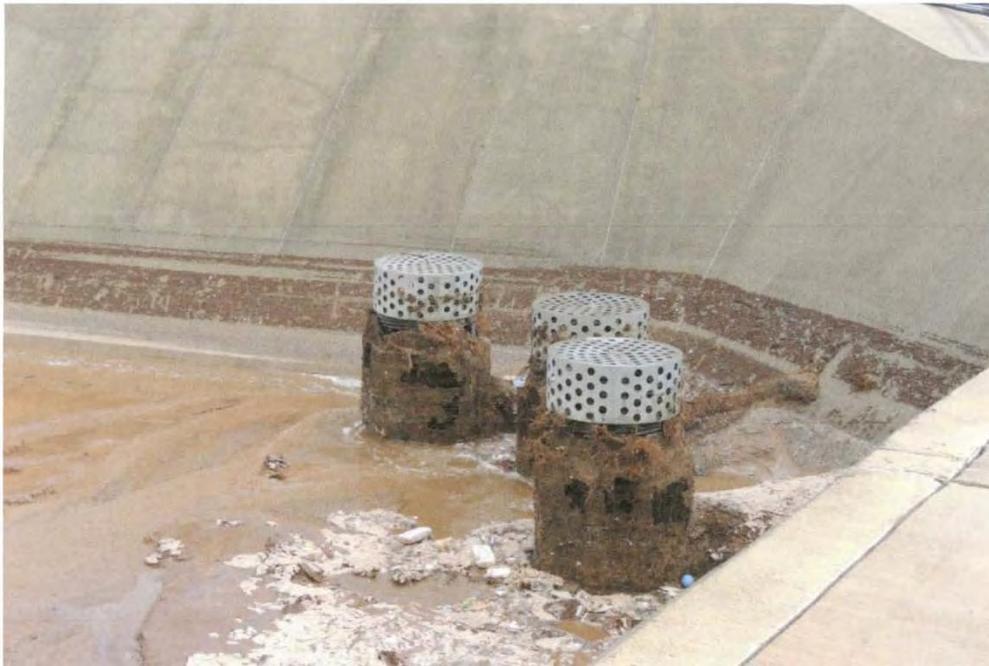


Figure 4: Risers in Terminal Basin



Photo 5: Drainage ditch out of Basin A cleaned and flowing



Photo 6: Channel between Basin A and Basin D



Photo 7: Sediment into channel between Basin A and Basin D



Photo 8: Cleared and opened southern side ditch at Basin D



Photo 9: Geomembrane liner at beginning of lined portion between Basin D and Flare 9-10 access road



Photo 10: Geomembrane liner at entry to culvert near Flare 9-10 access road



Photo 11: Drainage ditch along access road to Flares 9 and 10



Photo 12: Basin D



Photo 13: Erosion along edge of west side drainage channel

January 27, 2016:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 1/27/16
Site Conditions: Clear and sunny, 5-15 mph winds	
SITE LOG	
<p>Republic Site Manager - Rob Sherman</p> <p>Drove the neighborhood prior to arriving at the landfill. No landfill odors were detected. Met with Mike Lindsay (UltraSystems), signed in, and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> • Drove up the haul road to the operating area. Half way up the road there were strong landfill liquids odors coming from the west facing slope of CC-3A near the road turnout. The location of the odor source could not be determined. • The alternate daily cover was being covered and was not affected by the winds. • Exposed trash was observed mixed in with cover soil near the tipper area. It could not be determined if this was from the prior day's operations or at the start of today's operations. • Exposed trash was observed near the top of the County's south-facing slope near cell CC-3A. Soil cover had eroded away in the area. • Observed an increase in illegal dumping on San Fernando Road near the I-5 overpass. More rock and rubble was seen on the south road shoulder. More dumped trash and bulky items were observed under the overpass. Republic does not provide clean-up in this area. • Graffiti was observed on the white block wall south of the entrance near the gas company's meter station. • The frontage retaining wall on San Fernando Road had more soil accumulating against the fence. It was observed that there was some horizontal movement of the blocks where the fence was loaded with soil. • There is a substantial amount of soil in front of the retaining wall. No walking area is present. • Two oak tree above the retaining wall are losing soil around their roots and could fall onto the power lines and San Fernando Road. • The southbound acceleration land out of the landfill had a substantial pile of soil impacting its use. • Sierra Highway near the I-14 overpass was clean and free of litter and illegally dumped material. • Drove the road along the northern boundary of Sunshine Canyon and East and Rice Canyons to the end at Aliso Canyon. No odors from the Gas Company's Aliso Canyon gas leak were detected drifting toward the landfill. • The Big Cone Fir mitigation area was observed and approximately 50% of the trees had water wells dug around the tree trunks and the irrigation piping was repaired and maintained. • Some dead fir trees were observed and the next tree survey should give a tally of the number of mitigation trees surviving and what is required. • The old Flare 8 location had a vacuum leak at the 12" HDPE line. All flare equipment was removed except for the equipment foundations. • The terminal basin had a substantial amount of soil (3-5 feet deposited) from the last rain storms. It looked like material washed from the cell CC-3B construction area. • The old office site had a shark vertebra recovered that was being sent to curators. 	

Page 2 of 2, 1/27/16:

- Basin A had standing water and sediment. The inlet and outlet channel were cleared of any soil blocking flow.
- Basin A hillsides were free of trash.
- The westside drainage channel floor uplifting and sidewall spalling is worsening. Water is flowing behind the westside concrete wall. Repairs are scheduled for after the rains this year.
- Basin D had no observed impacts from the recent rains.
- Basin D outlet channel had a minor amount of tumbleweeds
- The Flare 9 and 10 site had an emergency generator trailer onsite.
- Basin B had a minor amount of standing water and approximately 6-8" of sediment near the outlet rock.
- Cell CC-3B was nearing completion with the final liner soil being placed. RWQCB had approved Cell CC-3B for waste placement.
- The ADC was almost completely covered at 2:00 PM.

Flare Operating Conditions:

- Flare 3 - shut down
- Flare 9 - shut down
- Flare 10 - 1667°F, 3060 SCFM, -64.0 " vacuum, 35.7" outlet, 48.6% CH₄

The gas-to-energy plant was operating at full production using 7912 SCFM, 48.6% methane.

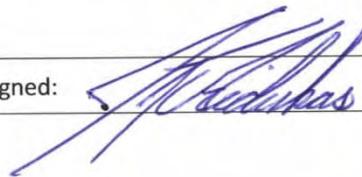
Note: The gas meter at the flare control panel read 6812 SCFM.

Pictures of the site visit can be downloaded from the FTP site. To access it, login at ultrasystems.biz/login.asp using the username user19 and password 0407, SCL Site Photos.

