

**Sunshine Canyon Landfill
Independent Monitor
Quarterly Site Monitoring Status Report
October 1, 2017 – December 31, 2017**

Prepared For:

City of Los Angeles Department of City Planning

And

County of Los Angeles Department of Regional Planning



Prepared By:



UltraSystems
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Prepared On:

March 6, 2018



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CERTIFICATION STATEMENT

March 6, 2018

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated March 6, 2018 is the Fourth Quarterly Report for 2017, issued by UltraSystems. This report covers the monitoring period from October 1, 2017 through December 31, 2017 and is prepared for the City of Los Angeles Department of City Planning and the County of Los Angeles Department of Regional Planning.

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

Signed,

James T. Aidukas

Project Manager

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Sunshine Canyon Landfill City Mitigation Monitoring Summary
(see spreadsheet)

Sunshine Canyon Landfill County Mitigation Monitoring Summary
(see spreadsheet)

Appendices

Appendix I – Further Review Needed Comments: Reference I-o through I-r

Appendix II – Photo Location Map and Relevant Site Photos

Appendix III – Quarterly Site Visits

Attendees by Date and Mitigation Monitoring Site Reports

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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. The Mitigation Monitoring Summary spreadsheets for the City and County of Los Angeles note any conditions and/or mitigation measures that need further review, and document these areas in an appendix for that site visit date. Any issues that required immediate attention were reported to Republic Services (Republic) staff and the appropriate staff at the City of Los Angeles Planning Department, the County of Los Angeles Department of Regional Planning, the County of Los Angeles Department of Public Works and the Sunshine Canyon Landfill Local Enforcement Agency (SCL-LEA).

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

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

This Quarterly Report provides the City of Los Angeles Department of Planning and the County of Los Angeles Department of Regional Planning with a concise status of the Mitigation Measure Monitoring for the period of October 1, 2017 to December 31, 2017. It includes:

1. The City and County Mitigation Monitoring Summary spreadsheets for October 1, 2017 to December 31, 2017. These spreadsheets record the areas of monitoring completed and the status of being compliant during the fourth quarter of 2017;
2. A Status Summary of Non-Compliant, Further Review Needed and Compliant with the requirements of the conditions and/or mitigation measures;
3. Photo Location Map and Relevant Site Photos showing site conditions of key areas of the landfill during this quarter;
4. Site visit attendees by date of site visit and the mitigation monitoring site report from each monitor;
5. Meeting logs documenting any meetings with Republic staff and/or public agencies, with the topics discussed; and
6. Any site monitoring documenting site changes.

Site Visits During the Quarter

Four site visits were performed by UltraSystems during the October through December 2017 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on October 26, 2017; November 7, 2017; November 21, 2017; and December 12, 2017. The previously discussed conditions and/or mitigation measures were tracked by each specialist who visited, and observations were documented. Site conditions were noted to be: Compliant, Non-Compliant, or Further Review Needed. If a Condition was found to be Non-Compliant or observed as having Further Review Needed, a reference was made to an appendix which details what was observed by the monitor.

Definition of Terms

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

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

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

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

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

Status Summary

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

Compliant

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

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

Non-Compliant

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

Further Review Needed

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

Q-B.2.c (City)

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

Geology-1.07 (County)

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

Geology-1.11 (County)

Grading allows for ancillary facilities outside of the landfill footprint.

Biota-4.29 (County)

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

Biota-4.30 (County)

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

Biota-4.33 (County)

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

Biota-4.34 (County)

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

Current Status/Comments – Throughout the 4th Quarter, the buttress design plans and engineering documents to support Cell CC-4 Part 3 adjacent native slopes were under review by the County Department of Public Works Civil Engineering and Permitting sections. Additional geotechnical information was supplied to the County Public Works Engineering staff in December. It is anticipated that the grading will be approved in the 1st Quarter of 2018. A new biological survey will be performed by Republic's consultant prior to start of vegetation clearing and grading. The buttress is outside of the prior-approved landfill footprint.

In early October, Cells CC-4 Part 1 and Part 2 were actively accepting waste. Part 1 was primarily being used by transfer trucks. Part 2 was primarily being used by packer trucks. The access roads to both areas were recycled concrete base material and compacted soil.

In early November, Cells CC-4 Part 1 and Part 2 were actively accepting waste. The access roads to both areas were recycled concrete base material and compacted soil.

In late November, Cell CC-4 Part 1 and Part 2 were actively accepting waste. Part 1 was primarily used by transfer trucks and Part 2 was primarily used by packer trucks. The access roads to both areas were recycled concrete base material and compacted soil.

