Sunshine Canyon Landfill
Independent Monitor
Quarterly Site Monitoring Status Report
April 1, 2015 – June 30, 2015

Prepared For:

City of Los Angeles Department of City Planning

And

County of Los Angeles Department of Regional Planning

Prepared By:

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, California 92618

Prepared On:

August 5, 2015

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UltraSystems
environmental | management | planning

CERTIFICATION STATEMENT

August 5, 2015

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated August 5, 2015 is the Second Quarterly Report for 2015, issued by UltraSystems. This report covers the monitoring period from April 1, 2015 through June 30, 2015 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

Corporate Office – Orange County
16431 Scientific Way
Irvine, CA 92618-4355
Telephone: 949.788.4900
Facsimile: 949.788.4901
Website: www.ultrasystems.com

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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 April 1, 2015 to June 30, 2015. It includes:

1. The City and County Mitigation Monitoring Summary Excel Tables for April 1, 2015 to June 30, 2015. These tables record the areas of monitoring completed and the status of being compliant during the second quarter of 2015;

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 report for 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 April through June 2015 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on April 9, 2015; April 23, 2015; May 27, 2015; June 9, 2015 and June 24, 2015. 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 monthly 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 monthly monitoring report provides a summary of activities being done on-site to construct or maintain facilities and a summary of documents, reports and drawings that should be readily available onsite for monitoring reference.

Non-Compliant

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

Further Review Needed

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

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 April 2015, the temporary basins and the alluvial soils under these basins were removed for the realignment of the access road. Prior to the installation of underdrains and a liner, we observed placement of compacted soil. Republic's geotechnical consultant was verifying the placement and compaction of this base material. Road construction excavation was being done simultaneously in all areas.

In May 2015, all alluvial was removed and liner placed where the temporary access road would be built inside the future landfill footprint.

In early June 2015, liner installation in the access road realignment area was nearing completion. A graded roadway was nearing completion in most areas.

In late June 2015, roadway construction and drainage V-ditches were estimated to be completed in July 2015.

Periodically, a Republic biological consultant surveyed those areas of the access road realignment construction that had vegetation for nesting birds until the vegetation was removed.

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 City Planning Department presented the Phase III (10-year Phase Review) condition at the April 2, 2015 TAC meeting. The 10-year review will be started by the City Planning Department.

Q-C.10.c (City)
The operator shall submit, as part of its annual report, an evaluation of the feasibility of beneficial uses of the landfill gas collected at the site such as landfill-gas-to-energy.

Odor/Landfill Gas - 7.07 (County)
The permittee will recover and sell as much gas as is technically and economically feasible to reduce total air quality emissions from the landfill operations. It is expected that the technical and economic feasibility of commercial recovery and sale of landfill gas as a renewable energy resource will occur at levels below 40 MMCFD. The gas collection system will be installed in increments to allow for maximum gas recovery.

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

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

Current Status/Comments – In early April 2015, the gas-to-energy facility was shut down to perform an operational check/ turnaround. It was noted during our monitoring that the main automatic gas shut-off valve from the flare blowers to the gas-to-energy facility was leaking hydraulic oil. It was also noticed that one of the flare blower's discharge rubber expansion joints was ballooning out when operating at the observed maximum flow and high gas temperatures. Republic and Sunshine Gas Producers were notified of these observed conditions.

During the April 23, 2015 site monitoring, the gas-to-energy staff stated that the April 9, 2015 turn-around did not uncover any operational concerns. The facility was operating at full capacity.

In May and June 2015, the gas-to-energy facility was operating at maximum generation with no operational problems.

A summary of the landfill gas generated and the beneficial use of the landfill gas should be included in the annual report.

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 – Upon completion of the access road realignment construction, a plot plan showing the relocated offices, scales and scale house, fire access roads and ingress and egress roads should be submitted to the City Fire Department for their use. This information should also be posted for employee and customer use.

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 (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-4.1.5 (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 – In late May 2015, the realigned access road grading activities were on-going, with scrapers moving dirt to raise the elevation from the terminal basin to the old condensate treatment pad. The hillside adjacent to the oil field road was being graded to lower its elevation to that of the oil field road. The transition to the existing access road was staked, and vegetation and trees removed. A small block wall (non-retainer type) had soil sloughing against and on top of it from the adjacent grading activity. This wall may not support the load. The only compaction seen was that of track rolling with a dozer and wheel loading by the scrapers. No compaction rollers were seen being used. The compaction of the fill was being monitored by Republic's geotechnical engineering consultant, and it is assumed by UltraSystems that the standards specified in the geotechnical report prepared for the work was met. UltraSystems did not have access to the geotechnical design report.

During the early June 2015 site monitoring, the grading activities for the realignment of the access road was on-going, with the underdrain system and liner being installed. Republic's geotechnical engineer stated that a rubber-tired CAT-A23 was being used to obtain compaction and that tests were being done with a nuclear gauge. Test results will be in the final geotechnical report.

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 – During the second quarter monitoring, the germination of hydroseeding on interim and inactive slopes had minimal success due to the lack of irrigation with

potable water. The use of alternatives to hydroseeding on interim and inactive slopes for slope stability and dust control should be considered during this drought period.

In early April 2015, two types of slope stability netting (plastic and jute) were being used on the south facing slopes of Cell CC-3A. A performance test was being done by the landfill on these two slope stability options.

During the June 27, 2015 site monitoring, blowing dust was observed due to gusty winds and dry conditions on the unvegetated top decks. Trucks delivering wet weather rubble and asphalt were also causing dust clouds due to inadequate watering of the dirt roadways used. Soil sealant and additional recycled water usage should be investigated.

M-4.1.4(11) (City)
An operations checklist shall be used by a registered engineering geologist for surveys following all earthquake events measuring 5.0 on the Richter scale or greater near the project site. A comparison of operating parameters and site conditions before and after major earthquake events shall be made to verify that systems are operational as designed. Final designs for major engineered structures shall be based on the results of the detailed stability analyses of potential seismic events.

Current Status/Comments – During the May 27, 2015 site monitoring, it was observed that a new foundation and enclosure for the onsite seismic detection and recorder equipment was installed at the underdrain and recycled water handling facility. New seismic detection and recording equipment has been placed on order. The schedule for the installation of the new equipment had not been set.

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 applicant 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.

During the April 9, 2015 site monitoring, it was observed that the working landfill face was exposed to the south when being filled causing an odor to be detected on the main access road. No odor was detected offsite. Republic staff was notified of this observation.

In April 2015, the odor abatement air freshener system piping on the block wall adjacent to San Fernando Road near the landfill entrance was dismantled and the pump for the air freshener system was not in operation.

During the May 27, 2015 site monitoring, the leachate treatment system had a slight odor near tank T-203. A Republic maintenance person was cleaning and repairing gas well condensate pumps at this facility. No odor was detected offsite.

During the June 9, 2015 site monitoring, it was observed that a new gas condensate sump was being installed near the old City truck scales site. The sump was being commissioned by BAS/Tetra Tech personnel. The 24-inch HDPE line feeding gas condensate to the sump was leaking liquid from a temporary PVC cap taped to the end of the line. Liquid was ponding on the ground. Republic staff was notified and aware of the condition, and had the contractor working on it. At the end of monitoring when leaving the site, the condensate wetted soil was being removed, the leak was stopped and new soil was being placed at the location.

Between 10:15 A.M. and 10:30 A.M., we monitored the old GSF plant site in the oil field. At the site gate, we could smell the operating landfill face. This was a constant odor. Republic staff was notified of this occurrence. They stated that the Dust Boss equipment was turned off at about 10:00 A.M. This might be a coincidence or there may be a direct cause and effect between running and not running the Dust Boss. No odor was detected off of Republic property.

In late June 2015, it was observed that construction for the new Cell CC-3B severed the buried under-drain and condensate collection HDPE piping coming out of Cell CC-3A. The liquids from the underdrain and condensate collection piping were being temporarily collected in two separate HDPE-lined surface ponds and handled by temporary pumps. The condensate liquid had odors detected approximately 100 feet away from the pond. Republic was notified and staff stated this was a temporary condition. No odors were detected offsite.

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 CC, Title 23, Division 3, Chapter 15, Article 3, §2533(C), and County of Los Angeles Public Works Department, Flood Control Division requirements.

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.

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. 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.

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 – During the April 9, 2015 site monitoring, it was observed that Basins A and B had standing water around the outlet risers. Sediment in the rock boulders around the risers block total drainage. The other sediment in the basins was removed.

It was observed on April 23, 2015 site monitoring that the westside drainage channel had a broken and uplifting floor and broken and spalling sidewalls in the area east and south of the County sage area. This was noted on prior site monitoring visits. There were deep holes around the City sewer connection to the liquid holding and lift vaults due to a lack of compaction when installed and prior rain events causing settlement and erosion. These areas should be fixed. The preventative maintenance plan should be available on site for review along with report of inspection of the structures and status for scheduling necessary repairs.

During the May 27, 2015 site monitoring, it was observed that conditions of channel of the westside between Basin A and Basin D was getting worse. Floor slabs were uplifted more than ever with heavy vegetation growing. Side walls were cracked. The downchute V-ditch from the County sage area did not drain over the wall as designed but was separated from the wall, and water flowed behind the wall and under the floor. The preventative maintenance plan should be available on site for review along with report of inspection of the structures and status or scheduling necessary repairs.

At the June 9, 2015 site monitoring, Republic had their geotechnical consultant evaluate the westside drainage channel condition and they are preparing a plan for necessary repairs. Republic will budget repairs for 2016.

Biota 4.11 (County)

An Oak Tree Mitigation Plan will be implemented in a manner intended to meet or exceed the minimum replanting requirements of the Los Angeles County Oak Tree Permit 86-312 and will include measures for replacement oak tree planting within Sunshine Canyon, East Canyon, and other off-site areas acceptable to the County Forrester. This plan also [provides for a 5-year Monitoring and Management Program to guarantee survival of replacements trees for a minimum of 5 years after the trees are established at 1-inch in diameter and 1-foot above the natural grade.

Current Status/Comments – During the May 27, 2015 site monitoring, it was observed that the surviving Big Cone Fir trees that were planted in 2010 were doing well. New Big Cone Fir seedlings were planted and not yet tagged. These seedlings were doing well.

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 – It was observed during the April 9, 2015 site monitoring that the City sage mitigation Deck C was doing well. The predominant plant was salt bush with other native plants, including sage, growing in the understory in some locations.

The PM-10 berm oak trees were doing well in all areas except for the ridgeline saddle where the high winds have stunted their growth. The understory PM-10 vegetation could be planted in all but the saddle area.

On April 23, 2015 it was observed that the City Deck C sage mitigation was doing well. Some of the vegetation had died due to the warm summer-like conditions and the changing of the season. These plants will most likely resprout in the fall.

On May 27, 2015 it was observed that the Deck C sage mitigation was doing well with the predominant plant being salt bush. The PM-10 oak trees at the Deck C berm, except in the low point, appear to be tall and healthy. The planting of the understory trees has not been done. Mustard plants were taking over portions of Deck A and Deck B.

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 – During the April 23rd monitoring, Republic staff stated that the Corps of Engineers provided final comments to the Republic/City agreement to use Chatsworth Reservoir as a wetlands mitigation site. Republic transmitted these comments to the City Attorney the same day. The City Attorney has not yet finalized the agreement.

M-4.9.1(94) (City)
The spill response program shall be part of required training for all facility employees. In the event of a spill, containment is paramount. All landfill employees shall be trained to use dirt and/or other absorbent materials to pick up and/or contain small spills of oils, solvents, and/or other material that may be harmful to the public, facility workers, or the environment. Training in the use of personal protective equipment, fire extinguishing aids (e.g. hoses or extinguishers), and spill containment/mitigation (e.g. absorbents) shall be provided.

Current Status/Comments – During the April 23, 2015 site monitoring, heavy equipment was parked near Basin A and on the Old City North top deck with no oil drip containment.

It was observed in June 2015 that the Old City North top deck had heavy equipment parked with no oil drip containment.

M-4.9.4(121) (City)
The landfill operator shall implement a fire prevention plan in compliance with CCR, Title 8, § 3221. Components of this written fire prevention plan shall include potential fire hazards and their proper handling and storage procedures; potential ignition sources (i.e., welding or smoking), their control procedures, and the type of fire protection equipment or systems that can control a fire involving them; names or regular job titles of those responsible for maintenance of equipment and systems installed to prevent or control ignitions or fires; and names or regular job titles of those responsible for the control of accumulation of flammable or combustible waste materials.

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 – During the April 23, 2015 site monitoring, cigarette butts were observed on the ground around the Flare 9 and Flare 10 blower skid.

At the end of May 2015 it was observed that a secondary access road from Deck C to the oil field and Sesnon Boulevard had not been graded nor surfaced with rock. Passenger vehicles may not be able to use this road in its current condition. Many facilities on site are being relocated. At the completion of this construction, a fire plot plan showing the new locations and roadways 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-4.9.4(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 – In April and May 2015, 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 – In April through June 2015, a paleontological consultant was on site monitoring the excavation west and south of the offices in City and County jurisdictions. No recoverable resources were encountered; only minor non-recoverable fragments.

A paleontological consultant was monitoring the access road realignment grading.

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. 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 2015 Second Quarter Mitigation Monitoring Summary Excel spreadsheets track the progress and completion of tasks as they were accomplished during this quarterly period.