FURTHER REVIEW NEEDED

COMMENTS

Signed:





**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 01-27-2016 Wednesday
Site Conditions: Clear, 52–72 °F, 5–15 mph, 26% RH	
SITE LOG	
<ol style="list-style-type: none"> 1. Met with Jim Aidukas (UltraSystems), and checked into office and with Tyson Ross (Republic). 2. Strong landfill odors were detected at wide turnout apron on working face approach road hill climb (above Cell CC-3A). 3. Alternative Daily Cover (ADC) is holding up well to winds, with approximately 1.5 acres covered, and new trash covering about 30% at 8 AM. 4. Exposed trash is mixed with soil over approximately 0.5 acre area in front of tippers. This exposed trash appears to be from the previous day. 5. Exposed trash is showing on slopes below the south side of the County top deck (above bend in haul road at northeast end of Cell CC-3A). 6. No green waste odors were detected by facilities along Blucher Avenue. 7. No landfill odors were detected in neighborhood adjacent to landfill. 8. Dumped trash and debris is accumulating along San Fernando Road south of landfill entrance. 9. New graffiti is on retaining wall at natural gas odorization station south of landfill entrance. 10. Retaining wall south of landfill entrance is impacted with soil at known locations. 11. Oak trees are hanging over powerlines south of landfill entrance. 12. Sierra Highway is clear of trash and debris. 13. Big cone fir trees are in good condition, with new growth and dark green color. Soil around about half of the trees has been formed to catch water. Besides the big cone fir trees that are growing well, about one dozen are dead. 14. The Flare 8 site has been cleared down to the concrete pad and support pylons. 15. The capped Flare 8 gas pipe stub is hissing with a possible vacuum leak. 16. The Terminal Basin has sediment build-up against the K-rails and vertical riser drains, approximately 2–3 feet deep. 17. Sediment Basin A has some standing water and sediment near riser drains. 18. Sediment Basin A north slopes are clear of wind-blown trash. 19. Sediment Basin A drainage channel is partially blocked by soil and pipe. 20. A paleo monitor is present for excavation work east of Sediment Basin A. 21. Westside drainage channel has concrete cracks and uplifting at known locations. 22. Water trucks are applying water throughout site. 23. Decommissioned condensate tanks are not producing odor. 24. Sediment Basin D is in good order. 25. Flare 9 is offline. 26. Flare 10 is operating at 2932 scfm, 1667 °F, with blowers 1, 3 and 4 active. Gas sample measured at 49 % Vol. CH₄, 1.3 % Vol. O₂, 68 ppm H₂S and 372 ppm CO. 27. The Gas-to-Energy plant is operating at full capacity. 28. Working face has approximately 80% of Alternative Daily Cover (ADC) covered with today's trash at 1:15 PM. 29. The new Cell CC-3B is being graded and lined with fresh dirt. 30. Met with Patti Costa, Ricky Dhupar and Mat Eaton (Republic) to discuss our site monitoring observations. 	



FURTHER REVIEW NEEDED

1. Cover exposed trash in front of tipplers at working face.
2. Cover exposed trash on slopes below the south side of the County top deck.
3. Remove dumped trash and debris along San Fernando Road south of landfill entrance.
4. Remove graffiti on retaining wall at natural gas odorization station south of landfill entrance.
5. Remove impacted soil at retaining wall south of landfill entrance at known locations.
6. Trim or remove oak trees that are hanging over powerlines south of landfill entrance.
7. Repair gas leak at capped Flare 8 pipe stub (probably a vacuum leak).
8. Remove soil and pipe from Sediment Basin A drainage channel.
9. Repair concrete cracks and uplifting along Westside Drainage.

Signed: *Michael W. Lindsay*

February Site Visits

February 24, 2015:

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: 2/24/16
Site Conditions: Clear and sunny, 60-80°F, 10-15 mph winds	
SITE LOG	
<p>Republic Site Manager - Rob Sherman</p> <p>Drove through the neighborhood in early morning, starting at 7:00 a.m. Did not detect any landfill odors. Met with Tarik Hadj-Hamou and Mike Lindsay (UltraSystems) and signed in. The monitoring team then proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> • Drove San Fernando Road south. The Republic litter-patrolled area was free of litter and illegally dumped debris. • The area from San Fernando Road and the I-5 overpass south had illegally dumped construction debris, furniture, tires, and trash piling up adjacent to San Fernando Road. Graffiti was also observed on the overpass. This area is outside of Republic's clean-up zone. • Drove the adjacent Granada Hills neighborhood and did not observe any wind-blown litter nor detect any landfill odors. • Drove San Fernando Road north to Sierra Highway and the I-14 overpass. This area was clean and free of trash and debris. • Observed the leachate treatment facility and noted a localized odor from the equipment within the concrete spill berm. The odor did not drift away from the site. Piles of cut tree branches and brush were noted next to the facility with a drainage channel filled with leaf litter. • The mitigation oak trees along the oil field road were observed and doing well. The native vegetation is coming back. • Both the oak trees and native vegetation growth responded positively to the winter rains. • The south entrance oil field gate was locked. No landfill odors were detected in the oil field area. <p>The monitoring team returned to the landfill office at approximately 10:00 a.m. to meet with Nam Paon (LADPW) who joined us for the rest of the day's monitoring.</p> <ul style="list-style-type: none"> • Drove the working area and observed that approximately 50% of the ADC was covered with the day's waste at approximately 11:00 a.m. • A strong localized odor was detected adjacent to the waste haul road near well #684. The odor smelled like that from condensate or leachate. • Inert waste was seen exposed on the County south-facing slope near the City/County line. Either a settlement or localized sliding of a small amount of deposited material caused outward pushing and uncovering of the inert waste. Republic was notified of this condition. No landfill odors were coming from this area. • The City lined drainage lift area was observed. There were seven empty plastic water containers (approximately 75 gallons each) staged in this area. Flows from seeps coming from the old office area were being collected and discharged into a small lined area before discharging into the main lined drainage lift area. The drainage lift area had standing water in approximately 30% of the area that had not been removed by pumping. • Walked the County Sage Mitigation slopes and benches and observed and photographed areas with and without native and non-native vegetation. 	

Page 2 of 2, 2/24/16:

- The westside drainage channel had the channel floor replaced where it was previously lifting and cracking. The sidewall that was letting water undermine this section was repaired.
- Corrugated metal pipe was being installed in the Basin D outlet drainage channel.
- Cell CC-3B had repairs still in progress to repair impacts from January's and recent rains.
- The retaining wall southeast of the landfill entrance continues to have sloughed soil piled up on top of the wall and against the chain link fence. A tree on top of the slope is losing root soil and poses a hazard to the power line and San Fernando Road.