In mid-December, Cell CC-4 Part 1 and Part 2 were active accepting waste. Both areas had packer and transfer trucks. The access roads to both areas were recycled concrete base material and compacted soil.

Q-C.3.h (City)

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

Current Status/Comments – There were numerous dirt access roads that were being used periodically by contractors and service and maintenance personnel. When used, blowing dust is a concern. The use of a soil sealant or limiting the use of dirt roads to those that are watered should be considered. The use of a soil sealant on temporary construction roads should be evaluated. The use of water trucks was not effective in controlling dust on these temporary construction roads. As the access road lengthens from the scales to the operating disposal areas, the roadway needs to be surfaced with either recycled asphalt, aggregate materials, or soft stabilization products in order to minimize the length of untreated dirt. Roadways to the active fill areas are constructed of recycled aggregate base material covered with dirt to smooth out any ruts. The dirt top is not treated with any stabilizer.

Blowing dust clouds were observed coming from City and County top deck areas in early and late-November and mid-December. During this period, weather conditions were dry, with high gusts of wind.

Q-C.5 (City)

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

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

Q-C.10.c (City)

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

Odor/Landfill Gas - 7.07 (County)

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

Gas - 52 (County)

To the extent technically and economically feasible, the Permittee shall use Landfill gas for energy generation at the Facility or other beneficial uses, rather than flaring, and shall obtain all applicable local, state, and/or federal approvals for any such use. Notwithstanding the foregoing, 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 late October, the gas-to-energy plant was using 7574 SCFM of recovered landfill gas. The facility was at partial production due to Flare 11 construction and equipment tie-ins. The quality of the recovered gas could not be obtained due to the construction activity. Flare 1: 3307 SCFM; Flare 3: 4000 SCFM; Flare 9: shut down; Flare 10: shut down. The total volume of landfill gas being recovered was 14,881 SCFM.

In early November, the gas-to-energy plant was using 7123 SCFM of recovered landfill gas, 43.0% CH₄, 1.2% O₂, 61 ppm H₂S. The facility was at partial production due to equipment maintenance. Flare 1: 3341 SCFM; Flare 3: 3827 SCFM; Flare 9: 2218 SCFM; Flare 10: shut down; Flare 11: 2338 SCFM. The total volume of landfill gas being recovered was 18,847 SCFM.

In late November, the gas-to-energy plant was using 9450 SCFM of recovered landfill gas, 47.0% CH₄, 1.0% O₂, 61 ppm H₂S. The facility was at 100% production. Flare 1: 2949 SCFM; Flare 3: shut down; Flare 9: 2532 SCFM; Flare 10: 2603 SCFM; Flare 11: 2894 SCFM. The total volume of landfill gas being recovered was 20,426 SCFM.

In mid-December, the gas-to-energy plant was using 9111 SCFM of recovered landfill gas, 45.0% CH₄, 1.3% O₂, 56 ppm H₂S. The facility was at 100% production. Flare 1: 2632 SCFM; Flare 3: 2800 SCFM; Flare 9: shut down for burner repair; Flare 10: 2775 SCFM; Flare 11: 2708 SCFM. The total volume of landfill gas being recovered was 20,026 SCFM.

The quantity of landfill gas being recovered during the 4th Quarter has averaged 18,545 SCFM, with the gas-to-energy plant usage averaging 8315 SCFM. An expansion of the gas-to-energy plant or different beneficial use facility should be evaluated.

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

T-4 (City)

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

a. immediate access fire plan [now]

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

Fire Service - 12.03 (County)

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

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

M-4.1.1(2) (City)

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

M-4.1.1(4) (City)

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

M-4.1.1(5) (City)

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

M-4.1.5(12) (City)

Geologic Hazards - Liquefaction

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

M-4.14.1(155) (City)

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

Geology-1.07 (County)

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

Current Status/Comments – Future out-of-approved landfill footprint grading is proposed for a Cell CC-4 Part 3 buttress. Grading plans have been submitted to the County Department of Public Works for approval. These plans are under review by County Civil Engineering and Permitting sections. Additional geotechnical information was submitted to County staff in December. It is anticipated that the grading plans will be approved in the 1st Quarter of 2018, and that clearing and grading will start soon thereafter pending any weather or biological impacts.

The only grading occurring in this quarter was for the development of Cell CC-4 Part 2 and the removal of soil for waste cover from stockpiled soil in Cell CC-3A. These activities are inside the approved landfill footprint.