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Sunshine Canyon Landfill City Mitigation Monitoring Summary
(04-01-2015 through 06-30-2015)

Line #	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	First Quarter																Second Quarter																			
					1/7/2015	Status*	Further Review Needed/Comments**	Resolved*	2/13/2015	Status*	Further Review Needed/Comments**	Resolved*	2/26/2015	Status*	Further Review Needed/Comments**	Resolved*	3/24/2015	Status*	Further Review Needed/Comments**	Resolved*	4/9/2015	Status*	Further Review Needed/Comments**	Resolved*	4/23/2015	Status*	Further Review Needed/Comments**	Resolved*	5/27/2015	Status*	Further Review Needed/Comments**	Resolved*	6/9/2015	Status*	Further Review Needed/Comments**	Resolved*	6/24/2015	Status*	Further Review Needed/Comments**	Resolved*
1	**Project Manager**																																							
2																																								
3																																								
4	Q - A.3.		Definitions	info	/				/				/				/				/				/				/				/				/			
5	Q - A.6.		Submit Annual Reports	June yearly	/				/				/				/				/				/				/				/				/			
6	Q - A.10.		Provision of Fees	yearly	/				/				/				/				/				/				/				/				/			
7	Q - B.1.		Permitted/Prohibited Landfill Uses	yearly	/				/				/				/				/				/				/				/				/			
8	Q - B.2		Approval of Landfill	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
9	Q - B.2.c.		Ancillary Uses and Facilities	ongoing	✓	C	I-a		✓	C	NONE		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	NONE		✓	C	I-g		✓	C	I-h		✓	C	I-i	
10			Ancillary Uses and Facilities																																					
11	Q - B.2.d (3)		10 Year Phase Review	2015																	✓	C	I-e		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
12			10 Year Phase Review																																					
13	Q - B.4.d.		Inert/Exempt Materials	info	/				/				/				/				/				/				/				/				/			
14	Q - B.5.a.		Prohibited Waste	info	/				/				/				/				/				/				/				/				/			
15	Q - B.6.		Waste Diversion	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
16	Q - C.3.g.		Paved Access Roads	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
17	Q - C.3.h.		Surfacing of Access Roads	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
18	Q - C.5.		Graffiti Removal and Deterrence	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
19	Q - C.10.c.		Evaluation of Beneficial Gas Usage	June yearly	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	FRN	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	FRN	I-i	
20	Q - C.10.d. (1)		Alternative Fuel Vehicles	status																																				
21	Q - C.10.d. (2)		Alternative Fuel Refuse Collection Trucks	status																																				
22	Q - C.12.a.		Technical Advisory Committee	info	/				/				/				/				/				/				/				/				/			
23	Q - C.12.c.		Contract for Mitigation Monitoring	info	/				/				/				/				/				/				/				/				/			
24	Q - C.12.c.		Contract for Mitigation Monitoring-5 years	info	/				/				/				/				/				/				/				/				/			
25																																								
26	T - 4		Fire Plan	status									✓	FRN	I-c																		✓	FRN	I-h					
27	T - 5.j.		Trip Diversion	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
28	T - 6		Satisfactory Street Lighting	status	/				/				/				/				/				/				/				/				/			
29																																								
30	M - 4.1.1	7	Reabandonment Procedures	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	

*** C = Compliant, NC = Non-Compliant, FRN = Further Review Needed, R = Resolved**
**** See Appendix I for Comments**
Checkmark = Condition or mitigation was monitored
/ = Yearly or non-ongoing monitoring frequency

Sunshine Canyon Landfill City Mitigation Monitoring Summary
(04-01-2015 through 06-30-2015)

Line #	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	First Quarter																Second Quarter																			
					1/7/2015	Status*	Further Review Needed/Comments**	Resolved*	2/13/2015	Status*	Further Review Needed/Comments**	Resolved*	2/26/2015	Status*	Further Review Needed/Comments**	Resolved*	3/24/2015	Status*	Further Review Needed/Comments**	Resolved*	4/9/2015	Status*	Further Review Needed/Comments**	Resolved*	4/23/2015	Status*	Further Review Needed/Comments**	Resolved*	5/27/2015	Status*	Further Review Needed/Comments**	Resolved*	6/9/2015	Status*	Further Review Needed/Comments**	Resolved*	6/24/2015	Status*	Further Review Needed/Comments**	Resolved*
31	M - 4.1.4	11	Post-5.0 Earthquake Analysis	upon event	✓	FRN	I-a		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		✓	FRN	I-g		/	NA	NONE		/	NA	NONE	
32	M - 4.2.12	27	Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
33	M - 4.2.12		Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
34	M - 4.2.12	28	Site Erosion-Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
35	M - 4.2.12		Site Erosion-Cell Height	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
36	M - 4.2.12		Site Erosion-Sealant	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	C	NONE		✓	FRN	I-d		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-i	
37	M - 4.2.13	29	LFG Control Measures	ongoing	/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h		/		I-i	
38	M - 4.2.13	30	Operational Odor Control Techniques	ongoing	/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h		/		I-i	
39	M - 4.2.13	31	Solid Waste Compaction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
40	M - 4.2.13	32	LFG Collection and Recovery System	ongoing	/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h		/		I-i	
41	M - 4.2.13	33	Odor Control Measures	ongoing	✓	FRN	I-a						✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
42	M - 4.2.13	34	Odor/LFG Monitoring	ongoing	/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h		/		I-i	
43			Periodic LFG Monitoring		/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h		/		I-i	
44	M - 4.3.2	52	LFG Migration Mitigation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
45	M - 4.3.2	57	Dust Control Water	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
46	M - 4.4.2	69	Offsite Mitigation Sites	status													✓	FRN	I-d						✓	FRN	I-f													
47	M - 4.4.2	70	Purchasing Wetland Credit	status	/				/				/				/				/				/				/				/				/			
48	M - 4.4.2	71	Funding-Invasive Species Eradication Program	status	/				/				/				/				/				/				/				/				/			
49	M - 4.6	85	Site Lighting	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
50	M - 4.7.1	86	Open Space Buffer Area	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
51	M - 4.9.3	106	Litter Minimization	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
52	M - 4.9.3	107	Litter/Debris Containment	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
53	M - 4.9.3	108	Vehicle Tarping Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
54	M - 4.9.3	109	Periodic Offsite Litter Pickup	ongoing													✓	C	NONE																					
55	M - 4.9.3	110	Illegal Dumping Activities	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
56	M - 4.9.3	111	Radio Dispatch Litter Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
57	M - 4.9.3	112	Litter Control	ongoing	✓	FRN	I-a		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-g		✓	C	NONE		✓	FRN	I-i	
58	M - 4.9.5	127	Address Concerns of Citizens' Advisory Committee	ongoing	/				/				/				/				/				/				/				/				/			
59	M - 4.9.6	128	Landfill Gas/Collection System-Unsafe Methane Levels Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	

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60	M - 4.9.6	129	Landfill Gas/Collection System-Detection/Training	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
61	M - 4.9.6	130	Landfill Gas/Collection System-Risk Mitigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
62	M - 4.16.4	176	Reclaimed Water	status	/				/				/				/				/				/				/				/				/			
63	M - 4.16.4	177	Water Conservation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
64																																								
82	**Civil & Geotechnical Engineer**																																							
83																																								
84																																								
85	M - 4.1.1	2	Grading Outside of Conceptual Grading Plan Area	ongoing					✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d										✓	FRN	I-g		✓	FRN	I-h					
86	M - 4.1.1	3	Unsuitable Material Removal/Buffer Zones	ongoing																									✓	C	NONE						✓	C	NONE	
87	M - 4.1.1	4	Grading Outside of Landfill Footprint	ongoing					✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d										✓	FRN	I-g		✓	FRN	I-h					
88	M - 4.1.1	5	Grading Activity Compliance	ongoing					✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d										✓	FRN	I-g		✓	FRN	I-h					
89	M - 4.1.2	8	Landslide Guidelines	ongoing																																				
90	M - 4.1.2	9	Soil Stabilization	ongoing																																				
91	M - 4.1.4	10	Landfill Design	ongoing																																				
92	M - 4.1.4	11	Earthquake Operations Checklist	upon event	✓	FRN	I-a		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
93	M - 4.1.5	12	Geologic Hazards - Liquefaction	ongoing													✓	FRN	I-d										✓	FRN	I-g		✓	FRN	I-h					
94	M - 4.1.5	13	Design/Construction-Liquefaction	ongoing																																				
95	M - 4.1.5	14	Design/Construction-Containment Structures	ongoing																																				
96	M - 4.1.6	15	Refuse Slope Gradients	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
97	M - 4.1.6	16	Cut and Fill Slope Gradients	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
98	M - 4.1.6	17	Final Slope Factors of Safety	ongoing																																				
99	M - 4.1.6	18	Survey Monuments	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
100	M - 4.3.2	47	Landfill Liner	ongoing																																				
101	M - 4.3.2	48	Landfill Liner	ongoing																																				
102	M - 4.3.2	54	Preliminary Closure/Postclosure Plan	status																																				
103	M - 4.3.2	55	Landfill Design/Operation/Final Closure Monitoring	status																																				
104	M - 4.3.2	56	Cover Application	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
105	M - 4.14.1	155	Access Roadway Grade	ongoing													✓	FRN	I-d										✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
106	M - 4.18	178	Landfill Elevation Exceedance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-d		✓	C	NONE		✓	C	NONE		✓	FRN	I-g		✓	C	NONE		✓	C	NONE	
107																																								

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108	**Hydrologist**																																							
109																																								
110																																								
111	M - 4.1.4	11	Earthquake Operations Checklist	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
112	M - 4.3.1	36	Surface Water Infiltration Minimization	ongoing	✓	FRN	I-a																																	
113	M - 4.3.1	37	Surface Drainage Systems	ongoing					✓	FRN	I-b						✓	FRN	I-d										✓	FRN	I-g									
114	M - 4.3.1	38	Permanent/Temporary Ditches	ongoing					✓	FRN	I-b						✓	FRN	I-d										✓	FRN	I-g									
115	M - 4.3.1	39	Drainage Protection	ongoing					✓	FRN	I-b						✓	FRN	I-d										✓	FRN	I-g									
116	M - 4.3.1	40	SWRCB Permit Coverage	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
117	M - 4.3.1	41	Surface Water Collection System	ongoing																																				
118	M - 4.3.1	42	Surface Water Quality Monitoring	ongoing																																				
119	M - 4.3.1	43	Sediment Basin Maintenance	ongoing																																				
120	M - 4.3.1	44	Final Landfill Cover	ongoing																																				
121	M - 4.3.1	45	Erosion Control Plan	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
122	M - 4.3.1	46	Preventive Maintenance Program	ongoing	✓	FRN	I-a										✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h					
123	M - 4.3.2	49	Interception of Groundwater Seepage	ongoing					✓	C	NONE						✓	C	NONE																					
124	M - 4.3.2	50	LCRS/Leachate Monitoring	ongoing																																				
125	M - 4.3.2	51	LCRS Monitoring	ongoing																																				
126																																								
127	**Biologist**																																							
128																																								
129																																								
130	M - 4.1.1	6	Slope Erosion Control	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
131	M - 4.2.11	23	Revegetation/Excavation	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
132	M - 4.2.12		Temporary Vegetation Cover	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
133	M - 4.4.1	60	Coastal Sage Scrub Mitigation Plan	ongoing					✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g									
134	M - 4.4.1	61	Coastal Sage Scrub Seeding	ongoing																																				
135	M - 4.4.1	62	Mariposa Lily Mitigation Plan	ongoing	/				/				/								/				/				/				/				/			
136	M - 4.4.1	63	San Diego Horned Lizard Mitigation	ongoing	/				✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		/				/				/				/				/			
137	M - 4.4.1	64	California Gnatcatcher Surveys	ongoing	/				/				/				/				/				/				/				/				/			
138	M - 4.4.1	65	Least Bell's Vireo Surveys	ongoing	/				/				/				/				/				/				/				/				/			
139	M - 4.4.1	66	Western Burrowing Owl Surveys	ongoing	/				/				/				/				/				/				/				/				/			

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140	M - 4.4.1	67	Migratory Bird Treaty Act	ongoing	/				/				✓	FRN	I-c		/				/				/				/				/				/			
141	M - 4.4.1	68	Raptor Nests Habitat	ongoing	/				/				/				/				/				/				/				/				/			
142	M - 4.4.3	72	Native Tree Mitigation	ongoing																	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
143	M - 4.4.3	73	Nonnative Tree Mitigation	status																	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
144	M - 4.4.3	74	Mitigation Tree Planting	ongoing																	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
145	M - 4.4.3	75	Tree Planting Mitigation Site Prep	ongoing																	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
146	M - 4.4.3	76	Poultry Wire Screen	ongoing																	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
147	M - 4.4.3	77	Backfill Material	ongoing																	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
148	M - 4.4.3	78	Tree Planting Procedure	ongoing																	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
149	M - 4.4.3	79	Tree Area Mulching	ongoing																	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
150	M - 4.4.3	80	Tree Irrigation/Fertilization	ongoing																	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
151	M - 4.4.3	81	Irrigation System	ongoing																																				
152	M - 4.4.3	82	Annual Tree Monitoring Report	annual									✓	FRN	I-c																									
153	M - 4.9.2	96	Vector Activity Monitoring	ongoing																																				
154	M - 4.9.2	97	Vector Elimination	ongoing																																				
155	M - 4.9.2	98	Fly Control	ongoing																																				
156	M - 4.9.2	99	Rodent Control	ongoing																																				
157	M - 4.9.2	100	Operational Vector-Limiting Activity	ongoing																																				
158	M - 4.9.2	101	Equipment Cleanliness/Maintenance	ongoing																																				
159	M - 4.9.2	102	Storage of Vector-Attracting Items	ongoing																																				
160	M - 4.9.2	103	Salvaged Material Storage-Vector Control	ongoing	✓	C	NONE														✓	C	NONE		✓	C	NONE										✓	C	NONE	
161	M - 4.9.2	104	Periodic Vector Inspections	ongoing																																				
162	M - 4.9.2	105	Implementation of Vector Control Measures	ongoing																																				
163																																								
164	**Air Quality & Noise Specialist**																																							
165																																								
166																																								
167	M - 4.2.11	19	Emissions Mitigation Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
168	M - 4.2.11	19	Construction Curtailing due to Pollution	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
169	M - 4.2.11	20	Dust Lofting Minimization	ongoing	✓	FRN	I-a										✓	FRN	I-d																					
170	M - 4.2.11	21	Wind Speed Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	