Met with Republic staff and discussed the site monitoring observations.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 02-24-2016 Wednesday
Site Conditions: Clear, 58–81 °F, 7–18 mph, 22% RH	
SITE LOG	
<ol style="list-style-type: none"> 1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office and with Patti Costa (Republic). 2. No landfill odors were detected in neighborhood and school adjacent to landfill. 3. Dumped trash and debris is accumulating along San Fernando Road south of landfill entrance. 4. Sierra Highway is clear of trash and debris. 5. The oil field is in good order, with locked perimeter gate and no detected odors. 6. Mitigation oak trees above oil field are growing well, with sage growing in understory. Winds measured at 16.2 mph average and 20.8 mph maximum. 7. Leachate facility by landfill entrance is in good order, but with a slight gas odor detected. Small shed had distinct gas odors inside; however, a gas meter measured no appreciable VOCs. 8. Met with Nam Doan (LACDPW). 9. Observed working area with tippers to be in good order. 10. Alternative Daily Cover (ADC) is holding up well to winds, with new trash covering about 50% at 10:15 AM. 11. Strong condensate/ leachate odors were detected at area around Well 684 on working area approach road (above Cell CC-3A). 12. Exposed trash is showing at known location on slopes below the south side of the County top deck (above bend in haul road at northeast end of Cell CC-3A). 13. Observed Cell CC-3A, including seven liquid storage tanks, and standing water at southeast end. 14. Walked throughout the County sage mitigation area, and observed vegetation and irrigation system status. Also observed new wooden stakes with blue and white flags. 15. The westside drainage channel has had its broken concrete floors replaced. 16. Sediment Basin D drainage channel is in good order, and is having 60-inch corrugated metal pipe installed for crossover access to the new SCE powerline pole construction. 17. The new Cell CC-3B continues to be graded and lined with fresh dirt. 18. Terminal Basin has sediment build-up against the K-rails and vertical riser drains, approximately 2–3 feet deep. 19. Retaining wall south of landfill entrance is impacted with soil at known locations. 20. The graffiti has been removed on the retaining wall at natural gas odorization station south of landfill entrance. 21. Water trucks are applying water throughout landfill. 22. Met with Patti Costa and Tyson Ross (Republic) to discuss our site monitoring observations. 	
FURTHER REVIEW NEEDED	
<ol style="list-style-type: none"> 1. Remove dumped trash and debris along San Fernando Road south of landfill entrance. 2. Eliminate odors from area around Well 684. 3. Cover exposed trash on slopes below the south side of the County top deck. 4. Remove impacted soil at retaining wall south of landfill entrance at known locations. 	
Signed: <i>Michael W. Lindsay</i>	



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT**

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 11
Discipline: Civil – Geotechnical and Hydrology	Date: February 24, 2015
Site Conditions: clear, sunny, and windy	
SITE LOG	
7:00- 7:15 meet with UltraSystems team members Jim Aidukas and Mike Lindsay, sign-up in main office and prepare site visit	
7:15 – 9:50 Initial inspection <ul style="list-style-type: none"> • tour the neighborhood to <ul style="list-style-type: none"> ○ detect potential odors – None ○ observe illegal dumping on street – few location noted • inspect leachate treatment plant – no geotechnical engineering issues 	
10:00 Back to the office to meet with Nam Paon of the LA County Department of Public Work (LADPW)	
10:00 - 2:45 site tour with LADPW personnel Observed the following areas: construction area of Cell 3A, waste face, flares 1, and 9-10, drainage systems, erosion protection systems, the coastal sage mitigation are on east facing cut slope above old county deck, the retaining wall along San Fernando Road, and overall landfill. 2:45 – 3:15 Close-out meeting with Republic staff	
Cell CC3B – Part 2 <ul style="list-style-type: none"> • The damage that was noted on January 7 visit following the rainstorm was repaired. 	
Drainage system <ul style="list-style-type: none"> • Basin A: <ul style="list-style-type: none"> – The stone filter around the risers is retaining the fine but is letting most of the water out. Some water and fines remain in basin but the occupied volume has no impact on the capacity of the basin and its ability to drain. • the Damaged section of west channel between Basin A and Basin D commented on during previous visits was repaired: <ul style="list-style-type: none"> – Bottom slab has been replaced (Photo 1) – cracks on the wall should eventually be repaired, but they not present a risk to the integrity of the channel as they do not extend all the way through the shotcrete during flow (Photo 2) • A corrugated steel pipe (CSP) is being laid on portion of the drainage channel between basin D and the access road to the Flare 9 and 10 to provide access to the future power pole. Attention shall be given to backfill and entry point to reduce risk of erosion (Photo 3): • Basin B: <ul style="list-style-type: none"> – limited amount of fine in basin – the rock check dam around the risers is functioning well in retaining the fines and letting water through 	



<ul style="list-style-type: none"> • Terminal basin <ul style="list-style-type: none"> – clean-up operation on-going
<p>Flares</p> <ul style="list-style-type: none"> • No civil or geotechnical issues noted
<p>Erosion</p> <ul style="list-style-type: none"> • Protection systems <ul style="list-style-type: none"> – all systems installed at site generally performed well namely those installed on the cut slopes above the access road near the entrance to the landfill – few erosion gullies were noted in areas not protected but none that could lead to stability concerns • Landfill slopes <ul style="list-style-type: none"> – Deep erosion gullies were observed on the north facing side of currently active Cell II (Photo 4). Close-up observations indicate that the erosion is near refuse (Photo 5)
<p>Stability issues</p> <ul style="list-style-type: none"> • No slope stability issues were noted during the site tour, some erosion gullies on embankment of access roads but no threat to stability. • Inert waste is showing on southeast facing slope of old county landfill (Photo 6). Close-up observation shows a depression and a hump (Photo 7) in the area where the refuse is showing. The area may have settled (waste decomposition?) and sloughed outward pushing and uncovering the waste at the front of the mass that moved. There are no cracks in the cover in the area or other sign of slope distress.
<p>Coastal sage mitigation area</p> <ul style="list-style-type: none"> • the area includes 5 slopes and 4 benches (Photo 8) • the benches are connected with concrete down chutes • the benches are sloped back into the slope to create drainage ditches long the toe of the up-slope • Erosion gullies are present on the bare areas and none on the vegetated areas. it was noted that the base geologic formation is different in the vegetated and non-vegetated areas which may contribute to the difference in behavior • the down chute show some signs of distress <ul style="list-style-type: none"> – cracks where observed but with limited displacements(Photo 9) so the down chute is still functioning – erosion along the edge on the downslopes(Photo 10)
<p>Waste face</p> <ul style="list-style-type: none"> • ADC is holding very well under windy conditions –no rips or pullout at edges. However there is some waste uncovered along the edge (Photo 11). • No civil or geotechnical issues noted



<p>Seep collections</p> <ul style="list-style-type: none"> Flows from the seeps at the excavated face of future cell CCII are collected and properly managed (Photo 12).
<p>Retaining wall along San Fernando Road</p> <ul style="list-style-type: none"> sloughed soil is piling up against the wire fence above the wall and filled up the concrete drainage ditch built on top of wall (Photo 13) a tree at top of slope is leaning dangerously with partially exposed root bulb –its stability should be evaluated as it fell it would take down the pore lien and lead to road blockage (Photo 14)
FURTHER REVIEW NEEDED
COMMENTS
<p>Signed:</p> 