M-4.1.1(6) (City)

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

M-4.2.11(23) (City)

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

M-4.2.12 (28) (City)

Site Erosion

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

d. An SCAQMD approved soil stabilization (sealant) product shall be used to retard soil erosion and enhance revegetation. Soil sealant shall be applied when necessary to selected working areas of the landfill. The sealant will also be used as a binder or tackifier to hold 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 – Throughout the 4th Quarter, alternatives to hydroseeding on interim and inactive slopes and decks for slope stability and dust control were being used due to the drought. Posi-Shell has been applied to areas in Cell CC-3A and Cell CC-3B. The installation of Closure Turf has been done on the Cell CC-3A and Cell CC-3B south-facing slopes. These systems have been shown to control dust, erosion and surface emissions in the areas where it was used. Blowing dust was observed on City and County top decks and roadways with bare soil on days when wind gusts exceeded 10 MPH. The use of a soil sealant should be considered in these areas.

In late October, compost mulch was observed being tilled into the intermediate cover soil on the top deck of Cell CC-3A. The top decks of CC-3A, CC-3B and City/County adjoining decks to the north and their east-facing slopes are planned to be revegetated.

In early November continuing until late November, the Cell CC-3A west-facing slopes adjacent to the Posi-Shell covered slopes had straw wattles and were hydroseeded. The top deck soils were being amended with compost.

In mid-December, the Cell CC-3B south-facing slopes, the Cell CC-3A west and east-facing slopes, and the top decks had erosion control wattles in place and were hydroseeded. Rain-for-Rent water storage and irrigation systems were installed.

M-4.1.1 (7) (City)

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

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

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

M-4.1.6 / 18 (City)

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

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

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

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

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

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

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

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

- a. Sample Probe Installation: One monitoring probe per 1,000 feet or as identified by South Coast Air Quality Management District (SCAQMD) and/or Local Enforcement Agency (LEA) in the landfill expansion, and one probe per 650 feet or as identified by SCAQMD and/or LEA in the City Inactive landfill along the landfill perimeter, or whichever is more restrictive shall be installed to identify potential areas of subsurface landfill gas (LFG) migration. These probes shall be monitored to ensure that quantities of LFG beyond regulatory standards do not vent offsite through subsurface soils.*
- b. Integrated Landfill Surface Sampling: The landfill surface shall be monitored to ensure that the average concentration of total organic compounds over the landfill surface does not exceed SCAQMD's standard of 25 ppm.*
- c. Ambient Air Samples: 24-hour integrated gas samples and required meteorological data shall be taken to assess any impact the landfill is having on the ambient air quality at the landfill perimeter.*
- d. Instantaneous Landfill Surface Monitoring: Spot checks on the landfill surface shall be made to determine the maximum concentration of total organic compounds measured as methane, measured at any one point on the surface of the landfill does not exceed the SCAQMD's standard of 500 ppm.*

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

Odor/Landfill Gas - 7.06 (County)

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

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

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

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

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

Amendment 45.N - 5 (County)

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

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

In late October, the monitor drove the Granada Hills neighborhood area from 6:45 to 7:45 a.m. and there were no landfill odors detected in the adjacent neighborhood. The slow lane on Balboa Boulevard at Woodley Avenue had liquid stain marks that appear to be from leaking packer trucks. There was a slight garbage odor when standing right next to the stains. A faint odor was detected near the west end of the Cell CC-3A Closure Turf where the liquid transfer pipeline leak was observed during the September 26 monitoring. Compost mulch was being stockpiled on the top deck of Cell CC-3B for amending soil for City deck B and City/County top deck and slope vegetation. There was a strong localized odor. Compost mulch was observed being tilled into soils on the top deck of Cell CC-3A.

In early November, the monitor detected a strong greenwaste odor on the northbound 405 freeway at approximately 6:45 a.m. Drove to the North Hills Recycling facility and detected a strong greenwaste odor on Blucher Avenue near the facility. Drove the landfill's adjacent Granada Hills neighborhood area from 7:00 to 7:45 a.m. and did not detect any landfill odors. There was a slight greenwaste odor on Orozco Street across from the school. A strong, localized condensate odor was detected at the sewer lift station carbon filter drum. The leachate treatment facility had well lift pump odorous cleaning debris dumped inside the concrete berm area.