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171	M - 4.2.11	22	Grading-Dust Reduction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
172	M - 4.2.12	24	Construction Equipment Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
173	M - 4.2.12		Construction Curtailing due to Pollution	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
174	M - 4.2.12	25	Refuse Trucks-Maintenance	ongoing																																				
175	M - 4.2.12		Refuse Trucks-Engine	ongoing																																				
176	M - 4.2.12		Refuse Trucks-Fee Schedule	ongoing																																				
177	M - 4.2.12		Refuse Trucks-Fee Schedule Delivery Time	ongoing																																				
178	M - 4.2.12		Refuse Trucks-Idling	ongoing																																				
179	M - 4.2.12		Refuse Trucks-Emissions	ongoing																																				
180	M - 4.2.12	26	Truck Travel and Fugitive Dust Emissions	ongoing																																				
181	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																																				
182	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																																				
183	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																																				
184	M - 4.5.2	83	Landfill Hours	info	/				/				/				/				/				/				/				/				/			
185	M - 4.5.2	84	Landfill Equipment-Noise Reduction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
186																																								
187	**Hydrology, Hazardous Waste / Risk of Upset**																																							
188																																								
189																																								
190	M - 4.3.2	53	Groundwater Monitoring Wells	ongoing																																				
191	M - 4.3.2	58	Operation as Class III Landfill	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
192	M - 4.3.2	59	Underground Fuel Storage	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
193	M - 4.9.1	90	Refuse Inspection Program	ongoing																																				
194	M - 4.9.1	91	Hazardous Waste Load-Checking	status																																				
195	M - 4.9.1	93	Hazardous Waste Detection Training	status									✓	C	NONE																									
196	M - 4.9.1	94	Spill Response Program	status					✓	FRN	I-b		✓	C	NONE						✓	FRN	I-e						✓	FRN	I-g		✓	FRN	I-h					
197	M - 4.9.4	115	Safety Inspections/Checklists	ongoing									✓	C	NONE																									
198	M - 4.9.4	118	Accident/Injury reports, Inspections	status									✓	C	NONE																									
199	M - 4.9.4	121	Fire Prevention Plan	ongoing					✓	FRN	I-b														✓	FRN	I-f													
200	M - 4.9.4	123	Personal Protective Equipment	ongoing									✓	C	NONE																									
201	M - 4.9.4	125	Site Access/Fencing	ongoing	✓	FRN	I-a										✓	FRN	I-d						✓	C	I-f						✓	C	I-h					

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202	M - 4.14.1	147	Fire Response Capabilities	ongoing									✓	C	NONE																									
203	M - 4.14.1	148	Hydrant Installation	ongoing																																				
204																																								
205	**Archaeologist**																																							
206																																								
207																																								
208	M - 4.19.1	183	Archaeological Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		✓	C	I-d		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
209	M - 4.19.1	184	Onsite Archaeologist	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE						✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
210	M - 4.19.1	185	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE						/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
211	M - 4.19.1	186	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE						/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
212																																								
213	**Paleontologist**																																							
214																																								
215																																								
216	M - 4.19.2	187	Paleontological Resources Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
217	M - 4.19.2	188	Paleontological Resources Excavation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE						/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
218	M - 4.19.2	189	Paleontological Resources Training	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE						✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
219	M - 4.19.2	190	Paleontological Resources Recovery	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE																									
220	M - 4.19.2	191	Paleontological Resources Inspection	ongoing	/	NA	NONE		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	

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

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

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

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96	Recycling - 14.03		Tonnage Disposal Determination	info	/				/				/				/				/				/				/				/				/			
97	Recycling - 14.04		Recycling-Various Tasks	info	/				/				/				/				/				/				/				/				/			
98			Clean Dirt Procedures																																					
99	Site - 15.11		Reclaimed Water Utilization	status	/				/				/				/				/				/				/				/				/			
100	Site - 15.12		Water Conservation Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
101	Admin Rpts/Pgms - 17.4		Operation Compliance	info	/				/				/				/				/				/				/				/				/			
102	Admin Rpts/Pgms -17.10		Fill Sequencing Plans	status																																				
103	Admin Rpts/Pgms-17.15		Quarterly Newsletter	status																																				
104	Landfill Operation - 18.7		Graffiti Removal/Deterrent Plan	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
122																																								
123	**Civil & Geotechnical Engineer**																																							
124																																								
125																																								
126	Revegetation - 44.C	44.C	Cut Slope Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
127																																								
128	Geology - 1.01		Survey Monument Locations	ongoing																																				
129	Geology - 1.02		Seismic Design	ongoing																																				
130	Geology - 1.03		Maximum Refuse Slope Gradients	ongoing																																				
131	Geology - 1.04		Maximum Refuse Slope Gradients	ongoing																																				
132	Geology - 1.05		Unsuitable Material Procedures	ongoing																																				
133	Geology - 1.06		Grading Activities Procedures	ongoing																																				
134	Geology - 1.07		Grading Activities Procedures	ongoing																	✓	C	I-e						✓	C	I-g		✓	C	I-h		✓	C	I-i	
135	Geology - 1.09		Outer Perimeter Ridgeline Requirements	info																																				
136	Geology - 1.12		Soil Stabilization	ongoing																																				
137	Geology - 1.16		Checklists/Surveys Following Earthquake	upon event	✓	FRN	I-a																						✓	FRN	I-g									
138	Geology - 1.18		Alluvium-Removal/Replacement	ongoing																																				
139	Geology - 1.19		Landfill Design/Construction	ongoing																																				
140	Geology - 1.20		Landfill Design/Construction-Foundations	ongoing																																				
141	Surface Water - 2.03		Surface Drainage Control Facilities	ongoing	✓	FRN	I-a																						✓	FRN	I-g									
142	Surface Water - 2.05		Underdrain Requirements	ongoing																																				
143	Surface Water - 2.06		Final Cover for Surface Water Runoff Control	ongoing																																				
144	Groundwater - 3.02		Liner System Requirements	ongoing																																				

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145	Groundwater - 3.04		Onsite Inspector for Liner Installation	ongoing																																		
146	Groundwater - 3.09		Alluvium Removal	ongoing																																		
147	Visual – 10.01		Landfill Elevations	ongoing																																		
148	Visual – 10.02		Final Fill Elevations	ongoing																																		
149																																						
150	**Hydrologist**																																					
151																																						
152																																						
153	Grading & Drainage - 38	38	Installation of Drainage Structures	ongoing																																		
154																																						
155	Geology - 1.17		Landfill Design/Construction-Seismic	ongoing																																		
156	Surface Water - 2.01		Surface Water Runoff Interception	ongoing																																		
157	Surface Water - 2.02		Surface Water Runoff Collection	ongoing																																		
158	Surface Water - 2.03		Surface Drainage Control-Maintenance	ongoing	✓	FRN	I-a														✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h				
159	Surface Water - 2-04		Sedimentation Basin Capabilities	ongoing																																		
160	Surface Water - 2.05		Underdrain Placement	ongoing																																		
161	Surface Water - 2.07		Drainage Control System Design Approval	ongoing																																		
162	Surface Water - 2.08		Surface Water Runoff-Drainage System	ongoing																																		
163	Surface Water - 2.10		Surface Water Collection System-Monitoring	ongoing																																		
164	Surface Water - 2.11		Surface Water Quality-Collection/Monitoring	ongoing																																		
165	Surface Water - 2.12		Permanent/Temporary Drainage Facilities	ongoing																									✓	FRN	I-g								
166	Surface Water - 2.13		Permanent/Temporary Drainage Facilities	ongoing																																		
167	Surface Water - 2.14		Erosion Control Plan	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i
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-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i
176	Revegetation - 44.B	44.B	Interim Reclamation/Revegetation Plan-Sold Waste	ongoing																																		
177	Revegetation - 44.D	44.D	Final Fill Slope Requirements	ongoing																																		

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178	Revegetation - 44.E	44.E		ongoing																																		
179																																						
180	Geology - 1.13		Drainage Plan Approval	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
181	Geology - 1.14		Personnel Retention for Monitoring Soil Erosion	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
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	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	I-g		✓	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-a		✓	FRN	I-b										✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g									
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		✓	FRN	I-c		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
195	BIOTA – 4.34		Raptor Nests Habitat	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
196	BIOTA – 4.36		Personnel Retention for Monitoring Revegetation Plan	ongoing																																		
197	BIOTA – 4.37		Personnel Retention for Monitoring Revegetation Plan, Onsite Plants	status																																		
198	BIOTA – 4.38		Green Waste Material	ongoing																																		
199	BIOTA – 4.39		Revegetation of Slopes/Fill Areas	ongoing																																		
200	BIOTA – 4.41		Revegetation Plan-Replacement Cover	ongoing																																		
201	BIOTA – 4.42		Interim Vegetation	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
202	BIOTA – 4.43		Replacement Riparian Habitat	status													✓	FRN	I-d						✓	FRN	I-f													
203	Air Quality - 6.02		Dust Control	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
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-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
207	Visual – 10.08		Solid Waste Disposal Procedures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
208	Visual – 10.08		Final Cut Slope Steepness	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
209	Visual – 10.08		Final Fill Slopes-Reclamation/Revegetation	status																																		

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210	Visual – 10.08		Revegetation Requirements	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
211	Visual – 10.09		Final Cover Composition Requirements	ongoing																																		
212	Visual – 10.10		Buffer Zone Maintenance	ongoing																																		
213	Water Conservation - 11.02		Plant Species	ongoing																																		
214	Fire Service - 12.01		Brush Clearance Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
215																																						
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	
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	
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	
227	Air Quality – 6.01		Erosion Control-Daily Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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	
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	
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	
232	Air Quality – 6.01		Access Roads-Paving	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
233	Air Quality – 6.01		Dust Generation-Dumping	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
234	Air Quality – 6.01		Water Tanks/Piping Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
235	Air Quality – 6.01		Wind Speed Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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	/				/				/				/				/				/				/				/				/			

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241	Odor/Landfill Gas – 7.03		LFG Collection System Monitoring	ongoing	/				/				/				/				/				/				/				/				/			
242	Noise – 9.01		Landfill Access/Operation	info	/				/				/				/				/				/				/				/				/			
243	Noise – 9.03		Landfill Equipment-Mufflers/Silencers	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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																																				
251																																								
252	Groundwater - 3.05		Leachate Collection and Removal System	ongoing																																				
253	Groundwater - 3.15		Underground Diesel Fuel Storage Tanks	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
254	Fire Service - 12.02		On-site Fire Response Capabilities-Operating Equipment	ongoing	✓	C	NONE																																	
255	Fire Service - 12.03		On-site Fire Response Capabilities-Roads/Water	ongoing					✓	FRN	I-b																													
256	Fire Service - 12.04		On-site Fuel Storage Tanks-Permit Issuance	ongoing																																				
257	Fire Service - 12.05		Building Limits	ongoing																																				
258	Fire Service - 12.06		Methane Gas Monitoring-On-site Structures	ongoing	✓	C	NONE																																	
259	Hazardous Materials – 13.02		Waste Load Checking Program	ongoing																																				
260	Hazardous Materials – 13.05		Hazardous Waste Disposal	ongoing	✓	C	NONE																																	
261	Hazardous Materials – 13.10		Hazardous Waste-Procedures	ongoing																																				
262	Hazardous Materials – 13.11		Spill Response Program	ongoing					✓	FRN	I-b										✓	FRN	I-e				I		✓	FRN	I-g		✓	FRN	I-h					
263	Safety - 16.02		Injury and Illness Prevention Program	status																																				
264	Safety - 16.03		Working Conditions-Monitoring	status																																				
265	Safety - 16.04		Inspection Checklist-Work Area Exposure	status																																				
266	Safety - 16.07		Accident/Injury Reports	status																																				
267	Safety - 16.08		First-aid Kits	ongoing																																				
268	Safety - 16.10		Lockout/Blackout Procedures	status																																				
269	Safety - 16.11		Personal Protective Equipment	status																																				
270	Landfill Operation - 18.8		Prohibited Waste Procedures	ongoing																																				
271																																								
272	**Archaeologist**																																							

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Sunshine Canyon Landfill County Mitigation Monitoring Summary
(04-01-2015 through 06-30-2015)

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	First Quarter																Second Quarter																	
					1/7/2015	Status*	Further Review Needed/Comments**	Resolved*	2/13/2015	Status*	Further Review Needed/Comments**	Resolved*	2/26/2015	Status*	Further Review Needed/Comments**	Resolved*	3/24/2015	Status*	Further Review Needed/Comments**	Resolved*	4/9/2015	Status*	Further Review Needed/Comments**	Resolved*	4/23/2015	Status*	Further Review Needed/Comments**	Resolved*	5/27/2015	Status*	Further Review Needed/Comments**	Resolved*	6/9/2015	Status*	Further Review Needed/Comments**	Resolved*	6/24/2015	Status*	Further Review Needed/Comments**	Resolved*
273																																						
274																																						
275	Ecological Significance - 62	62	Archaeological/Paleontological Identification/Conservation Program	ongoing													✓	C	I-d						✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m	
276	IMP - Part VII.B	IMP7	Archaeological/Paleontological Report Submis	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
277	Archaeological – 5.01		Archaeological Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
278	Archaeological – 5.02		Onsite Archaeologist	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
279	Archaeological – 5.03		Onsite Paleontologist	ongoing	✓	C	I-e		✓	C	I-b		✓	C	I-c		✓	C	I-d																					
280	Archaeological – 5.04		Archaeological/Paleontological Identification Instruction	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
281	Archaeological – 5.05		Archaeological Resource Curation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
282																																						
283	**Paleontologist**																																					
284																																						
285																																						
286	Ecological Significance - 62	62	Archaeological/Paleontological -Material Identification/Conservation	ongoing					✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
287	IMP - Part VII.B	IMP7	Archaeological/Paleontological-Report Submission	ongoing					✓	C	I-b		✓	C	I-c		✓	C	I-d																					