Photo 1: repaired bottom of channel between Basin A and Basin D



Photo 2: Crack on side wall channel between Basin A and Basin D



Photo 3: New CSP between Basin D and access road to Flare 9-10



Figure 4: Erosion gullies on side slope at Cell II



Photo 5: Deep gully on on side slope at Cell II showing refuse



Photo 6: Inert waste showing on southeast facing slope of old county landfill

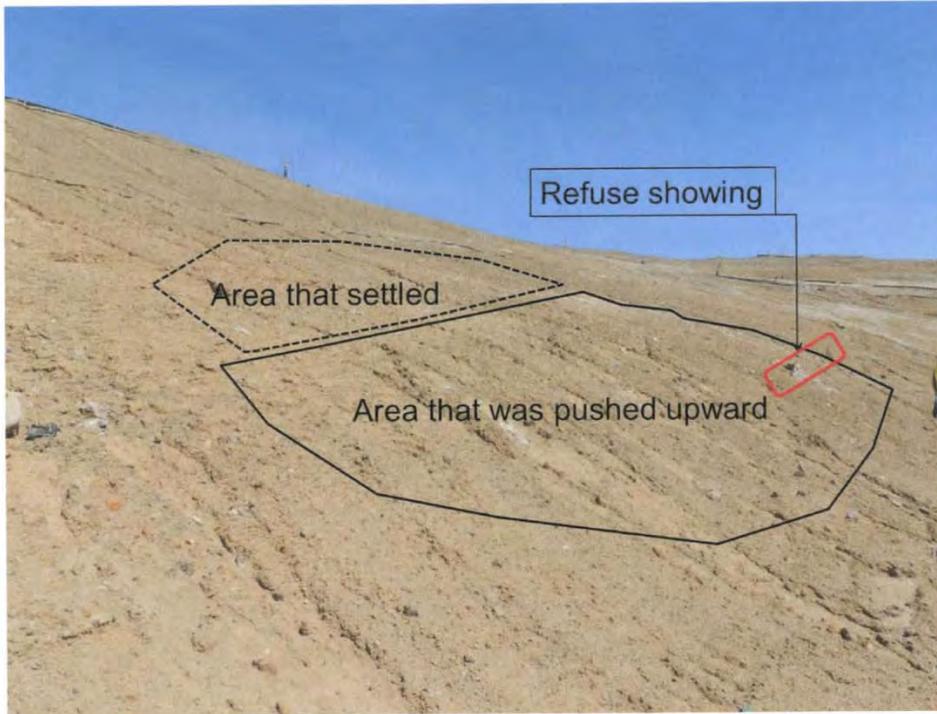


Photo 7: Area where inert waste is showing on southeast facing slope of old county landfill



Photo 8: Overall view of coastal sage mitigation area



Photo 9: Crack in downchute at coastal sage mitigation area



Photo 10: Erosion along edge of downchute at coastal sage mitigation area

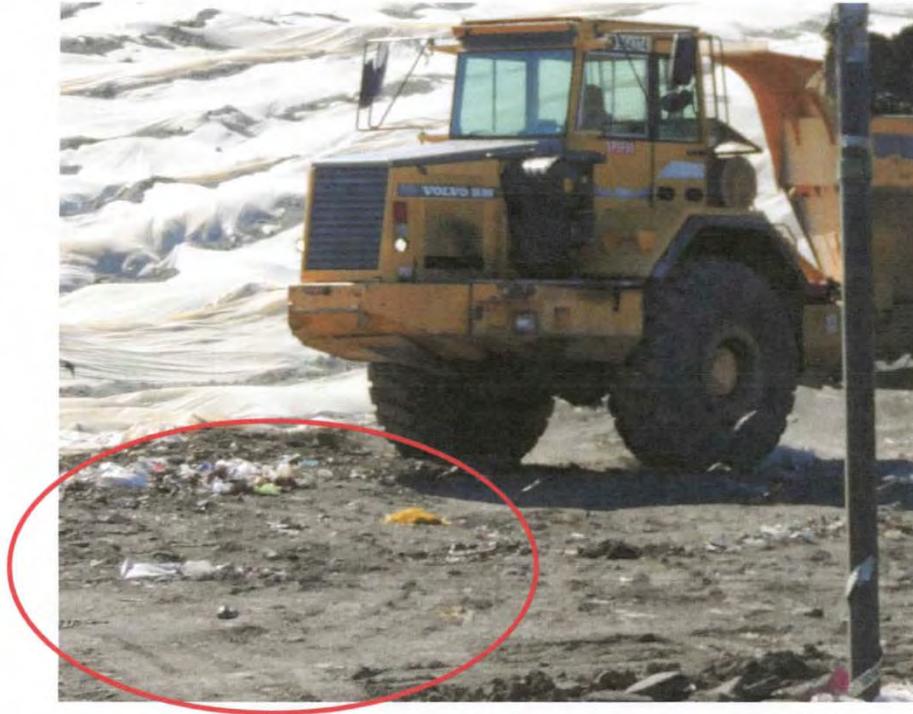


Photo 11: Waste not covered by ADC along the edges



Photo 12: Seep collection at toe of future Cell CCII



Photo 13: Soil accumulated against the wire fence at wall along San Fernando Road



Photo 14: At risk tree above slope at wall along San Fernando Road

March Site Visits

March 9, 2016:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 3/9/16
Site Conditions: Clear, 60-75°F, 5-15 MPH winds	
SITE LOG	
<p>Republic Site Manager - Rob Sherman</p> <p>Drove the adjacent neighborhood from 6:45 to 7:30 a.m. prior to signing in at the office. No landfill odors were detected. Met with Mike Lindsay (UltraSystems) and talked with Tyson Ross and Ricky Dhupar (Republic) at the landfill office. Signed in and proceeded to monitor the site and adjacent areas and observed the following:</p> <ul style="list-style-type: none"> • Drove to the greenwaste processing facilities on Blucher Avenue. Detected a strong greenwaste odor on Blucher coming from the area between C&D Recycling and North Hills Recycling. The odor was not detected on the 405 Freeway. • Drove back to the landfill and up the haul road. Localized liquid odors were detected coming from the landfill slopes of Cell CC-3A half way up the road to the operating area (at approximately 9:00 a.m.) • The working face was observed. Trash was being pushed up against the prior day's lift, with no fresh trash exposed to the south. Only a slight localized working face odor was detected on the adjacent haul road. • The misters on the litter fencing were operating and two Dust Boss blowers were operating at the working area. One additional Dust Boss was operating on the main access road. • Met with Gordon Grant of Falconry Bird Control at the working area. Observed falcon bird control. • At approximately 10:00 a.m., only a small portion of the ADC was not covered (approximately 30 square feet.) • Observed a large pond of water north of the working area from recent rain events. • City Deck A native vegetation was doing well with the recent rain. Removal of non-natives and mustard was not being done. • City Deck B was doing well. Non-natives were not being controlled. • City Deck C was doing well and non-natives were being controlled. Areas of the salt bush were also trimmed to allow natives room to grow. • The PM-10 berm had oak tree growth in some areas that appear to be sufficient for understory planting to take place. • San Fernando Road near the I-5 overpass has trash and construction debris piling up under and adjacent to the overpass. Graffiti is on most of the overpass. This is a City or County Public Works issue. • The terminal basin appears to be working as designed and dropping out sediment. The outlet risers are not blocked by sediment. • Approximately 5-6 feet of sediment is in the terminal basin at the deepest point. The sediment is too wet to move at this time. • Surface ponding from recent rains was seen at the sewer deep well pump location in the gray water handling area. No landfill odors were detected at this location. 	