In late November, the monitor drove the Granada Hills neighborhood area from 6:30 to 7:15 a.m. and there were no landfill odors detected. The slow lane on Balboa Boulevard at Woodley Avenue had liquid stain marks that appear to be from leaking packer trucks. There was no garbage odor detected when standing near the stains. A strong greenwaste odor was detected on Blucher Avenue near the North Hills Recycling facility. Smoldering greenwaste was being moved by equipment.

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

In mid-December, the monitor drove the Granada Hills neighborhood area from 6:45 to 7:30 a.m. and there were no landfill odors detected. There were strong condensate odors at the sewer connection deep well pump and the odors also were strong at the perimeter block wall.

Throughout the 4th Quarter, the use of Posi-Shell and Closure Turf to seal fill areas with intermediate cover provided enhanced gas recovery and gas-related odor control.

M-4.3.1(37) (City)

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

Surface Water - 2.03 (County)

As development of the site proceeds, surface drainage systems shall be maintained so that surface runoff is diverted away from working slopes and isolated from landfilled refuse. Onsite drainage

channels would be designed per CCR, Title 23, Division 3, Chapter 15, Article 3, §2546(C), which mandates the requirements for a capital storm event (100-year 24-hour precipitation).

M-4.3.1(38) (City)

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

Surface Water - 2.12 (County)

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

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

Throughout the 4th Quarter, surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas and most conveyance V-ditches were unlined.

In late October, a cattle guard drainage system directing roadway and a small section of the westside drainage near the landfill entrance to the terminal basin's outlet was completed. A HDPE drainage channel system was installed around Cell CC-4 Part 2. No drainage pump was yet installed. New concrete drainage channels were being installed connecting the upper westside surface water drainage to the lower concrete channel. The terminal basin had a skimmer system being installed on the outlet risers. No underdrain system to drain sediment was observed to be in place.

In early November, the terminal basin had the outlet risers modified and equipped with Faircloth floating skimmers. The risers had holes cut in the galvanized standpipe and covered with filter fabric to drain water-saturated sediment. The modification was complete.

M-4.3.1(39) (City)

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

M-4.18 / 178 (City)

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

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

M-4.3.1(40) (City)

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

M-4.3.1(45) (City)

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

Surface Water 2.14 (County)

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

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

M-4.3.1(41) (City)

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

M-4.3.1(43) (City)

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

Surface Water 2.10 (County)

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

Current Status/Comments – In late October, the terminal basin was cleared of sediment. The inlet channels into the terminal basin were clean and ready for winter rains. Sediment basin CC-3B was cleared of sediment. The low-flow drain was not cleaned, and was plugged with debris and

sediment. Basin A was cleared of sediment. The rock around the outlet risers had not yet been cleaned and was filled with sediment.

In early November, there was standing water and sediment on the southern sides of the gabion wall that transverses the terminal basin. There was sediment in the terminal basin's outlet channel. The CC-3B basin had its low-flow outlet plugged with soil and debris. There was standing water at the basin's lower wall. The water was odorous. Basin A had a large amount of standing water. The rock around the outlet risers appears to be blocking drainage. Basin B was free of sediment and was dry and ready for rain events.

In late November, basin A was free of sediment but had stagnant water at the outlet riser. Basin B was free of sediment and was dry and ready for rain events.

In mid-December, the basin CC-3B low flow outlet was plugged with soil and debris. Basin A was dry and clear of sediment. The native vegetation hillsides had windblown litter. The outlet channel culverts were blocked by tumbleweed. Basin B was dry and clear of sediment. Windblown litter was observed in the native hillside vegetation.

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 – Throughout the 4th Quarter, a preventative maintenance program with inspection of facility equipment, systems and storm water management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into storm water should be performed on a monthly basis, with a summary report issued on a quarterly basis. These reports should be available for agency and monitor review.

In late October, the San Fernando Road retaining wall was being cleared of soil and rock against the fence and in front of the wall. The slope above the wall was graded to remove loose material, and one oak tree was removed. The wall top drainage channel was cleaned and re-established. Soil sloughing on the main access road slope facing the terminal basin had more movement. This movement and any potential impacts on the main access road should be monitored during the winter season. Basin D outlet channel has the HDPE liner material torn, lifted, and could block stormwater flow. Debris and tumbleweed was observed in multiple areas and could block flow. The HDPE header to Flare 3 around the top of the south basin A wall was modified and put on HDPE supports. On the slope area near the basin outlet, the steel bars driven into the ground may not hold if the slope soils slide. This could cause the entire support system to fail.