*** 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

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Appendix I

Further Review Needed-Comments/ I-e through I-i
Second Quarter 2015 Site Visits

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Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed-Comments
Project Manager	Q – B.2.c		City Planning	I-e: The temporary basins and the alluvial soils under them were removed for the access road realignment. Excavation, underdrains and compacted soil placement was preparing the area for a liner. Road construction excavation was being done in all areas of the road realignment. I-g: All alluvial was removed and liner placed where the temporary access road would be built inside the future landfill footprint. I-h: Liner installation in the access road realignment area is nearing completion. A graded roadway is nearing completion in most areas. I-i: Roadway construction and drainage V-ditches are estimated to be completed in July. I-e through I-i: Periodically, a Republic biological consultant surveyed those areas of the access road realignment construction that had vegetation for nesting birds until the vegetation was removed. Periodically, a Republic biological consultant surveyed those areas of the access road realignment construction that had vegetation for nesting birds until the vegetation was removed.
		Geology - 1.07	County DPW EPD/County LEA	I-e, I-g, I-h, and I-i: See Q – B.2.c above.
		Geology - 1.11	County DPW EPD/County LEA	I-e, I-g, I-h, and I-i: See Q – B.2.c above.
	Q – B.2.d		City Planning	I-e: The City Planning department presented the Phase III (10-year Phase Review) condition at the April 2, 2015 TAC meeting. The 10-year review will be started by the City Planning Department.
	Q - C.10.c		City Planning	I-e: The gas-to-energy facility was shut down to perform an operational check/ turnaround. It was noted during our monitoring that the main automatic gas shut-off valve from the flare blowers to the gas-to-energy facility was leaking hydraulic oil. It was also noticed that one of the flare blower's discharge rubber expansion joints was ballooning out when operating at the observed maximum flow and high gas temperatures. Republic and Sunshine Gas Producers were notified of these observed conditions. I-f: The gas-to-energy staff stated that the April 9, 2015 turn-around did not uncover any operational concerns. The facility was operating at full capacity. I-g and I-h: The gas-to-energy facility was operating at maximum generation with no operational problems. I-i: A summary of the landfill gas generated and the beneficial use of the landfill gas should be included in the annual report.
		Odor/Landfill Gas - 7.07	County Planning/SCAQMD SCL-LEA	I-e through I-i: See Q - C.10.c above.
		Gas - 52	County DPW EPD/SCL-LEA County Forester Fire Warden	I-e through I-i: See Q - C.10.c above.
	M - 4.1.4 / 11		City Planning/ SCAQMD LARWQCB Cal Recycle LADBS PW-BOE	I-g: A new foundation and enclosure for the on-site seismic detection and recorder equipment was installed at the underdrain and recycled water handling facility. New seismic detection and recording equipment has been placed on order. The schedule for the installation of the new equipment had not been set.
	T-4		City Planning, City Fire Department	I-h: Upon completion of the access road realignment construction, a plot plan showing the relocated offices, scales and scale house, fire access roads and ingress and egress roads should be submitted to the City Fire Department for their use. This information should also be posted for employee and customer use.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed-Comments
Project Manager	M - 4.2.12 / 28		City Planning/SCAQMD SCL-LEA	I-i: Blowing dust was observed due to gusty winds and dry conditions on the unvegetated top decks. Trucks delivering wet weather rubble and asphalt were also causing dust clouds due to inadequate watering of the dirt roadways used. Soil sealant and additional recycled water usage should be investigated.
	M - 4.2.13 / 33		City Planning/SCAQMD	I-e: It was observed that the working landfill face was exposed to the south when being filled causing an odor to be detected on the main access road. No odor was detected offsite. Republic staff was notified of this observation. I-f: The odor abatement air freshener system piping on the block wall adjacent to San Fernando Rad near the landfill entrance was dismantled and the pump system was not in operation. I-g: The leachate treatment system had a slight odor near tank T-203. A Republic maintenance person was cleaning and repairing gas well condensate pumps at this facility. No odor was detected offsite. I-h: We observed that a new gas condensate sump was being installed near the old city truck scales site. The sump was being commissioned by BAS/Tetra Tech personnel. The 24-inch HDPE line feeding gas condensate to the sump was leaking liquid from a temporary PVC cap taped to the end of the line. Liquid was ponding on the ground. Republic staff was notified and aware of the condition and had the contractor working on it. At the end of monitoring when leaving the site, the condensate wetted soil was being removed, the leak was stopped, and new soil was being placed at the location. Between 10:15 A.M. and 10:30 A.M., we monitored the old GSF plant site in the oil field. At the site gate, we could smell the operating landfill face. This was a constant odor. Republic staff was notified of this occurrence. They stated that the Dust Boss equipment was turned off at about 10:00 A.M. This might be a coincidence or there may be a direct cause and effect between running and not running the Dust Boss. No odor was detected off Republic property. I-i: Construction for the new Cell CC-3B severed the buried under-drain and condensate collection HDPE piping. The liquids from these systems were being collected in surface ponds and handled by pumps. The condensate liquid had odors detected approximately 100 feet away from the pond. Republic was notified and staff stated this was a temporary condition. No odors were detected offsite.
	M -4.2.13/ 29, 30, 32, 34		City Planning/SCL-LEA/SCAQMD	I-e through I-i: Compliance with these mitigation measures, concerning landfill gas monitoring and odor control and detection, is being monitored by a multi-agency team led by the SCAQMD. Only obvious gas emission sources, odorous operations related to gas and/or gas and landfill liquids, lack of cover, or exposed trash resulting in odor observed during the monitoring visit will be reported.
		Amendment 45.N - 4.a, 4.c, 4.d	County DPW-EPD	I-e through I-i: See M-4.2.13/29, 30, 32, and 34 above.
		Amendment 45.N - 5	County DPW-EPD	I-e through I-i: See M-4.2.13/29, 30, 32, and 34 above.
		Surface Water - 2.15	County DPW EPD/ LARWQCB, SCL- LEA	I-e through I-h: See M-4.3.1/46 below.
		Odor/Landfill Gas - 7.06	County DPW-EPD/SCL-LEA/SCAQMD	I-e through I-i: See M-4.2.13/33 above.
	M - 4.4.2/69		City Planning	I-f: The Corps of Engineers provided final comments to the Republic/City agreement to use Chatsworth Reservoir as a wetlands mitigation site. Republic transmitted these comments to the City Attorney the same day. The City Attorney has not yet finalized the agreement.
		Biota - 4.4.3	CDFW	I-f: See M - 4.4.2 / 69 above.
	M – 4.9.3/112		City Planning	I-g and I-i: Wind-blown litter was observed on the native vegetation hillsides of Basin A and Basin B. Litter was not observed elsewhere.
		Visual – 10.11	SCL-LEA	I-g and I-i: see M – 4.9.3/112 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed-Comments
Civil and Geotechnical Engineer	M - 4.1.1 / 2		City Building and Safety City Planning	I-g and I-h: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 4		City Planning/LARWQCB Cal Recycle	I-g and I-h: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 5		City Planning/ LARWQCB Cal Recycle	I-g: The realigned access road grading activities were on-going, with scrapers moving dirt to raise the elevation from the terminal basin to the old condensate treatment pad. The hillside adjacent to the oil field road was being graded to lower its elevation to that of the oil field road. The transition to the existing access road was staked and vegetation and trees removed. A small block wall (non-retainer type) had soil sloughing against and on top of it from the adjacent grading activity. This wall may not support the load. The only compaction seen was that of track rolling with a dozer and wheel loading by the scrapers. No compaction rollers were seen being used. It is assumed that the compaction of the fill is being monitored and meets the standards specified in the geotechnical report prepared for the work in accordance with these conditions. (Note that we did not review a geotechnical report of design documents.) I-h: The grading activities for the realignment of the access road was on-going, with the underdrain system and liner being installed. Republic's geotechnical engineer stated that a rubber-tired CAT-A23 was being used to obtain compaction and that tests were being done with a nuclear gauge. Test results will be in the final report.
		Geology - 1.07	County DPW EPD/ County LEA	I-g and I-h: See M - 4.1.1 / 5 above.
	M – 4.1.4/11		City Planning	I-g: See 4.1.4/11 above under Project Manager.
		Geology – 1.16	County DPW EPD / County LEA	I-g: See 4.1.4/11 above.
	M - 4.1.5 / 12		City Planning/LARWQCB Cal Recycle	I-g and I-h: Replacement of removed alluvium soils with compacted structural fill is being monitored by Republic's geotechnical consultant. See M - 4.1.1 / 5 above.
	M - 4.14.1 / 155		City Planning/Cal Recycle PW-BOE LADBS City LEA	I-g, I-h, and I-i: Construction of the access road realignment is on-going. The construction design drawings have not been available for review so that compliance with this condition cannot be monitored and verified.
	M - 4.18 / 178		City Planning/City LEA	I-g: This condition was not monitored. Documents showing current filled elevations should be available onsite for review.
Hydrologist	M - 4.3.1/ 37, 38		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	I-g: It is assumed herein that the permanent drainage channels are designed in accordance with the referenced regulations. The design drawings and reports should be available for review.
		Surface Water - 2.12	County DPW EPD/ LARWQCB SCL-LEA	I-g: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 39		City Planning/LARWQCB Cal Recycle	I-g: A map showing areas that are at the final elevations and should have final cover should be available for review. This condition was not monitored.
	M - 4.3.1 / 40		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-e through I-i: 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	I-e through I-i: The erosion control plan should be available onsite for review. This plan should be a living document that keeps up with construction activities.
		Surface Water - 2.14	County DPW EPD/ LARWQCB County LEA	I-e through I-i: See M - 4.3.1/45 above.
	M - 4.3.1/ 46		City Planning/ LARWQCB CalRecycle PW-BOE	I-e: Basin A and Basin B had standing water around the outlet risers. Sediment in the rock boulders around the risers block total drainage. The other sediment in the basins was removed. I-f: The westside drainage channel had a broken and uplifting floor and broken and spalling sidewalls in the area east and south of the County sage area. This was noted on prior site monitoring visits. There were deep holes around the City sewer connection to the liquid holding and lift vaults due to a lack of compaction when installed and prior rain events causing settlement and erosion. These areas should be fixed. The preventative maintenance plan should be available on site for review along with report of inspection of the structures and status for scheduling necessary repairs. I-g: Conditions of channel of the westside between Basin A and Basin D is getting worse. Floor slabs are uplifted more than ever with heavy vegetation growing. Side walls are cracked. The downchute V-ditch from the County sage area does not drain over wall as designed but is separated from the wall, and water flows behind the wall and under the floor. The preventative maintenance plan should be available on site for review along with report of inspection of the structures and status or scheduling necessary repairs. I-h: Republic had their geotechnical consultant evaluate the westside drainage channel condition and is preparing a plan for necessary repairs. Republic will budget repairs for 2016.
		Surface Water - 2.15	LARWQCB / County DPW EPD	I-e through I-h: See M - 4.3.1/ 46 above.
Biologist	M - 4.1.1 / 6		City Planning/ LARWQCB CalRecycle SCL-LEA LADBS	I-e through I-i: The germination of hydroseeding on interim and inactive slopes had minimal success due to the lack of irrigation with potable water. The use of alternatives to hydroseeding on interim and inactive slopes for slope stability and dust control should be considered during this drought period. I-e: Two types of slope stability netting (plastic and jute) were being used on the south-facing slopes of Cell CC-3A. A performance test was being done by the landfill on these two slope stability options.
		Geology - 1.14	LARWQCB/ County Forester	I-e through I-i: See M - 4.1.1/6 above.
	M - 4.2.11 / 23		City Planning	I-e through I-i: See M - 4.1.1/6 above.
		Geology - 1.13	County DPW EPD/ County Forester LARWQCB	I-e through I-i: See M - 4.1.1/6 above.
	M - 4.2.12		SCL-LEA/ City Planning	I-e through I-i: See M - 4.1.1/6 above.
		Revegetation - 44.A	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-e through I-i: See M - 4.1.1/6 above.
		Revegetation - 44.F	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-e through I-i: See M - 4.1.1/6 above.
		Biota - 4.42	SCL-LEA	I-e through I-i: See M - 4.1.1/6 above.
		Air Quality - 6.02	SCAQMD/ SCL-LEA	I-e through I-i: See M - 4.1.1/6 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed-Comments
Biologist		Visual - 10.08	County Forester	I-e through I-i: See M - 4.1.1/6 above.
		Biota - 4.11	County Forester	I-g: The surviving Big Cone Fir trees that were planted in 2010 were doing well. New Big Cone Fir seedlings were planted and not yet tagged. These seedlings were doing well.
	M - 4.4.1 / 60		City Planning	I-e: City sage mitigation Deck C was doing well. The predominant plant was salt bush with other native plants, including sage, growing in the understory in some locations. The PM-10 berm oak trees were doing well in all areas except for the ridgeline saddle where the high winds have stunted their growth. The understory PM-10 vegetation could be planted in all but the saddle area. I-f: The City Deck C sage mitigation was doing well. Some of the vegetation had died due to the warm summer-like conditions and the changing of the season. These plants will most likely resprout in the fall. I-g: Deck C sage mitigation was doing well with the predominant plant being salt bush. The PM-10 oak trees at the Deck C berm, except in the low point, appear to be tall and healthy. The planting of the understory trees has not been done. Mustard plants were taking over portions of Deck A and Deck B.
		Biota - 4.27	County LEA/CDFW	I-e, I-f, and I-g: See M - 4.4.1 / 60 above.
Hydrology, Hazardous Waste / Risk of Upset	M - 4.9.1 / 94		City Planning/LARWQCB Cal Recycle City LEA	I-e and I-g: Heavy equipment was parked near Basin A and on the Old City North top deck with no oil drip containment. I-h: The Old City North top deck had heavy equipment parked with no oil drip containment.
	M - 4.9.4 / 121		City Planning/Cal Recycle Cal OSHA LAFD City LEA	I-f: Cigarette butts were observed around the Flare 9 and Flare 10 blower skids.
	M-4.9.4/125		City Planning/ CalRecycle Cal OSHA SCL-LEA	I-f and I-h: The south perimeter oil field gate was observed to be locked.
Paleontologist	M-4.19.2/191		City Planning	I-e through I-h: A paleontological consultant was on site monitoring the excavation west and south of the offices in City and County jurisdictions. No recoverable resources were encountered; only minor non-recoverable fragments. I-e through I-i: A paleontological consultant was monitoring the access road realignment grading. Paleontological reports are on file and are available in Republic's offices.
		Ecological Significance 62	County Planning	I-e through I-i: See M-4.19.2/191 above.