Page 2 of 2, 3/9/16:

- The leachate treatment facility had localized odors detected around the processing tanks.
- Cell CC-3B had areas of the liner cushion soil eroded away from the recent rain.
- Basin A had standing water and sediment from the recent rain. The hillsides were free of litter.
- The two oil wells south of the old office site have not yet been lowered and re-abandoned.
- The westside drainage channel had minimal sediment and the repairs to the channel perform well.
- The Basin D outlet channel had corrugated steel pipe installed in portions of the channel and was covered with soil to allow access for the new Edison poles installation and long-term maintenance.
- Basin B had a minor amount of sediment with some standing water from the recent rains. The hillsides had minor amounts of wind-blown litter in the very back of the cove.

Flare Operating Conditions:

- Flare 1 - 1695°F, 1656 SCFM, -59.97 " vacuum
- Flare 3 - shut down
- Flare 9 - shut down
- Flare 10 - 1634°F, 3331 SCFM, -61.65 " vacuum, 35.76" outlet, 48.6% CH₄

The gas-to-energy plant was operating at full production using 8253 SCFM, 48.6% methane.

FURTHER REVIEW NEEDED

COMMENTS

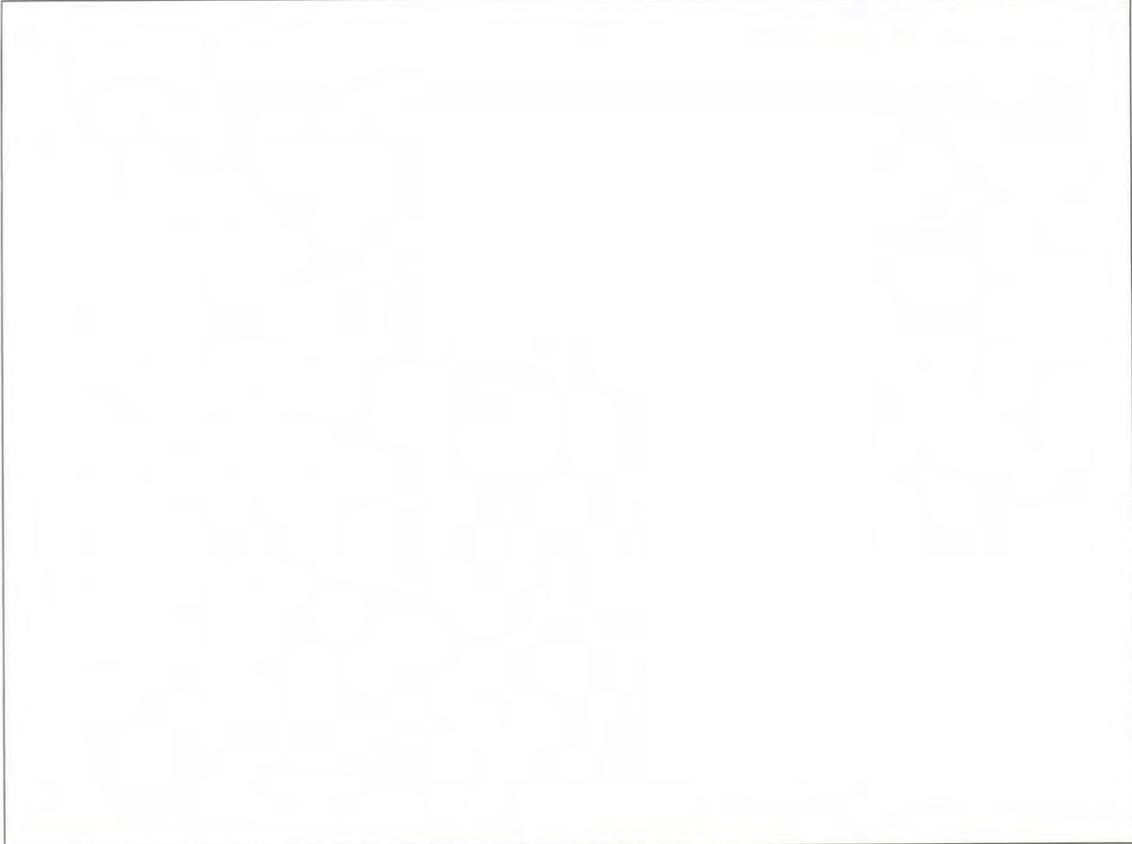
Signed:





**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 03-09-2016 Wednesday
Site Conditions: Clear, 54–79 °F, 4–18 mph, 41% RH	
SITE LOG	
<ol style="list-style-type: none"> 1. Met with Jim Aidukas (UltraSystems), and checked into office and with Tyson Ross and Ricky Dhupar (Republic). 2. Detected strong green waste odors (eucalyptus tree mulch) at the North Hills green waste facility on Blucher Avenue. 3. A local odor was detected of probably condensate liquid at the large apron turnout along haul road leading to working area. 4. A small area (6 feet by 6 feet) of alternative cover (ADC) is visible at the working area at 9:30 AM. 5. Dust Boss misters are operating along haul road and at working area to control odors. 6. Met with Gordon Grant (bird abatement contractor) at working area. 7. Water trucks are applying water throughout site. 8. Working area is in good order, with tippers operating. 9. Trash odors are local to working area only. 10. Flare 1 is operating at 1655 scfm, 1693 °F. Gas sample measured at 37 % Vol. CH₄, 1.7 % Vol. O₂, 84 ppm H₂S and 48 ppm CO. 11. New water tank and surrounding area is in good order. 12. Observed overall landfill operations from observation deck, including excavation work east of Sediment Basin A. 13. Observed City North Deck, including stockpiled road base material and pipes. 14. City Decks A and B are growing well and in good order. 15. City Deck C sage mitigation area is growing well, with new salt bush and sage expanding throughout habitat after winter rains. 16. Oak trees along PM-10 berm are growing larger and are a deep green color. 17. Leachate treatment facility by landfill entrance is in good order, but an odor can be detected locally. Met with Cory (Republic) who is working on leachate system. 18. Oil field road has no detected odors. 19. Piles of trash and debris continue to grow along San Fernando Road east of landfill entrance, under the I-5 freeway overpass. 20. The Terminal Basin is in good order, with two feet of sediment accumulated from recent rains. 21. The sewer tie-in and lower treatment facility are in good order, with no odors detected. 22. Sediment Basin A is in good order, with new sediment around drain risers. 23. Westside drainage channel is clear of sediment, with new concrete floor repairs. 24. Sediment Basin D is in good order, with new power poles staged at nearby storage yard. 25. Observed three sheriffs on police dirt bikes near Sediment Basin D. 26. Observed grading for new power poles north and west of County Top Deck. 27. The Gas-to-Energy plant is operating at full capacity. 28. Flare 9 is offline. 29. Flare 10 is operating at 3210 scfm, 1662 °F, with blowers 2, 3 and 4 active. Gas sample measured at 49 % Vol. CH₄, 1.4 % Vol. O₂, 69 ppm H₂S and 435 ppm CO. 30. Sediment Basin B is in good order, with some sediment build-up from recent rains. 31. Met with Patti Costa (Republic) near Sediment Basin A, and discussed our site monitoring observations. 	