In early November, the San Fernando Road retaining wall top drainage channel was cleaned and re-established. The V-ditch drains were plugged with soil at the channel and the roadway curb. The channel will not drain until they are cleaned. The drainage channel on the slope above the Flare 1 pad has had the supporting soil eroded away. The channel should be looked at and necessary maintenance repairs made. The basin D outlet channel had no maintenance performed since the last monitoring. The channel has the HDPE liner material torn and lifted, and it could block stormwater flow. Debris and tumbleweed was observed in multiple areas and they could also block flow.

In late November, the gas collection system piping to Flare 3 had some areas along the top of the basin A wall that looked unstable. The basin D outlet channel had no maintenance performed since the last monitoring. The channel has the HDPE liner material torn and lifted, and could block stormwater flow. Debris and tumbleweed was also observed in multiple areas and they could also block flow. There was no maintenance performed on the CC-3B basin. The basin still had its low-flow outlet plugged with soil and debris. There was standing water at the basin's lower wall.

In mid-December, the frontage retaining wall and walkway was cleared of soil and rock. The V-ditch drains to the street were plugged with dirt. Debris and soil had fallen into the wall's V-ditch. The sloughing of soil on the main access road slope near the terminal basin inlet has increased and a utility pole is now leaning. This slope needs to be monitored by Republic's geotechnical engineers. The basin D outlet channel had no maintenance performed since the last monitoring. The channel has the HDPE liner material torn and lifted, and could block stormwater flow. Debris and tumbleweed was also observed in multiple areas and they could also block flow. The gas header piping to Flare 3 installed on the top sidewall of basin A had some support pedestals move, which could cause an unstable condition and cause the header to fall into the basin.

M-4.3.2(50) (City)

The LCRS shall be installed at the base and side slopes of the landfill. This system shall be designed and installed to collect generated leachate for disposal consistent with LARWQCB requirements. The collection system shall consist of a filter rock blanket embedded with a system of collection pipes or a blanket embedded with a system of collection pipes or geosynthetic alternative that collects and transports the fluid to a holding tank. In accordance with RCRA, Subtitle D, 40 CFR, Part 258, the collection systems shall be designed to limit the hydraulic head on the liner to less than 12 inches. Collection pipes shall be sized and spaced to reduce the hydraulic head in the leachate collection system as specified in WDRs. Leachate shall be recovered and treated onsite. The treated leachate shall be sampled prior to discharge from the holding tank in accordance with the WDRs to determine suitability for reuse onsite per LAWRQCB requirements. Summary results of this sampling shall be disseminated in the newsletter with more detailed reporting on the web site and in the Annual Report.

Current Status/Comments – In late October, the old City north top deck had a new liquids handling system with 16 Alder-type storage tanks. This system is designed to handle recovered leachate. The installation of a double lined pipe to sewer directly to the sewer connection at the landfill entrance has not been completed. Liquids are now being trucked offsite. Four gabion liquid recovery structures were installed in Cell CC-4 Part 2.

M-4.4.1(60) (City)

Venturan Coastal Sage Scrub

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

Biota - 4.27 (County)

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

Current Status/Comments – In late October, City deck C sage mitigation area was doing well. Fall removal of non-natives was not done yet. The PM-10 berm oak trees were doing well. No understory planting had occurred. City deck B sage mitigation was staked, the area cleared, and top soil spread and graded. A jute netting with seed applied by hydroseeding was being tested to establish vegetation on the County slopes in the sage mitigation area.

In early November, City deck C sage mitigation was doing well. No removal of non-natives or other maintenance was done. The PM-10 trees were doing well. No understory planting was done. No work was done on the City deck B sage mitigation since the last monitoring. Additional jute netting was installed on the County sage mitigation slopes and were hydroseeded.

In late November, City deck C sage mitigation was doing well. No maintenance or non-native plant removal appears to have been done. The PM-10 berm trees were doing well. No understory planting was done. Dust was observed blowing over the trees and leaving the site during high wind gusts. No progress on City deck B sage mitigation was observed. Additional jute netting was installed on the County sage mitigation slopes and hydroseeded.

In mid-December, City deck C sage mitigation was doing well. No maintenance or non-native plant removal appears to have been done. The PM-10 berm trees were doing well. No understory planting was done. There was no progress on City deck B sage mitigation. Jute netting that was hydroseeded covered approximately 40% to 45% of the slopes in the County sage mitigation area. The remaining slope area had deep erosion rills and these slopes need straw wattles or other erosion control.