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Appendix II
Relevant Site Photos

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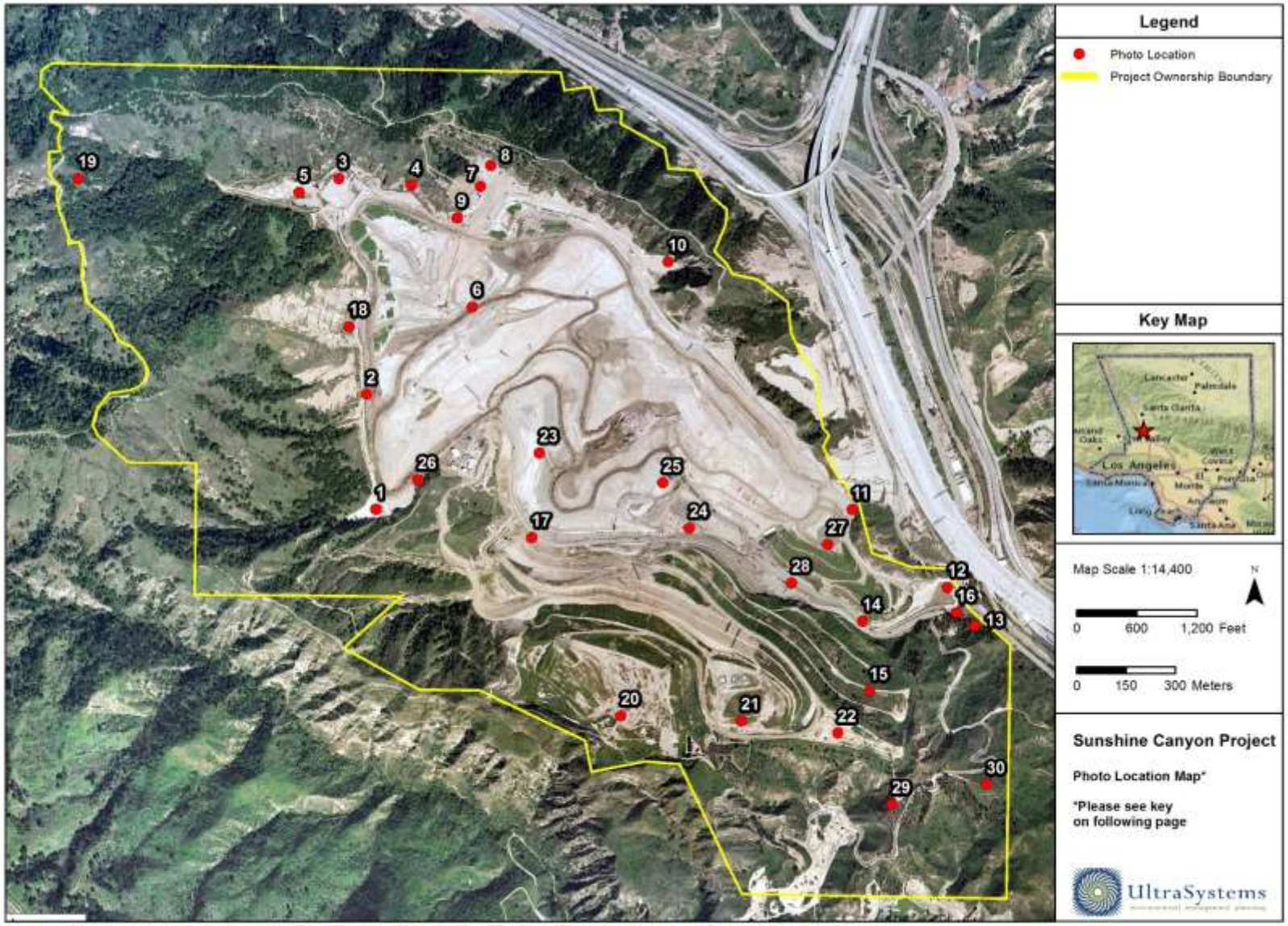
Legend
Photo Location
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Sunshine Canyon Project
Photo Location Map*
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UltraSystems
Service Layer Credits: National Geographic, Esri, DeLorme, NAVTEQ, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, iPC, Los Angeles County, 2010; Republic, 2013;
UltraSystems Environmental, Inc., 2014-2015

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Photo Location Map Key

Map Location	Title	Photo Number
1.	Basin A	1-39
2.	Westside Drainage Channel	40-74
3.	Basin D	-
4.	Basin D North Drainage	75-78
5.	Materials Storage Area	79
6.	County Top Deck	80-117
7.	Flares 8-10	118-121
8.	Gas-to Energy Facility	-
9.	Flares 8-10 Adjacent Hillsides	125-141
10.	Basin B	145-151
11.	Eastside Drainage Channel	153-154
12.	Terminal Basin	155-185
13.	Wastewater Sewer Connection Facility	-
14.	Existing Access Road	-
15.	Access Road Realignment Area	186-280
16.	Leachate Treatment Facility	281-285
17.	New Truck Scale Facilities	286-287
18.	County Sage Mitigation Area	288-292
19.	Big Cone Fir Mitigation	293-309
20.	City Sage Mitigation – Deck A	310-314
21.	City Sage Mitigation – Deck B	315-318
22.	City Sage Mitigation – Deck C	319-343
23.	Cell CC3A	-
24.	Cell CC3A Buttress Area	-
25.	Site Working Area	382-435
26.	Site Grading West of Office	344-348
27.	Old City North	349-375
28.	Condensate Treatment Facility	-
29.	PM-10 Mitigation Planting	376-381
30.	Oak Tree Mitigation along Oil Field Road	-

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Photo 1: Basin A: April 9, 2015

Photo 2: Basin A: April 9, 2015

Photo 3: Basin A: April 9, 2015

Photo 4: Basin A: April 23, 2015

Photo 5: Basin A: April 23, 2015

Photo 6: Basin A: April 23, 2015

Photo 7: Basin A: May 27, 2015

Photo 8: Basin A: May 27, 2015

Photo 9: Basin A: May 27, 2015

Photo 10: Basin A: May 27, 2015

Photo 11: Basin A: June 9, 2015

Photo 12: Basin A: June 9, 2015

Photo 13: Basin A: June 9, 2015

Photo 14: Basin A: June 9, 2015

Photo 15: Basin A: June 9, 2015

Photo 16: Basin A: June 24, 2015

Photo 17: Basin A: June 24, 2015

Photo 18: Basin A: June 24, 2015

Photo 19: Basin A Hillside: April 9, 2015

Photo 20: Basin A Hillside: April 9, 2015

Photo 21: Basin A Hillside: April 9, 2015

Photo 22: Basin A Hillside: April 9, 2015

Photo 23: Basin A Hillside: April 23, 2015

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Photo 28: Basin A Hillside: April 23, 2015

Photo 29: Basin A Hillside: May 27, 2015

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Photo 31: Basin A Hillside: May 27, 2015

Photo 32: Basin A Hillside: June 9, 2015

Photo 33: Basin A Hillside: June 9, 2015

Photo 34: Basin A Hillside: June 9, 2015

Photo 35: Basin A Hillside: June 24, 2015

Photo 36: Basin A Hillside: June 24, 2015

Photo 37: Basin A Hillside: June 24, 2015

Photo 38: Basin A Hillside: June 24, 2015

Photo 39: Basin A Hillside: June 24, 2015

Photo 40: Westside Drainage Channel: May 27, 2015

Photo 41: Westside Drainage Channel: May 27, 2015

Photo 42: Westside Drainage Channel: May 27, 2015

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Photo 67: Westside Drainage Channel: June 9, 2015

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Photo 70: Westside Drainage Channel: June 9, 2015

Photo 71: Westside Drainage Channel: June 24, 2015

Photo 72: Westside Drainage Channel: June 24, 2015

Photo 73: Westside Drainage Channel: June 24, 2015

Photo 74: Westside Drainage Channel: June 24, 2015

Photo 75: Basin D Outlet Channel: June 24, 2015

Photo 76: Basin D Outlet Channel: June 24, 2015

Photo 77: Basin D Outlet Channel: June 24, 2015

Photo 78: Basin D Outlet Channel: June 24, 2015

Photo 79: Material Storage Area: June 24, 2015

Photo 80: County Top Deck: April 9, 2015

Photo 81: County Top Deck: April 9, 2015

Photo 82: County Top Deck: April 9, 2015

Photo 83: County Top Deck: April 9, 2015

Photo 84: County Top Deck: April 9, 2015

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Photo 90: County Top Deck: May 27, 2015

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Photo 99: County Top Deck: June 9, 2015

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Photo 102: County Top Deck: June 9, 2015

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Photo 104: County Top Deck: June 24, 2015

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Photo 110: County Top Deck: June 24, 2015

Photo 111: County Top Deck: June 24, 2015

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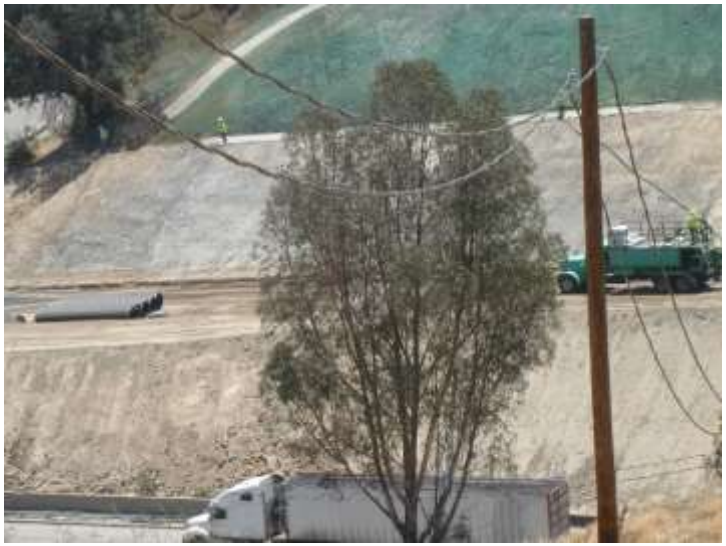

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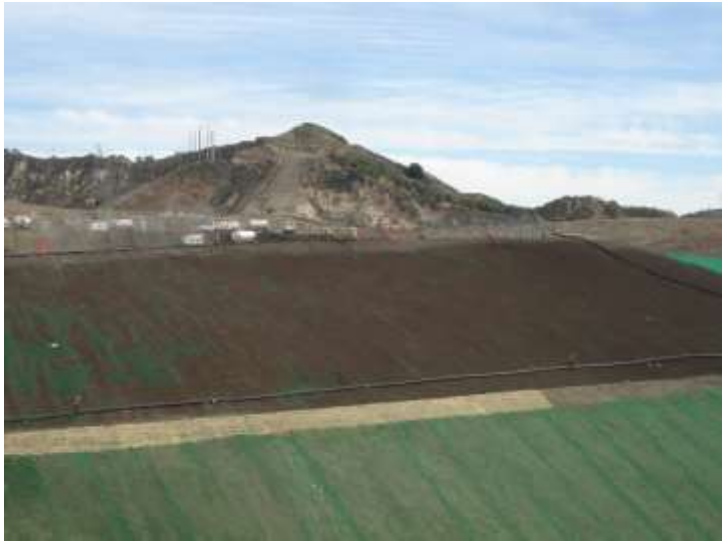

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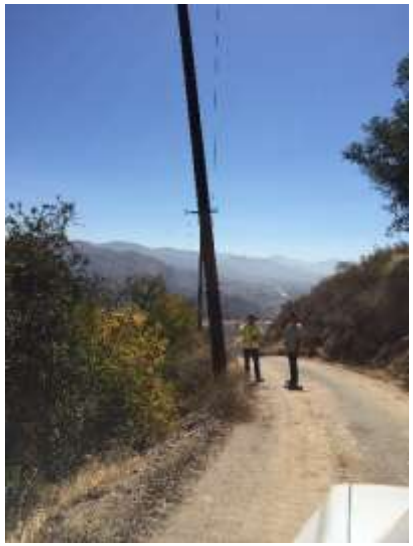

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Appendix III
Quarterly Site Visits: Site Visit Attendees by Date of Site Visit/ Mitigation Monitoring Site Reports

UltraSystems Staff	**Fields of Expertise:**
James Aidukas	Project Manager, Permitting and Operations/ Engineer
Mike Lindsay	Air Quality, Noise, Vehicle Emissions, Environmental Specialist/ Engineer
Wayne Wu	Air Quality, Noise, Hydrology, Hazardous Waste

SLR Staff	**Fields of Expertise:**
Tarik Hadj-Hamou	Geology

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April Site Visits

April 9, 2015:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

Wayne Wu (UltraSystems)

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 4/9/15
Site Conditions: Sunny, mild wind	

SITE LOG

Republic Site Manager - Rob Sherman

Drove the adjacent Granada Hills neighborhood and did not detect any landfill odors.