FURTHER REVIEW NEEDED

1. Remove dumped trash and debris along San Fernando Road southeast of landfill entrance.

Signed: *Michael W. Lindsay*

March 23, 2016:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 3/23/16
Site Conditions: Clear and sunny, 50-75°F with 5-20 MPH wind gusts	
SITE LOG	
<p>Republic Site Manager - Rob Sherman</p> <p>Drove the adjacent neighborhood from 6:55 to 7:25 a.m. No landfill odors were detected. Met with Mike Lindsay (UltraSystems) at the landfill, signed in and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> • Drove the dirt haul road in Cell CC-3A to the working area. In one area before the turnout apron, there was a localized gas odor detected coming from the slopes and in another area there was a localized liquid odor detected. This was at approximately 8:00 a.m. At approximately 11:00 a.m., these odors were no longer detected. • The City HDPE-lined drainage lift area had a substantial amount of standing water. Siphon pumps were not draining the lined area. • The working area had litter fences in place and crews were mobilized to pick up litter. • At 8:15 a.m., approximately 10% of the ADC was not covered. The ADC was not affected by the wind gusts. • The Old City North vegetated hillsides above Cell CC-3B had a substantial amount of windblown litter. Clean-up crews were mobilized. • Drove to the greenwaste facilities on Blucher Avenue. No offsite odors were detected. • Drove to San Fernando Road near the I-5 overpass. There was more dumping of rock and rubble (some encroaching on the roadway,) trash, mattresses and bathroom fixtures. Graffiti has also increased. • Sierra Highway near the I-14 overpass was free of litter and debris. All areas patrolled by the Republic clean-up crew were clean. • The frontage wall on San Fernando Road near the Gas Company's meter station had graffiti on it. • The frontage retaining wall slope had lost more soil and the oak trees at the top have more exposed roots and look more unstable. • Drove the adjacent neighborhood at approximately 10:00 a.m. and did not detect any landfill odors. <p>Met with John Nelson (LACDPW), talked with Republic staff, and proceeded to monitor the site with Mr. Nelson.</p> <ul style="list-style-type: none"> • Observed the working area at approximately 10:45 a.m. and noted that the majority of the ADC was covered. • The terminal basin had no standing water. There was 3-4 feet of sediment in the basin. The sediment was too wet to move. • Cell CC-3B had ADC that was placed the day before. It was too windy to use this area for filling with trash. 	

Page 2 of 2, 3/23/16:

- The new access road drainage showed no sign of problems with handling the rainstorms.
- Basin B had a minor amount of standing water and sediment. The native hillside vegetation was free of windblown litter.
- Basin D had two temporary access roads constructed going into the basin to allow for Edison pole construction. One of the roads was blocking the native hillside drainage into the basin.
- The westside drainage channel was functioning properly and was free of sediment.
- Basin A had a minor amount of standing water with wet sediment around the outlet risers. The native hillsides were free of windblown litter.
- Grading continued at the old offices site using the dirt for daily cover.
- The two old oil wells at the old offices site were not yet re-abandoned.
- The new water tank on Deck A had powdery dirt around the tank that was not yet treated with soil sealant nor covered with rock.
- Deck A vegetation was doing well. Non-native removal has not occurred.
- Deck C vegetation was doing well. Maintenance and non-native removal had occurred.
- The PM-10 oak trees are responding well to the winter rains. Planting of the understory vegetation could occur.

Flare Operating Conditions:

- Flare 1 - 1713°F, 1815 SCFM, -57.91 " vacuum
- Flare 3 - shut down
- Flare 9 - 1658°F, 2575 SCFM,
- Flare 10 - 1645°F, 2585 SCFM, -64.0 " vacuum, 35.7" outlet, 46.2% CH₄, 3.05 O₂

The gas-to-energy plant was operating at reduced production 13.7 MW sales using 7032 SCFM, 46.2% methane.

A broken blower case bolt was noted at the Flare 1 skid.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 03-23-2016 Wednesday
Site Conditions: Clear, 52–77 °F, 6–20 mph, 35% RH	
SITE LOG	
<ol style="list-style-type: none"> 1. Met with Jim Aidukas (UltraSystems), and checked into office and with Patti Costa (Republic). 2. A local landfill gas odor was detected at the large apron turnout along haul road leading to working area. 3. Working area is in good order, with tippers and water misters in operation. Alternative daily cover (ADC) is holding up well to high winds, with 10% visible at 8:00 AM. 4. Observed wind-blown trash on hillside above Cell CC-3B, with workers picking it up. 5. No odors were detected at the green waste facilities on Blucher Avenue. 6. Piles of trash and construction debris continue to grow along San Fernando Road under the I-5 freeway overpass (1.0 mile east of landfill entrance). 7. Sierra Highway is clear of trash and debris within the landfill's local vicinity. 8. Graffiti was observed on retaining wall by landfill entrance at the gas odorization station. 9. No odors were detected in adjacent neighborhood and school. 10. Met with John Nelson (LACDPW). 11. ADC at working area is 95% covered with new trash at 11:00 AM. 12. Terminal Basin is in good order, with three feet of sediment accumulated on east side from recent rains. 13. The new Cell CC-3B contains one lift of trash from 03-22-2016, covered completely with ADC. 14. Forty-five workers are picking up wind-blown trash on south slopes below working area. 15. City North Deck is in good order, and is being used to stockpile powerline poles, liner material, equipment and road-base material. 16. Water trucks are applying water throughout site. 17. Sediment Basin B is mostly clear of sediment build-up. 18. Flare 9 is operating at 2570 scfm, 1646 °F, with blowers 2, 3 and 4 active. Gas sample measured at 49 % Vol. CH₄, 1.7 % Vol. O₂, 64 ppm H₂S and 391 ppm CO. 19. Flare 10 is operating at 2601 scfm and 1653 °F. 20. The Gas-to-Energy plant is operating at 80% capacity due to one turbine being offline. 21. Sediment Basin D is in good order, but its southwest drainage channel is blocked by soil being used for a temporary road crossing. 22. Storage yard by Sediment Basin D is in good order. 23. Westside drainage channel is clear of sediment. 24. Sediment Basin A is in good order, with some sediment around drain risers. 25. Observed grading operations east of Sediment Basin A, including the required paleo monitor. 26. New water tank and surrounding area is in good order. 27. Observed overall landfill operations from above observation deck, including City slope drainage system. 28. Flare 1 is operating at 1821 scfm, 1685 °F. Gas sample measured at 39 % Vol. CH₄, 0.9 % Vol. O₂, 83 ppm H₂S and 52 ppm CO. 29. City Deck C sage mitigation area is growing well after recent rains. 30. Met with Patti Costa and Mat Eaton (Republic), and discussed our site monitoring observations. 	
FURTHER REVIEW NEEDED	



1. Eliminate local landfill gas odor at the large apron turnout along haul road.
2. Remove dumped trash and construction debris along San Fernando Road southeast of landfill entrance.
3. Remove graffiti on retaining wall by landfill entrance.
4. Remove soil blocking Sediment Basin D southwest drainage channel.