M-4.4.2/69 (City)

Potential candidate mitigation sites have been identified by the project proponent in conjunction with resource agencies for consideration to compensate for impacts on riparian and wetland resources as a result of project development. These sites include Bull Creek, Bee Canyon and East Canyon, which are located proximate to the project site. Prior to the development of any detailed mitigation plans and

drawings, the final selection will be determined cooperatively by the CDFW, Corps, SWRCB, and other regulatory agencies in conjunction with the City and project proponent.

Current Status/Comments – The City Attorney, City DWP, and Republic were finalizing an agreement to use the Chatsworth Reservoir as a wetland mitigation site. The agreement will not involve the mitigation area being transferred to City Recreation and Parks. The MND addendum to the environmental document was being prepared for the Chatsworth Reservoir Wetland/Riparian Mitigation Project and should be completed in January 2018. A Notification of Lake or Streambed Alteration was made by Republic on October 26, 2017 to California Fish and Wildlife (CDFW). CDFW has until January 26, 2018 to issue a draft agreement or inform Republic that none is required.

M-4.9.3(110) (City)

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

Current Status/Comments – In late October, Sierra Highway north of the I-14 overpass had windblown litter on the roadway shoulders and under the overpass. Just north of the overpass was an 18-foot boat that had been illegally dumped on the roadway shoulder. This was observed on the 9-26-2017 site monitoring. Illegal dumping of large cardboard boxes and other debris was observed on the roadway shoulders.

In early November, Sierra Highway north of the I-14 overpass had a couch, wood, cardboard and other debris dumped on the roadway shoulder.

In late November, Sierra Highway north of the I-14 overpass had windblown litter on the roadway shoulders and under the overpass. This area was cleared of the illegally dumped items.

In mid-December, trash, debris and rubble were dumped on the shoulder of Sierra Highway north of the I-15 overpass.

M-4.9.4(125) (City)

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

Current Status/Comments – Throughout the 4th Quarter 2018, the south perimeter oil field gate was observed to be locked.

The northern gate to the landfill was damaged and lying on the ground until December 2017. The northern entrance was observed to be repaired and locked in December.

M-4.19.2(191) (City)

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

Ecological Significance 62 (County)

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

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

Summary of Requested Documents

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

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

Conclusions

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

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

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

Sunshine Canyon Landfill City Mitigation Monitoring Summary
(10-01-2017 through 12-31-2017)

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

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28	T - 6		Satisfactory Street Lighting	status	/				/				/				/				/				/				/				/				/			
29																																								
30	M - 4.1.1	7	Reabandonment Procedures	status	✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r	
31	M - 4.1.4	11	Post-5.0 Earthquake Analysis	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
32	M - 4.2.12	27	Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
33	M - 4.2.12		Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
34	M - 4.2.12	28	Site Erosion-Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r	
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-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r	
37	M - 4.2.13	29	LFG Control Measures	ongoing	/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o		/		I-p		/		I-q		/		I-r	
38	M - 4.2.13	30	Operational Odor Control Techniques	ongoing	/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o		/		I-p		/		I-q		/		I-r	
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-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o		/		I-p		/		I-q		/		I-r	
41	M - 4.2.13	33	Odor Control Measures	ongoing	✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r	
42	M - 4.2.13	34	Odor/LFG Monitoring	ongoing	/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o		/		I-p		/		I-q		/		I-r	
43			Periodic LFG Monitoring		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o		/		I-p		/		I-q		/		I-r	
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-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r	
47	M - 4.4.2	70	Purchasing Wetland Credit	status	/				/				/				/				/				/				/				/				/			
48	M - 4.4.2	71	Funding-Invasive Species Eradication Program	status	/				/				/				/				/				/				/				/				/			
49	M - 4.6	85	Site Lighting	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
50	M - 4.7.1	86	Open Space Buffer Area	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
51	M - 4.9.3	106	Litter Minimization	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
52	M - 4.9.3	107	Litter/Debris Containment	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
53	M - 4.9.3	108	Vehicle Tarping Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
54	M - 4.9.3	109	Periodic Offsite Litter Pickup	ongoing																																				