Met with Mike Lindsay and Wayne Wu (UltraSystems) and signed in at the landfill office. We had a brief conversation with Patti Costa and Achaya Kelapanda (Republic). The monitoring team then proceeded to the landfill site and observed the following:

- The working face was placing new trash with the operating face being exposed to the south and visible from the main access road. Fresh trash odors were smelled at the access road.
- Two types of slope stability netting (plastic and jute) were being used on the south facing slopes of cell CC-3A. A performance test was being done by the landfill on these two slope stability options.
- City sage mitigation Deck C was doing well. The predominant plant was salt bush with other native plants, including sage, growing in the understory in some locations.
- The PM-10 berm oak trees were doing well in all areas except for the ridgeline saddle where the high winds have stunted their growth. The understory PM-10 vegetation could be planted in all but the saddle area.
- The new scales were operating efficiently with very little truck stacking.
- The new site for the office relocation had rock in place and was being final-graded.
- The operation face was small and in cell CC-3A.
- The terminal basin had soil around the outlet risers and standing water adjacent to the soil. Most of the basin had the sediment removed.
- The access by-pass road was still under construction. The area east of the old condensate treatment pad had alluvial removed and under-systems were installed. This area's base was being prepared for the future liner placement.
- The remaining areas for the road realignment were also being graded with the roadwork grading appearing to be approximately 50% complete.
- Condensate sump CS-22 liquid leak that was observed on the March 24th monitoring visit was repaired.
- The Old City North top deck was being used for stockpiling of broken concrete and soil. Equipment was also being parked on the top deck.
- Basin B had standing water around the outlet risers. Most of the sediment had been removed. The hillsides around the basin were free of wind-blown litter.
- Basin A had standing water around the outlet risers. The basin had all of the sediment removed. The adjacent hillsides around the basin were free of wind-blown litter.
- The DTE gas-to-energy plant was down for a 6-month operations check/turnaround.

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Flare Operating Conditions:

- Flare 1 - 1685˚F, 2130 SCFM, -57.63" H_2O vacuum, inlet 80˚F, 1.5% O_2, 34% CH_4
- Flare 9 - 1682˚F, 5036 SCFM, -63" H_2O vacuum, 0.63% O_2, 47.4% CH_4
- Flare 10 - 1655˚F, 4088 SCFM

The blower skid for Flares 9 and 10 had an outlet gas temperature of 154˚F. The blower rubber expansion joints on the center blower were ballooning due to the high flow and high temperature.

It was observed that the hydraulic operator (red in color) on the shut-off valve for the gas feed to the energy plant was leaking oil. (This is located between the blower discharge and flare inlet piping.) The leaking seals should be replaced.

FURTHER REVIEW NEEDED

COMMENTS

Signed:

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

Monitor: **Mike Lindsay**	Page 1 of 2
Discipline: Environmental Engineer	Date: 04-09-15 Thur.
Site Conditions: Partly sunny, 58-73 °F, 3-13 mph	

SITE LOG

1. Met with Patti Casta, Achaya Kelapanda (Republic), Jim Aidukas, Wayne Wu (UltraSystems), and checked into office.
2. Observed working face, with trash over edge of berm towards south/access road.
3. City Deck C sage mitigation area is in good condition with saltbush dominating the habitat. Sage is surviving well.
4. Flare 1 is operating at 2086 SCFM, 1686 °F; inlet gas temperature is 110 °F, with Blower 1 in operation. Gas sample measured 29% Vol. CH4, 4.4% Vol. O2, 83 ppm H2S, 39 ppm CO.
5. Overall landfill operations including working face was viewed from observation deck.
6. Large corrugated pipe is being removed from alongside main haul road.
7. Terminal Sediment Basin is in good condition, with some standing water by vertical drains. Krail diverters relocated.
8. Observed Bypass Access Road construction, with connection nearly complete to Oil Field Road. Excavation and compaction ongoing.
9. Condensate sump #CS22 has had its leak repaired. No odors.
10. City North Deck is being used to store heavy equipment and stockpiled soil from Bypass Access Road excavation.
11. Sediment Basin B is in good condition.
12. The gas-to-energy plant is in turnaround/shutdown mode for scheduled maintenence.

FURTHER REVIEW NEEDED

Project Number: 5800 Signed: Mike Lindsay

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

Monitor: **Mike Lindsay**	Page 2 of 2
Discipline: Environmental Engineer	Date: 04-09-15 Thur.
Site Conditions:	

SITE LOG

13. Flares 9 and 10 both are operating at high volume and temperature: Flare 9 operating at 5018 SCFM, 1676 °F, gas inlet temperature at 155°F. Gas sample measured 41 %Vol. CH4, 5.7 % Vol. O2, 74 ppm H2S, 406 ppm CO.
14. Flare 10 is operating at 4061 SCFM, 1656 °F; Display reads 47%Vol. CH4; Blowers 1, 2 operating.
15. Sediment Basin A is in good condition, with standing water by vertical drains.
16. Met with Patti Costa and discussed the following topics.
    a. Flare 9/10 piping has a large, red shut-off valve that is leaking fluid.
       - Patti will have Achaya repair valve.
    b. Flare 9/10 rubber expansion joints are ballooning out due to max flow and high gas temperature.
       - Patti will have Achaya investigate the connections.
    c. The working face was odorous this morning, with trash over edge of berm along access road.
       - Patti acknowledged our odor observations.
    d. Heavy equipment by Basin A has no oil drip containment underneath.
       - Patti will correct the problem.

FURTHER REVIEW NEEDED

Project Number: 5800 Signed: Mike Lindsay

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: Wayne Wu	Page: 1 of 1
Discipline: Environmental Engineer	Date: Thursday, April 9, 2015
Site Conditions: Clear, 55-73°F	

SITE LOG

1. Met with Jim Aidukas & Mike Lindsay (UltraSystems) and checked into office and with Patti Costa & Akhaya Kelaparda (Republic)
2. City Sage Mitigation Area (Deck C) – vegetation in good condition (sage & salt bush observed)
3. Flare 1 is operating at 1685°F & 2130 scfm
4. Observed working face from observation deck; brown mulch & green hydroseeding seen along slopes
5. Terminal Basin – slight ponding area near outlets
6. Bypass Access Road – Excavating & Grading along with water truck
7. CS 22 – no visible leaks or odors
8. City North – scrap metal & stockpiled soil observed
9. Sediment Basin B – some pooling along perimeter and near outlet; hillside – no litter
10. Gas-to-Energy Facility – maintenance being performed
11. Flares 9 & 10: red rotomaster valve leaking oil; Flare 10 flow: 4126 scfm @ 1650°F; Flare 9 flow 5045 scfm @ 1673°F Inlet pressure: -63 in. WC
12. Basin A: pooling near outlet structure
13. Met with Patti Costa (Republic)
    a. odor from working face less noticable in afternoon
    b. Flares 9 & 10 – red rotomaster valve leaking oil; rubber expansion material by compressor seems ballooned out
    c. equipment by Basin A lacking oil containment pans
    d. prepare list of background reports & documents to update & record status of compliance during next visit

FURTHER REVIEW NEEDED

1. Red Rotomaster valve in Flares 9 & 10 area is leaking fluid

COMMENTS

Project Number: 5800 Signed: Wayne Wu

April 23, 2015:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 4/23/15
Site Conditions: 60-70˚F, slight wind	

SITE LOG

Republic Site Manager - Rob Sherman

Drove the adjacent Granada Hills neighborhood and did not detect any landfill odors.

Met with Martin Aiyetiwa and Trishena Robinson (LACDPW) Mike Lindsay (UltraSystems) and signed in at the office. We had a brief conversation with Rob Sherman and Ricky Dhupar (Republic) concerning current site conditions. The monitoring team then proceeded to the landfill site and observed the following:

- Drove to the City South Deck A overlook area to observe the general conditions and current activities on the landfill.
- The new scales were operating efficiently with no truck stacking.
- The filling operations was in a small compact area in the north west portion of Cell CC-3A.
- The new pad location for the office buildings had liner material placed on the graded rock. This appears to be for control of potential gas migration under where the offices will be placed.
- Final contouring was being done on the slopes west of the scales and the new geologic soil buttress.
- The City Deck C sage mitigation was doing well. Some of the vegetation had died due to the warm summer-like conditions and the changing of the season. These plants will most likely re-sprout in the fall.
- The terminal basin had sediment near the outlet risers. Small areas of standing water was observed.
- There were deep holes around the sewer connection vaults due to a lack of compaction when installed and prior rain events. These areas should be fixed.
- Traveled the oil field road. No out of the ordinary conditions were observed. The discontinued and capped sewer piping that formerly discharged to the City sewer connection on Sessnon was observed. The south oil field gate was observed and was locked.
- The Granada Hills neighborhood was observed from the high point on the oil field road.
- The odor abatement air freshener system piping on the wall adjacent to San Fernando Road near the landfill entrance was dismantled and the pump system was not in operation.
- Basin A had all of the sediment removed and there was no standing water. The adjacent hillsides had no windblown trash.
- The westside drainage channel with a broken and uplifting floor and broken and spalling sidewalls in the area east and south of the County sage area had not yet been repaired.
- Met with the DTE operations staff and they stated that turnaround done two weeks ago did not uncover any operational concerns. The plant was now operating under full load.
- Cigarette butts were observed around the Flare 9 and 10 blower skid.

Page 2 of 2, 4/23/15:

Flare Operating Conditions:

- Flare 1 - 1642˚F, 2023 SCFM, -54.80" H_2O vacuum
- Flare 9 - down
- Flare 10 - 1663˚F, 3449 SCFM, -64.0" H_2O vacuum, 47.6% CH_4

Gas-to-Energy Facility:

- Gas feed - 8140 SCFM
- Energy generated - 23.0 megawatts
- Energy sales - 18.5 megawatts

FURTHER REVIEW NEEDED
COMMENTS
Signed:

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

Monitor: **Mike Lindsay**	Page 1 of 2
Discipline: Environmental Engineer	Date: 04-23-15 Thur.
Site Conditions: Partly sunny, 56-70 °F, 3-15 mph	

SITE LOG

1. Met with Martins Aiyetiwa, Trishena Robinson (LACDPW), Jim Aidukas (UltraSystems) and checked in to office with Rob Sherman, Ricky Dhupar (Republic).
2. Observed overall landfill operations from top viewing deck, including grading by Admin. Facility and working face.
3. Water trucks are applying water throughout landfill.
4. Flare 1 is operating at 2015 SCFM, 1636 °F; gas sample measured 29% Vol. CH4, 4.9% Vol. O2, 84 ppm CO, 86 ppm H2S, inlet temp. at 111 degrees F.
5. City Deck C sage mitigation area is in good condition.
6. K-rails along main haul road are being painted white for visibility / safety.
7. Bypass Access Road under-drain construction in progress.
8. Terminal Sediment Basin is in overall good condition with K-rail diverters relocated and standing water by vertical drains.
9. Observed Timber Ridge road from above on Oil Field Road.
10. Driving through adjacent neighborhood, no odors were detected.
11. Leachate treatment plant (by landfill entrance) is in good operating condition with no detected odors.
12. Deodorizing pipe system by landfill entrance wall is not operating, with 4" pipe disconnected at 2 places.
13. Sediment Basin A is clear of sediment build-up.
14. No wind-blown trash has accumulated at Sediment Basin A.

FURTHER REVIEW NEEDED

1. Repair deodorizing system by landfill entrance wall.

Project Number: 5800 Signed: Mike Lindsay

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

Monitor: **Mike Lindsay**	Page 2 of 2
Discipline: Environmental Engineer	Date: 04-23-15 Thur.
Site Conditions:	

SITE LOG

15. Westside Drainage has cracks and uplifting concrete that is getting worse.
16. New colored flagging has been installed along access road for gas-to-energy plant dedication ceremony next week.
17. Met with Rich at gas-to-energy plant. System running at full capacity.
18. Flare 9 is offline.
19. Flare 10 is operating at 3555 SCFM, 1651 °F. Blowers 1, 2 and 4 operating. Gas sample measured at 39 %Vol. CH4, 6.0 %Vol. O2, 54ppm H2S, over 500ppm CO. Display shows 48%Vol. CH4 and 3.2 %Vol. O2.
20 Checked out of office while Rob Sherman met with Martins Aigetiwa.

FURTHER REVIEW NEEDED

2. Repair Westside Drainage concrete damage.

Project Number: 5800 Signed: Mike Lindsay

May Site Visits

May 27, 2015:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

Tarik Hadj-Hamou (SLR)

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 5/27/15
Site Conditions: Partly overcast morning, sunny afternoon	

SITE LOG

Republic Site Manager - Rob Sherman

Drove around the Granada Hills neighborhood, Van Gogh Elementary School, and Bee Canyon Park. Did not detect any landfill odors.

Met with UltraSystems team members Mike Lindsay and Tarik Hadj-Hamou and had brief meeting to discuss areas of the landfill operations that we should monitor. We met with Karlo Manalo (LACDPW) and went to the landfill office and signed in. Had a brief conversation with Patti Costa, giving her a brief summary of the areas to be monitored and obtaining a key to unlock the gate to access Flare #8 hill and the Big Cone Fir mitigation area. The monitoring team then proceeded to the landfill site and observed the following:

- The bypass access road grading activities was on-going with scrapers moving dirt to raise the elevation from the terminal basin to the old condensate treatment pad. The hillside adjacent to the oil field road was being graded to lower its elevation to that of the oil field road. The transition to the existing access road was staked and vegetation and trees removed. A small block wall (non-retainer type) had soil sloughing against and on top of it from the adjacent grading activity. This wall may not support the load. The only compaction being done on the bypass road fill was that of track rolling with a dozer and wheel loading by the scrapers. No compaction rollers were seen being used.
- The leachate treatment system had a slight odor near tank T-203. A Republic maintenance person was cleaning and repairing gas well condensate pumps at this facility.
- The terminal basin had standing water near the outlet risers. There was a substantial amount of sediment in the basin near the risers.
- Concrete drainage v-ditches were installed on the slopes above the bypass access road. Drainage ditches were not yet being constructed adjacent to the road.
- The flare #8 stack was dismantled into the four flanged sections. All other equipment and piping was removed.
- The surviving Big Cone Fir trees that were planted in 2010 were doing well. New Big Cone seedlings were planted and not yet tagged. These seedling were doing well.
- Deck C sage mitigation was doing well with the predominant plant being salt bush.
- The PM-10 oak trees at the Deck C berm, except in the low point, appear to be tall and healthy. The planting of the understory trees has not been done.
- Mustard plants were taking over portions of Deck A and B.
- Basin A had standing water, rock and rubble from adjacent grading activities and minor sediment on the basin floor near the outlet risers. Windblown litter was observed in the adjacent hillside vegetation.
- The westside drainage channel between Basin D and Basin A had sections uplifting on the floor and cracking on the sides of the concrete channel. A slope concrete v-ditch has settled and water is flowing behind the wall, undermining the wall and floor of the channel in that area. Landfill gas odors were noticed in the area and channel wall on the landfill side with small cracks had 200-1200 PPM of methane detected. Engineering evaluation of the cause of the channel degradation, any potential impact to the landfill liner, and scheduled maintenance should be initiated.