Signed: *Michael W. Lindsay*

Appendix IV

Meeting Logs

**Sunshine Canyon Landfill
Meeting Log for January 2016 Site Monitoring**

January 7, 2016

Post-monitoring meeting with Patti Costa, Republic Environmental Manager and Ricky Dhupar, Republic Environmental Specialist.

Attendees:

James Aidukas, UltraSystems
Mike Lindsay, UltraSystems
Tarik Hadj-Hamou, UltraSystems
Karlo Manalo, LACDPW
Nam Paon, LACDPW



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 overall, the entire site is in good shape after the recent rains. The box culvert under the access road east of Cell CC-3B had the temporary HDPE-lined drainage ditch to the terminal basin washed away and deep soil erosion had occurred.
 - o Patti Costa stated that they were aware of the condition caused by the intense rainfall and that it was schedule for immediate repair. However, all of the sediment and water was handled by the terminal basin.
- b. Tarik Hadj-Hamou stated that some soil and mud sloughing occurred on the access road steep slopes near the terminal basin.
 - o Patti Costa acknowledged the statement.
- c. Jim Aidukas stated that we observed that water was being pumped out of the Cell CC-3A lined temporary basin/lift area.
 - o Patti Costa stated that they have the lift pumps running and will remove the water as fast as possible.
- d. Jim Aidukas stated that there are areas of water ponding on the County top deck.
 - o Patti Costa stated that Tyson (Republic operations manager) will fill low spots that exist.
- e. Jim Aidukas stated that the westside drainage channel had rain going behind the concrete wall and was uplifting the floor in one previously noted section. The channel is worsening but did not fail.
 - o Patti Costa acknowledged the statement.

- f. Jim Aidukas stated that the Flare 9 and 10 gas recovery flow meter was reading 6645 SCFM when the gas-to-energy plant was 7800 SCFM. The Sunshine Power Producers staff stated that their meter had been calibrated.
 - Patti Costa stated that TetraTech has been advised to repair and/or calibrate the meter.

- g. Mike Lindsay stated that water was draining uncontrolled down the slope in back of the administration offices, causing deep ruts.
 - Patti Costa stated that they are aware of the condition, and are having their consulting engineer look at it.

- h. Jim Aidukas stated that there were no landfill odors in the adjacent neighborhood early this morning.
 - Patti Costa acknowledged the statement.

- i. Karlo Manalo asked if there are any plans for hydroseeding.
 - Patti Costa stated that they are waiting for the rainy season to finish so that the seeds will not be washed away.

The meeting was then adjourned.

January 27, 2016

Post-monitoring meeting with Patti Costa, Republic Environmental Manager, Ricky Dhupar, Republic Environmental Specialist and Mat Eaton, Republic Environmental Gas Manager.

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. Jim Aidukas stated that there is exposed trash on the County south slope north of Cell CC-3A. It appeared that the cover soil had eroded away.
 - o Patti Costa stated that they will have it graded.
- b. Jim Aidukas stated that on San Fernando Road and near the I-5 overpass there is rock and rubble, bulky items, and trash being dumped along the side of the road and under the overpass. The amount of waste continues to grow.
 - o Patti Costa stated that this is outside of their cleanup and is a City Streets and Maintenance issue.
- c. Jim Aidukas stated that there was windblown trash on San Fernando Road near the Jensen Filtration Plant
 - o Patti Costa stated that they will look into having it removed.
- d. Jim Aidukas stated that there was trash mixed in the waste cover soil near the tipplers. Whether this was from earlier today or yesterday could not be determined.
 - o Patti Costa stated that she would talk to the operations staff and that they will have it fixed.
- e. Jim Aidukas stated that the big cone fir trees were observed and that most of them were doing well, but noticed that some were dead.
 - o Ricky Dhupar stated that Greg Ainsworth, the JMA consulting biologist, will be doing the annual tree survey soon which will show the number of living trees and the number of mitigation trees required.
- f. Jim Aidukas stated that the decommissioned condensate treatment tanks being stored in the material storage area were no longer producing an odor.
 - o Patti Costa acknowledged the statement.
- g. Jim Aidukas stated that the natural gas being emitted from the Aliso Canyon gas leak could not be detected around the upper canyon roads around Sunshine Canyon. The gas appears not to be moving in the landfill's direction.
 - o Patti Costa acknowledged the statement.

- h. Jim Aidukas stated that the 12" HDPE vacuum line at the old Flare 8 site had a vacuum leak.
 - o Mat Eaton, Republic's Environmental Gas Manager, stated that he would look into repairing it.
- i. Jim Aidukas stated that there is graffiti on the retaining wall at the Gas Company's meter station south of the landfill entrance.
 - o Patti Costa stated that she would advise operations staff.
- j. Jim Aidukas stated that soil is top loading the retaining wall south of the entrance on San Fernando Road and could be impacting the retaining wall's structural integrity.
 - o Patti Costa stated that she and the operations staff will investigate these concerns.
- k. Jim Aidukas stated that the acceleration lane heading south out of the landfill entrance has soil impacting its use.
 - o Patti Costa stated that she would investigate this condition.
- l. Jim Aidukas stated that two oak trees growing upslope of the retaining wall were losing soil around their roots and if they slide, would impact the power lines along San Fernando Road and also the southbound traffic lanes.
 - o Patti Costa stated that she would investigate.

The meeting was then adjourned.

**Sunshine Canyon Landfill
Meeting Log for February 2016 Site Monitoring**

February 24, 2016

Post-monitoring meeting with Patti Costa, Republic Environmental Manager and Tyson Ross, Republic Operations Manager.