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

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

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

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

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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-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o		/		I-p		/		I-q		/		I-r
7	Amendment 45.N - 4.c	45N	Odor Patrol Program	ongoing	/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o		/		I-p		/		I-q		/		I-r
8	Amendment 45.N - 4.d	45N	Landfill Gas Mitigation Plan	ongoing	/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o		/		I-p		/		I-q		/		I-r
9	Amendment 45.N - 5	45N	Dust and Odor Reports	ongoing	/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o		/		I-p		/		I-q		/		I-r
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	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r
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	✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r
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		✓	FRN	I-m		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
20	Gas - 52	52	Landfill Gas Collection System	ongoing	✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r
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-j	✓	FRN	I-k	✓	FRN	I-l	R	✓	FRN	I-m	✓	FRN	I-n	✓	FRN	I-o	✓	FRN	I-p	✓	FRN	I-q	✓	FRN	I-r					
47	Groundwater - 3.13		Groundwater-LFG Migration Mitigation	ongoing																																	
48	Groundwater - 3.14		Groundwater-Monitoring Wells	ongoing																																	
49	BIOTA – 4.05		Annual Fee Submission for SEA Studies	status	/			/			/		/			/		/			/		/		/			/			/						
50	BIOTA – 4.06		Buffer Zone Maintenance as Nature Preserve	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE		✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
51	BIOTA – 4.07		Buffer Zone Maintenance-Vegetation	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE		✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
52	BIOTA – 4.08		Ridgeline Maintenance-Remain Undisturbed	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE		✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
53	BIOTA – 4.47		Cleaning of Equipment	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE		✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
54	BIOTA – 4.48		Monitoring of Vector-Attracting Items	ongoing																																	
55	BIOTA – 4.49		Salvaged Material Storage-Vector Control	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE		✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
56	BIOTA – 4.50		Vector Activity Monitoring	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE		✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
57	Air Quality - 6.03		Dust Emission Minimization	ongoing	✓	C	NONE	✓	FRN	I-k	✓	C	NONE		✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	I-o	✓	C	I-p	✓	C	I-q	✓	C	I-r		
58	Air Quality - 6.04		Usage of Cut Material for Cover	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE		✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
59	Air Quality - 6.05		Operations in Accordance with SCAQMD/DOPW Requirements	info	/			/		/		/		/		/		/		/		/		/		/		/		/		/		/			
60	Air Quality - 6.06		Landfill Gas Control/Extraction System/Monitoring	ongoing	/			/		/		/		/		/		/		/		/		/		/		/		/		/		/			
61	Air Quality - 6.07		Flaring Systems	info	/			/		/		/		/		/		/		/		/		/		/		/		/		/		/			
62	Air Quality - 6.08		Management of Truck Arrivals	ongoing																																	
63	Air Quality - 6.10		Refuse Truck Mitigation	status																																	
64	Air Quality - 6.11		Light Duty Alternative Fuel Vehicles	status	✓	C	NONE	✓	C	NONE	✓	C	NONE		✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		

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

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

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148	Visual - 10.02		Final Fill Elevations	ongoing	<	FRN	I-j		<	FRN	I-k		<	FRN	I-l		<	FRN	I-m		<	FRN	I-n		<	FRN	I-o		<	FRN	I-p		<	FRN	I-q		<	FRN	I-r	
149																																								
150	Hydrologist																																							
151																																								
152																																								
153	Grading & Drainage - 38	38	Installation of Drainage Structures	ongoing																																				
154																																								
155	Geology - 1.17		Landfill Design/Construction-Seismic	ongoing																																				
156	Surface Water - 2.01		Surface Water Runoff Interception	ongoing																																				
157	Surface Water - 2.02		Surface Water Runoff Collection	ongoing																																				
158	Surface Water - 2.03		Surface Drainage Control-Maintenance	ongoing	✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r	
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	✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r	
164	Surface Water - 2.11		Surface Water Quality-Collection/Monitoring	ongoing																																				
165	Surface Water - 2.12		Permanent/Temporary Drainage Facilities	ongoing	✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r	
166	Surface Water - 2.13		Permanent/Temporary Drainage Facilities	ongoing																																				
167	Surface Water - 2.14		Erosion Control Plan	ongoing	✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r	
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-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r	
176	Revegetation - 44.B	44.B	Interim Reclamation/Revegetation Plan-Sold Waste	ongoing																																				
177	Revegetation - 44.D	44.D	Final Fill Slope Requirements	ongoing																																				
178	Revegetation - 44.E	44.E		ongoing																																				
179																																								
180	Geology - 1.13		Drainage Plan Approval	ongoing	✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r	
181	Geology - 1.14		Personnel Retention for Monitoring Soil Erosion	ongoing	✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r	
182	Groundwater - 3.11		Irrigation/Revegetation Management-Personnel Retention	ongoing																																				