Page 2 of 2, 5/27/15:

- The landfill working face was small and in the northwest section of CC-3A.
- Equipment was parked on dirt near Basin A with no oil drip pans under them.

Flare Operating Conditions:

- Flare 1 - 1695˚F, 2040 SCFM, -54.02" H_2O vacuum, inlet 90˚F, 37% CH_4
- Flare 3 - shut down
- Flare 8 - dismantled
- Flare 9 - 1689˚F, 3278 SCFM, -63" H_2O vacuum, 0.63% O_2, 47.4% CH_4
- Flare 10 - shut down

Gas-to-Energy Plant:
Flow to plant - 8412 SCFM, 46.1% CH_4, 1.69% O_2
Plant at full capacity, 21.8 megawatts produced, 17.6 megawatts sold.

FURTHER REVIEW NEEDED
COMMENTS
Signed:

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

Monitor: **Mike Lindsay**	Page 1 of 2
Discipline: Environmental Engineer	Date: 05-27-15 Wed.
Site Conditions: Partly sunny, 63-82 °F, 0-10 mph	

SITE LOG

1. Met with Karlo Manalo (LACPPW), Jim Aidukas, Tarik Hadj-Hamou (Ultra Systems), and checked into office with Patti Costa (Republic).
2. Bypass Access Road grading continues, with overall road profile mostly in-place.
3. Terminal Sediment Basin is in good condition, with sediment piled for removal, and some standing water by vertical drains.
4. Leachate treatment facility by landfill entrance is in good condition, with on-going pump maintenance.
5. Flare 8 has been sectioned into four lengths for removal. Hillside is staked off for excavation.
6. Big cone fir trees are growing well, with extensive new branching and bright, green growth. Irrigation system is working well. Many new big cone fir saplings have been planted, but lack tag markers.
7. City Deck C sage mitigation area is in good condition, with salt bush the dominant species.
8. Flare 1 is operating at 1937 SCFM, 1702 °F; gas sample measured 37 %Vol. CH4, 1.8 %Vol. O2, 87 ppm H2S, 43 ppm CO; inlet temperature is at 125 °F.
9. Overall landfill operations were observed from viewing deck by City Deck A. Water is being applied throughout for dust control.
10. Sahara mustard weed is growing on City Deck A.
11. Sediment Basin A is in overall good condition, with standing water around vertical drains.

FURTHER REVIEW NEEDED

1. Tag new big cone fir saplings with identification markers.
2. Remove Sahara mustard weed from City Deck A.

Project Number: 5800	Signed: Mike Lindsay

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

Monitor: **Mike Lindsay**	Page 2 of 2
Discipline: Environmental Engineer	Date: 05-27-15 Wed.
Site Conditions:	

SITE LOG

12. Some wind-blown trash has collected on the NW slope of Sediment Basin A.
13. Westside Drainage has uplifting concrete floor at known locations, with cracked and spalling concrete side walls that have deteriorated further since our last site visit.
14. Western County slope V-ditch that drains into Westside Drainage Channel has sunk down at connecting point, causing water to drain underneath channel instead of into it. Large cavities have formed due to erosion.
15. Landfill gas odor was smelled by damaged area of the Westside Drainage Channel. A handheld gas meter (RKI GX-2003) was used to trace the leak to the concrete sidewall cracks. In leak detection mode, the meter measured 200 to 1,200 ppm CH4 gas at various locations, with probe placed into concrete cracks.
16. Flare 9 is operating at 3280 SCFM, 1677 °F; gas sample measured at 46% Vol. CH4, 2.8% Vol. O2, 75 ppm H2S, 487 ppm CO; inlet temperature at 143 °F.
17. Flare 10 is off-line.
18. Gas to Energy plant is operating at full capacity.
19. Oil containment drip pans are not in place under stored heavy equipment by Admin. facility.

FURTHER REVIEW NEEDED

3. Remove wind-blown trash from NW slope of Sediment Basin A.
4. Repair Westside Drainage concrete at known locations.
5. Investigate landfill gas odors by Westside Drainage Channel damage.
6. Utilize oil containment drip pans under all heavy equipment when parked / stored.

Project Number: 5800 Signed: Mike Lindsay

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 2
Discipline: Civil – Geotechnical and Hydrology	Date: May 27, 2015
Site Conditions: Partly Cloudy than Sunny	
SITE LOG	
8:00 meet with UltraSystems team members Jim Aidukas and Mike Lindsay	
9:00 meet with Karlo Manalo of LADPW	
9:15 - 2:45 site tour Observed the following areas: construction for new access roads, work face, flares 3,8, and 9-10	
Access Road • Grading activities for the new access road were on-going with filling of area (Photo 1). • We did not see compaction equipment (e.g. roller) on site –	
Waste face • No issues noted	
Stability issues • No slope stability issues were noted during the site tour	
Flares • No issues noted - Flare 8 is being dismantled and timber was cut on the north face of the hill (Photo 2)	
Drainage system • Terminal basin on-going clean-up, some stagnant water noted. • Cracks on inside shotcrete face of basin noted in earlier visits still open to infiltration and vegetation is going through the cracks which will exacerbate the problem, (Photo 3 and Photo 4) • Conditions of channel on west side between Basin A and Basin D is getting worse – Slabs is uplifted more than ever (Photo 5) with heavy vegetation growing – Side walls are cracked (Photo 6) – Downchute does not drain over wall as designed but is separated from wall and water flows behind the wall (Photo 7)	
Miscellaneous • Soil accumulated behind an on top of block wall should probably be removed to eliminate he risk of wall failure and burial of pipes and channel (Photo 8)	
FURTHER REVIEW NEEDED	
COMMENTS	
Signed:	

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Photo 1: Construction of New Access Road

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Photo 2: Timber Removed on West Slop of Hill – Flare 8

Photo 3: Vegetation growing through cracks of shotcrete face

Photo 4: Bush growing in drain pier at terminal basin

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Photo 5: Uplifted bottom slab of drainage channel

Photo 6: Cracked sidewall of drainage channel with vegetation growing

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Photo 7: Broken Connection between downchute and drainage channel

Photo 8: Soil loading block wall

June Site Visits

June 9, 2015:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 6/9/15
Site Conditions: Cloudy, light rain, mild wind	

SITE LOG

Republic Site Manager - Rob Sherman

Drove around the Granada Hills neighborhood and Van Gogh Elementary School, and the 100-acre buffer zone and oil field. Did not detect any landfill odors.

Drove San Fernando Road and Sierra Highway. Illegal dumping of waste soil, a mattress and box spring, and miscellaneous trash and litter was seen north of the I-14 overpass on Sierra Highway. Wind-blown litter was seen on San Fernando Road between the landfill and Sierra Highway.

Met with Mike Lindsay (UltraSystems) and signed in at the landfill office. We had a brief meeting with George Kasikarin (LEA/City). The monitoring team then proceeded to the landfill site and observed the following:

- The access road realignment had grading occurring in most of the areas. All of the alluvial soils appear to have been removed and a compacted base material was placed. The underdrain system has been installed and liner is being placed in the future fill area.
- Concrete drainage v-ditches are in place on the cut native hillside.
- Republic geotechnical consultant Ali Mehr said that the access road is scheduled for a July completion. He also stated that soil compaction was being done by using a rubber tire CAT-A23 and was being nuclear gauge tested. QA/QC reports will be submitted to RWQCB.
- Drove into the oil field in the 100-acre buffer to observe the abandoned gas liquids clarifier. The clarifier appeared to be disconnected and filled with soil. However, when we approached the gates, we could smell odors from the operating face. This was approximately 10:15 - 10:30 a.m. This odor was not detected earlier in the morning when I drove the area. This was a constant odor. Republic staff was notified. Operations staff stated that the Dust Boss equipment was turned off at about 10:00 a.m. This might be a coincidence or there may be a direct cause and effect between running and not running the Dust Boss. No odor was detected off Republic property.
- The south property entrance perimeter gate was locked.
- The terminal basin was observed to have sediment spread for drying before being removed. There was standing water.
- We observed that a new gas condensate sump was being installed near the old city truck scales site. The sump was being commissioned by BAS/Tetra Tech personnel. The 24" HDPE line feeding gas condensate to the sump was leaking liquid from a temporary PVC cap duct taped to the end of the line. Liquid was ponding on the ground. The area was odorous. Republic staff was notified and aware of the condition and had the contractor working on it. At the end of monitoring when leaving the site, the condensate wetted soil was being removed,, the leak was stopped, and new soil was being placed at the location.
- Met with Fred Jones and stated that we detected operating face odors at the old GSF plant and odors from the condensate liquids at the new sump location. He stated that he was aware of the sump work and would make sure that it would be cleaned up before the construction crew left. We met with George Kasikarin and relayed this information.

Page 2 of 2, 6/9/15:

- The Old City North top deck had rock and soil stockpiled and a liner material storage area. Grading equipment was parked with no oil drip pans.
- Basin A had the sediment removed. Rock and soil from the adjacent grading was sloughing into the basin. Native hillsides were free of litter.
- Grading stakes were noted in the areas where the new Edison perimeter poles will be installed.
- The westside drainage channel is worsening over time. Republic staff stated that their geotechnical consultant evaluated the condition of the westside drainage system and is preparing a plan to implement any necessary repairs. Repairs will be budgeted and done in 2016.
- City Deck C sage mitigation appeared to be in good condition with native plants turning brown.

Flare Operating Conditions:

- Flare 1 - 1690˚F, 1832 SCFM, -54.5" H_2O vacuum, inlet 119˚F, 37% CH_4
- Flare 3 - shut down
- Flare 8 - dismantled
- Flare 9 - 1668˚F, 3490 SCFM, -63" H_2O vacuum, 0.63% O_2, 47.1% CH_4
- Flare 10 - shut down

The gas-to-energy plant was operating at full capacity producing 21.8 megawatts produced, 17.6 megawatts sold.

FURTHER REVIEW NEEDED

COMMENTS

Signed:

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

Monitor: **Mike Lindsay**	Page 1 of 2
Discipline: Environmental Engineer	Date: 06-09-15 Tue.
Site Conditions: Mostly cloudy, rain, 63-84°F, 0-15 mph	

SITE LOG

1. Met with Jim Aidukas (UltraSystems), and checked into office and with George Kasikarin (City LEA).
2. Bypass Access Road continues, with black liner material being installed along bottom and sides of drainage channel below new haul road.
3. Met with Ali Mehr (geotechnical engineer) at leachate facility by landfill entrance. Soil compaction is being done by a Cat-A23 with rubber tires.
4. Smelled landfill trash from Oil Field Road near old gas clarification plant.
5. Gate is closed and locked at perimeter below oil field pump rigs.
6. Terminal Sediment Basin has piled soil ready for removal, with some standing water behind soil berms at vertical drains.
7. A 24" gas line along main access road is having a new condensate sump installed.
8. The City North Deck (closed landfill area) has eight heavy equipment vehicles stored, with four having no oil drip pans underneath.
9. Met with George Kasikarin at office, and discussed soil compaction on Bypass Access Road, condensate line work by Sump C-22, landfill odors by Oil Field Road, and lack of oil drip pans under stored equipment.
10. Sediment Basin A has had soil build-up removed, and wind-blown trash removed from adjacent slopes.

FURTHER REVIEW NEEDED

1. Use oil drip pans underneath parked equipment at City North Deck.

Project Number: 5800 Signed: Mike Lindsay

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

Monitor: **Mike Lindsay**	Page 2 of 2
Discipline: Environmental Engineer	Date: 06-09-15 Tue.
Site Conditions:	

SITE LOG

11. Grading stakes with orange flags have been installed along County western slopes and at hillside below Flare 8.
12. Westside Drainage has uplifting and cracked concrete at known locations, which is worsening.
13. Gas-to-Energy plant is operating at full capacity.
14. Flare 9 is operating at 3475 SCFM, 1668°F; gas sample measured at 46%Vol. CH4, 3.3%Vol. O2, 73 ppm H2S, 458ppm CO; inlet temperature at 144°F; Blowers 1, 2 and 3 operating.
15. Flare 10 is off-line.
16. Flare 1 is operating at 1818 SCFM, 1689°F; gas sample measured at 37%Vol. CH4, 3.4%Vol. O2, 94 ppm H2S, 57 ppm CO; inlet temperature at 119°F.
17. City Deck C sage mitigation area is in good condition, with new salt bush and sage growth.
18. Observed working face, operating with tippers.
19. Water is being applied throughout landfill for dust control.