Attendees:

James Aidukas, UltraSystems
Mike Lindsay, UltraSystems
Tarik Hadj-Hamou, UltraSystems
Nam Doan, LACDPW



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. Jim Aidukas stated that no landfill odors were detected in the adjacent neighborhood during the early and mid-morning hours. We did observe work being done in the Cell CC-3A area and detected localized odors from that area.
 - o Patti Costa acknowledged the statement and said that they were aware of the work being done.
- b. Tarik Hadj-Hamou stated that the monitoring team observed that the westside drainage channel has had the channel floor replaced where it had been lifting and the sidewall that was letting water undermine a section of the channel repaired. Other sidewall areas with spalling and/or cracks were not yet replaced but do not pose a danger of failure. These sidewalls should be scheduled for maintenance.
 - o Patti Costa stated that she was aware that some areas of the concrete side walls still need to be scheduled for repair.
- c. Tarik Hadj-Hamou stated that we observed corrugated metal pipe being installed in the Basin D outlet drainage channel.
 - o Patti Costa stated that it was for road crossing points for the placement of new SCE poles and future right-of-way for power facilities maintenance.
- d. Tarik Hadj-Hamou stated that ruts are forming on the slope below the working area and above the haul road. Close observation indicates that the erosion is near refuse.
 - o Tyson Ross stated that they will check the slope condition and make necessary repairs when weather conditions allow.
- e. Jim Aidukas stated that liquids odors were detected along the haul road near Well 684.
 - o Tyson Ross stated that they will investigate this area for the odor's source. Condensate pumps are installed in this area.

- f. Tarik Hadj-Hamou stated that inert waste is showing on the southeast facing slope of the County fill. Close-up observation shows a depression and a hump in the area where the refuse is showing. The area may have settled and sloughed outward pushing and uncovering the waste at the front of the mass that moved. There are no cracks in the cover in the area or other sign of slope distress. There were no landfill odors.
 - Patti Costa and Tyson Ross stated that they would investigate this area and take appropriate action.

- g. Tarik Hadj-Hamou stated that soil is impacting the retaining wall southeast of the landfill entrance. Sloughed soil is piling up against the chain link fence above the wall and filled up the concrete drainage ditch built on top of the wall. A tree at the top of the slope is leaning dangerously, with a partially exposed root bulb. Its stability should be evaluated as if it fell, it would take down the power line and lead to a road blockage. Before any removal of soils, a geotechnical evaluation of the stability of the slope should be performed.
 - Tyson Ross stated that they will need to coordinate with the City of Los Angeles for a road closure once a work plan is developed.

- h. Jim Aidukas stated that the oak tree mitigation area along the oil field road was observed and the trees and native vegetation were doing well with the winter rain.
 - Patti Costa acknowledged the statement.

- i. Jim Aidukas stated that the illegally dumped construction debris, furniture, and trash is growing on San Fernando Road south of the I-5 overpass. Also, graffiti is now present on the overpass walls and columns. It was acknowledged that this is outside Republic's clean-up area. A call to the City Department of Public Works should be made by Republic or the LEA.
 - Patti Costa acknowledged the statement.

- j. Jim Aidukas stated that the monitoring team observed that there was stray trash outside of the ADC from the prior day's operation. The ADC installation procedures should eliminate this condition.
 - Tyson Ross stated that they will consider covering the margin around the ADC with soil at the end of the day.

- k. Jim Aidukas stated that several oak trees were removed north of Basin A and asked if the County Forester inspected the site and gave approval for their removal.
 - Patti Costa stated that they removed 25 oak trees for the SCE project, and that the County Forester was out at the site and approved the take. Mitigation trees have been grown to replace these trees.

The meeting was then adjourned.

**Sunshine Canyon Landfill
Meeting Log for March 2016 Site Monitoring**

March 9, 2016

Post-monitoring meeting with Patti Costa, Republic Environmental Manager.

Attendees:

James Aidukas, UltraSystems
Mike Lindsay, UltraSystems



Discussion:

We had a post-monitoring meeting with Patti Costa in the field and provided her with our monitoring observations. We asked questions regarding site activities and mitigation status, and received comments and updates as follows:

- a. Jim Aidukas stated that he drove the adjacent neighborhood from 6:45 to 7:30 this morning and no landfill odors were detected.
 - o Patti Costa made note of the observation.
- b. Jim Aidukas stated that we detected a localized liquids odor, most likely condensate, coming from the Cell CC-3A slope above the dirt haul road leading to the working face area. This was right before the large apron turnout.
 - o Patti Costa stated that she would advise the Operations Manager and Environmental Engineer of our findings.
- c. Jim Aidukas stated that strong localized green waste odors (eucalyptus tree mulch) were detected at the area between the C&D Recycling Facility and the North Hills Greenwaste Facility on Blucher Avenue. The odor was not detected on the 405 freeway.
 - o Patti Costa acknowledged the statement.
- d. Jim Aidukas stated that it was observed that grading for new power poles north and west of the County Top Deck was underway, and that rock and soil was falling on top of the main gas collection HDPE pipelines.
 - o Patti Costa stated that Republic staff was performing these grading activities. She said that they were currently protecting the valve equipment, but that she would investigate the risk to the gas gathering piping system.

The meeting was then adjourned.

March 23, 2016

Post-monitoring meeting with Patti Costa, Republic Environmental Manager, and Mat Eaton, Republic Environmental Engineer.

Attendees:

James Aidukas, UltraSystems
Mike Lindsay, UltraSystems
John Nelson, LACDPW



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. Jim Aidukas stated that he drove the adjacent neighborhood from 6:55 to 7:25 a.m. this morning and again at 10:00 a.m. and that no landfill odors were detected.
 - o Patti Costa made note of this observation.
- b. Jim Aidukas stated that the monitoring team detected odors coming from the slope in Cell CC-3A on the haul road to the working area. In one area before the turnout apron, there was a localized gas odor detected coming from the slopes and in another area there was a localized liquid odor detected. This was at approximately 8:00 a.m. At approximately 11:00 a.m., these odors were no longer detected.
 - o Mat Eaton stated that BAS was having control air systems problems in the morning that were fixed by 11:00 a.m. It could be that air driven recovery/transfer systems could have been non-operational. He stated that BAS would be advised of our observations.
- c. Jim Aidukas stated that wind-blown trash was observed on the Old City North slopes; he also state that Eulogio Garcia stated that he had 45 workers picking up the windblown litter.
 - o Patti Costa acknowledged the statement.
- d. Jim Aidukas stated that the Basin D had two temporary roads blocking drainage into the basin.
 - o Patti Costa stated that she will go and look at the temporary blockage and advise the Operations Manager.
- e. Jim Aidukas stated that we observed that on the Flare 1 skid, there was a blower with a broken case bolt
 - o Mat Eaton stated he had the blower manufacturer repair company look at the blower and they stated that it was safe to operate the blower with the broken bolt.
- f. Mike Lindsay stated that large piles of construction debris has been dumped on San Fernando Road near the I-5 overpass, south of the site. Some of the broken concrete was encroaching on the roadway. He also stated that UltraSystems would contact the City for its removal using the 311 number. Mike Lindsay also stated that San Fernando Road and Sierra Highway was free of debris and litter where Republic's clean-up crews patrol.

- Patti Costa acknowledged the statement.
- g. Mike Lindsay stated that there is new graffiti on the retaining wall south of the landfill entrance near the Gas Company's odorization station.
 - Patti Costa stated that she would advise operations.
- h. Jim Aidukas stated that he smelled odorized natural gas coming from an area in back of the frontage retaining wall. There was a buried pipeline marker in this area.
 - Mat Eaton stated that he will investigate the location for a leak and call the Gas Company, if needed..

The meeting was then adjourned.