FURTHER REVIEW NEEDED

2. Repair Westside Drainage concrete at known locations.

Project Number: 5800 Signed: Mike Lindsay

June 24, 2015:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 6/24/15
Site Conditions: Clear and sunny, 70˚ - 90˚, slight wind	

SITE LOG

Republic Site Manager - Rob Sherman

Met with Mike Lindsay (UltraSystems). Drove around the adjacent Granada Hills neighborhood, the Van Gogh Elementary School and adjacent areas, and the Timber Ridge area. We did not observe any wind-blown litter nor detect any landfill odors. Met with Nick Hendricks (Los Angeles City Planning) at the landfill office and signed in. Had a brief conversation with Patti Costa. The monitoring team then proceeded to the landfill site and observed the following:

- The brush fire area above and adjacent to the Flare 3 site was observed. Flare 3 has not been operating in 2015. The fire appears to have been caused by a downed power pole and lines. There were other poles observed that Edison should inspect and possibly replace due to the large long vertical cracking.
- In the graded area west of the landfill office, there was soil covered with jute netting The reason for protecting this site is not known.
- In the area where Edison is replacing the existing powerline structures near the western ridgeline, signs were posted indicating that the area was protected due to nesting birds.
- Basin A had a substantial amount of sediment removed. The rock around the risers still had sediment that was blocking the total draining of the basin. There was rock and soil sloughing into the basin from the adjacent grading activity.
- Basin A north native slope had some minor wind-blown litter.
- Orange survey stakes and flagging were observed being placed in the areas where the future (replacement) perimeter powerline poles will be installed.
- The condition of the westside drainage system was worsening. The uplifting of the channel floor and movement and cracking of the concrete walls in the general area below the County sage mitigation hillside could fail in a major storm event. A partial fix before the winter rains may be beneficial.
- The material storage yard had the dismantled condensate treatment system equipment stored in the southeast side of the storage site. The large rectangular tanks were causing condensate odors to be detected approximately 200 feet away.
- Remains of the burned power poles from the brush fire near Flare 3 were stored in the material storage area.
- The Basin D north outlet channel has tumbleweed blocking the channel and east outlet pipe.
- Basin B was dry and sediment was piled from removal.
- Soil, rock, and waste material were being stored on the Old City North top deck. Earth moving equipment was also parked there with most not using oil drip pans.
- The terminal basin had sediment being removed. The rock around the risers was not yet removed and cleaned.
- Blowing dust was coming off dry sections of the City and County top decks. Trucks delivering wet weather rock, rubble, and asphalt to the County top deck were causing dust clouds due to inadequate watering of the dirt roadways being used. Road tar or soil sealant was not being used.

Page 2 of 2, 6/24/15:

- The underdrain water piping and the gas condensate piping from Cell CC-2B were cut in the future cell CC-3A area. Liquids were being collected in two separate ponds; a water pond and a gas condensate pond. The gas condensate was odorous and could be detected approximately 100 feet away from the pond.
- The access road realignment grading was nearing completion. Water drainage systems were being installed.
- The gas condensate feed pipe (approximately a 20" HDPE line) to Sump 23 had a PVC cap held on by duct tape in order to stop any liquid from leaking.

Flare Operating Conditions:

- Flare 1 - shut down
- Flare 3 - shut down
- Flare 8 - dismantled
- Flare 9 - shut down
- Flare 10 - 1648˚F, 3034 SCFM, -63" H_2O vacuum, 46.8% CH_4

The gas-to-energy plant was operating at full capacity using 8673 SCFM of landfill gas, producing 21.8 megawatts, with 17.6 megawatts sold.

FURTHER REVIEW NEEDED

COMMENTS

Signed:

UltraSystems
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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

Monitor: **Mike Lindsay**	Page 1 of 3
Discipline: Environmental Engineer	Date: 06-24-15 Wed.
Site Conditions: Sunny, 68-91°F, 0-15 mph	

SITE LOG

1. Met with Jim Aidukas (UltraSystems), and drove through adjacent neighborhood. No landfill odors detected.
2. Oil field road had no landfill odors detected.
3. Met with Nick Hendricks (LA City Planning), checked into office and with Patti Casta (Republic). Nick Hendricks joined us on our site monitoring today.
4. Observed brush fire site above Flare 3, including downed powerlines, missing power poles, and leaning power pole.
5. Flare 3 is offline.
6. Observed area with special jute mat and straw wattle cover in center section of excavation area above admin. facility. Area is approx. 30' x 20'.
7. Sediment Basin A is in overall good condition.
8. Observed wind-blown trash along north slope of Sediment Basin A.
9. Observed staking with orange flagging along westside County slopes (possibly for new powerline project).
10. Westside Drainage has cracked and uplifting concrete at known locations. Conditions are worsening.
11. BAS pipe storage yard is in good condition
12. Condensate treatment tanks at BAS storage yard are emitting condensate odors from 200 feet away.
13. Burned and downed power poles from brush fire above Flare 3 are stored at BAS storage yard.
14. Sediment Basin D is clear of sediment.

FURTHER REVIEW NEEDED

1. Remove wind-blown trash from Sediment Basin A slopes.
2. Repair Westside Drainage concrete.
3. Control odors from condensate treatment tanks at BAS storage yard. Tanks are decommissioned from condensate treatment facility by old scale house.

Project Number: 5800 Signed: Mike Lindsay

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

Monitor: **Mike Lindsay**	Page 2 of 3
Discipline: Environmental Engineer	Date: 06-24-15 Wed.
Site Conditions:	

SITE LOG

15. Northside Drainage (Sediment Basin D Drainage) has large amounts of vegetation blocking ditch and culverts.
16. Gas-to-Energy Plant is operating at full capacity.
17. Flare 9 is offline.
18. Flare 10 is operating at 3060 SCFM, 1648 °F; gas sample measured at 47 %Vol. CH4, 1.7 %Vol. O2, 74 ppm H2S, over 500 ppm CO. Blowers 2, 3 and 4 operating; inlet temp. at 108 °F.
19. Observed treated leachate holding tanks along Sediment Basin D drainage above Terminal Sediment Basin.
20. Terminal Sediment Basin is clear of sediment, with no standing water.
21. Bypass Access Road construction continues, with final grade in-place. Road drainage is being installed.
22. Standing water observed (approx. 12'x10') by leaking leachate stub pipe below Well L-4, and is very odorous.
23. Standing water observed at bottom of excavated area by main haul road below two seep pipes, cut due to soil removal for Cell CC3 development.
24. Flare 7 is offline.

FURTHER REVIEW NEEDED

4. Remove vegetation from Northside Drainage.
5. Remove odorous standing water by leachate stub.
6. Repair cut seep drain pipes, at Cell CC3 excavation.

Project Number: 5800 Signed: Mike Lindsay

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING
SITE REPORT

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SITE LOG

25. Meeting with Patti Costa and Ricky Dhupar (Republic) to discuss the following topics.

a. Cut seep lines at Cell CC3 excavation are draining into soil. Patti stated that this is temporary due to construction.

b. Dust clouds were forming due to dry conditions. Patti will increase dust control measures.

c. What is status of powerline project? Patti stated that it may complete in March 2016.

d. What is covered soil within excavated area above admin facility? Patti found out it is where power utility company borrowed soil for power pole project (they are required to cover borrow pit per their policy).

e. Wind-blown trash at Sediment Basin A is increasing. Patty will have it removed.

f. Westside Drainage concrete cracks are worsening, and could potentially put the landfill liner system at risk. Patti stated that the budget for this repair is scheduled for some time in 2016.

g. An admin. record review of conditions list was given to Patti Costa. This review is planned during our next site monitoring in July, 2015. Patti and Ricky will address each item.

26. Calgrove Fire caused exiting the landfill to be probematic due to traffic.

FURTHER REVIEW NEEDED

Project Number: 5800 Signed: Mike Lindsay

Appendix IV
Meeting Logs

Sunshine Canyon Landfill

Meeting Log for April 2015 Site Monitoring

April 9, 2015

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

Attendees:
James Aidukas, UltraSystems
Mike Lindsay, UltraSystems
Wayne Wu, UltraSystems

Discussion:

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

- Jim Aidukas stated that the Flare 9/10 piping has a large, red shut-off valve that is leaking fluid.
  - Patti Costa will have Achaya Kelapanda repair the leak.
- Jim Aidukas stated that the Flare 9/10 rubber expansion joints are ballooning out due to max flow and high gas temperature.
  - Patti Costa will have Achaya Kelapanda investigate the connections.
- Jim Aidukas stated that the working face was odorous this morning, with trash over the edge of the berm along the access road.
  - Patti Costa acknowledged our odor observations.
- Mike Lindsay stated that heavy equipment by Basin A has no oil drip containment underneath.
  - Patti Costa will correct the problem.

The meeting was then adjourned.

Sunshine Canyon Landfill

Meeting Log for May 2015 Site Monitoring

May 27, 2015

There was no post-monitoring meeting. Below is a summary of the comments made by Jim Aidukas (UltraSystems) and the inspection team to Patti Costa (Republic) over a telephone call on May 28, 2015.

- The bypass access road has had a substantial amount of grading and placement of fill for the road completion. Tarik Hadj-Hamou, the UEI geotechnical monitor, asked what compaction of fill was required in the road design geotechnical report and how was it being obtained. Also, were compaction tests being performed?

- It was observed that the bypass access road hillsides have concrete drainage V-ditches installed. Will there be concrete V-ditches installed adjacent to the road? Are all of these temporary?

- The PM-10 oak trees at the Deck C berm, except in the low point, appear to be tall and healthy. Has the planting of the understory trees been scheduled?

- Mustard plants appear to be taking over in some areas on Deck A and Deck B. Is there a plan to remove them this summer?

- Basin A had standing water, rock and rubble from adjacent grading activities and minor sediment on the basin floor near the outlet risers. Windblown litter was observed in the adjacent hillside vegetation.

- The terminal basin had standing water and a substantial amount of sediment near the outlet risers.

- Equipment was parked on dirt near Basin A with no oil drip pans under them.

- The westside drainage channel between Basin D and Basin A had sections below the County sage mitigation area uplifting on the floor and cracking on the sides of the concrete channel. A slope concrete V-ditch has settled and water is flowing behind the wall, undermining the wall and floor of the channel in that area. Landfill gas odors were noticed in this area and channel walls on the landfill side with small cracks had 200 to 1,200 PPM of methane detected. Engineering evaluation of the cause of this channel degradation, any potential impact to the landfill liner, and scheduled maintenances should be initiated.

- Flare #8 hillside tree removal and clearing was observed. The consulting biological report show vegetation removed and mitigation planned should be provided.

- The Big Cone Fir tree mitigation area was observed. New trees did not have mitigation tags.

Sunshine Canyon Landfill

Meeting Log for June 2015 Site Monitoring

June 9, 2015

There was no post-monitoring meeting. Below is a summary of the comments made by Jim Aidukas (UltraSystems) to Patti Costa (Republic) via email on June 16, 2015.

Mike Lindsay and I monitored the Sunshine Canyon Landfill site on June 9, 2015. I have summarized below our monitoring observations sand conversations:

1. I drove the Granada Hills adjacent neighborhood, the Van Gogh school area, and O'Melveny Park. I did not smell any odors from the landfill operations. I saw Dennis (Republic staff) on Constable Street and he said he did not detect any odors either.

2. I drove San Fernando Road north to Sierra Highway and Sierra Highway north to the 1-14 overpass. Sierra Highway had two mattresses and a box spring dumped just south of the 1-14 overpass. There was litter on both sides of Sierra Highway in this area. Two truckloads of soil was dumped north of the overpass. San Fernando Road had windblown litter and a car tire on the west side between the site and Sierra Highway.

3. Between 10:15 A.M. and 10:30 A.M., we traveled to the old GSF plant site in the oil field. When we got to the gate, we could smell the operating landfill face. This was a constant odor. I notified Fred Jones of this occurrence. He stated that the Dust Boss equipment was turned off about 10:00 A.M. This might be a coincidence or a direct cause. Republic should monitor this area.

4. The Old City North top deck had equipment parked there with only four out of eight using oil drip pans. The equipment parked around Basin A also had about 50% of them using oil drip pans.

5. There was a new gas condensate sump being installed near the old city truck scales area. The sump was being commissioned by BAS/Tetra Tech personnel. The 24-inch HDPE line feeding gas condensate to the sump was leaking liquid from a temporary PVC cap taped to the end of the line. Liquid was ponding on the ground. Tom was notified of this condition by BAS and the LEA in the morning; I alerted Fred Jones of this condition before we finished our monitoring. When leaving the site, the wetted soil was being removed, the leak was stopped, and new soil was being placed at the location.

6. There were new orange survey stakes near the County sage area, near Bain D and below the Flare #8 hill. What are these being used for?

7. There were two protected areas in the graded area west of the site offices. What are in these areas?

Sunshine Canyon Landfill

Meeting Log for June 2015 Site Monitoring

June 24, 2015

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

Attendees:
James Aidukas, UltraSystems
Mike Lindsay, UltraSystems

Discussion:

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

a. Jim Aidukas stated there are cut seep lines at Cell CC3 excavation that are draining into soil.
   - Patti Costa stated this is a temporary condition due to construction.

b. Jim Aidukas stated that dust clouds were forming due to dry conditions.
   - Patti Costa will increase dust control measures.

c. Jim Aidukas asked what the status was of the powerline project.
   - Patti Costa stated that it may complete in March 2016.

d. Jim Aidukas asked what the covered soil was within the excavated area above the admin facility.
   - Patti Costa later stated that it is where the power utility company borrowed soil for the powerline project (they are required to cover borrow pits per company policy).

e. Mike Lindsay stated that wind-blown trash at Sediment Basin A north slope is increasing.
   - Patti Costa will have it removed.

f. Jim Aidukas stated that the Westside Drainage concrete cracks are worsening.
   - Patti Costa stated that the budget for this repair is scheduled for some time in 2016.

g. Mike Lindsay gave to Patti Costa an admin record review of conditions list, to be discussed during our next site monitoring in July 2015.
   - Patti Costa will prepare for this review.

The meeting was then adjourned.