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

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**Sunshine Canyon Landfill County Mitigation Monitoring Summary
(10-01-2017 through 12-31-2017)**

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Third Quarter 2017																Fourth Quarter 2017																					
					7/11/2017	Status*	Further Review Needed/Comments**	Resolved*	7/25/2017	Status*	Further Review Needed/Comments**	Resolved*	8/14/2017	Status*	Further Review Needed/Comments**	Resolved*	9/12/2017	Status*	Further Review Needed/Comments**	Resolved*	9/26/2017	Status*	Further Review Needed/Comments**	Resolved*	10/24/2017	Status*	Further Review Needed/Comments**	Resolved*	11/7/2017	Status*	Further Review Needed/Comments**	Resolved*	11/21/2017	Status*	Further Review Needed/Comments**	Resolved*						
216	Air Quality & Noise Specialist																																									
217																																										
218																																										
219	Fugitive Dust - 45.F	45.F	Fugitive Dust Monitoring	ongoing	✓	FRN	I-j	✓	FRN	I-k	✓	FRN	I-l	✓	FRN	I-m	✓	FRN	I-n	✓	C	I-o	✓	C	I-p	✓	C	I-q	✓	C	I-r											
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	✓	FRN	I-j	✓	FRN	I-k	✓	FRN	I-l	✓	FRN	I-m	✓	FRN	I-n	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
226	Air Quality - 6.01		Working Face Requirements	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
227	Air Quality - 6.01		Erosion Control-Daily Cover	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
228	Air Quality - 6.01		Soil Stockpile Requirements	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
229	Air Quality - 6.01		Active Area Fill	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
230	Air Quality - 6.01		Soil Sealant	ongoing																																						
231	Air Quality - 6.01		Dust Emissions-Road Maintenance	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
232	Air Quality - 6.01		Access Roads-Paving	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
233	Air Quality - 6.01		Dust Generation-Dumping	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
234	Air Quality - 6.01		Water Tanks/Piping Maintenance	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
235	Air Quality - 6.01		Wind Speed Monitoring	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
236	Air Quality - 6.01		Report Submission-Dust/Odor	every quarter	/			/			/			/			/			/			/			/			/			/			/			/				
237	Odor/Landfill Gas - 7.03		Odor/Landfill Gas Monitoring Program	ongoing	/			/			/			/			/			/			/			/			/			/			/			/				
238	Odor/Landfill Gas - 7.03		Landfill Surface Sampling	ongoing	/			/			/			/			/			/			/			/			/			/			/			/				
239	Odor/Landfill Gas - 7.03		Landfill Perimeter Air Samples	ongoing	/			/			/			/			/			/			/			/			/			/			/			/				
240	Odor/Landfill Gas - 7.03		Landfill Surface Monitoring	ongoing	/			/			/			/			/			/			/			/			/			/			/			/				
241	Odor/Landfill Gas - 7.03		LFG Collection System Monitoring	ongoing	/			/			/			/			/			/			/			/			/			/			/			/				
242	Noise - 9.01		Landfill Access/Operation	info	/			/			/			/			/			/			/			/			/			/			/			/				
243	Noise - 9.03		Landfill Equipment-Mufflers/Silencers	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
244	Admin Rpts/ Pgms-17.16		Air Quality Monitoring-Corrective Action Plan	ongoing	/			/			/			/			/			/			/			/			/			/			/			/				
246																																										
247	Hydrology, Hazardous Waste / Risk of Upset																																									
248																																										
249																																										

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[illegible]

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283	Paleontologist																																										
284																																											
285																																											
286	Ecological Significance - 62	62	Archaeological/Paleontological -Material Identification/Conservation	ongoing	✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r				
287	IMP - Part VII.B	IMP7	Archaeological/Paleontological-Report Submission	ongoing																																							

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Appendix I

Further Review Needed Comments: Reference I-o through I-r Fourth Quarter 2017 Site Visits

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	Q – B.2.c		City Planning	<p>I-o through I-r: The buttress design plans and engineering documents to support Cell CC-4A Part 3 adjacent native slopes were under review by the County Department of Public Works Civil Engineering and Permitting sections. The buttress is outside of the prior-approved landfill footprint.</p> <p>I-o: Cells CC-4 Part 1 and Part 2 were actively accepting waste. Part 1 was primarily being used by transfer trucks. Part 2 was primarily being used by packer trucks. The access roads to both areas were recycled concrete base material and compacted soil.</p> <p>I-p: Cells CC-4 Part 1 and Part 2 were actively accepting waste. The access roads to both areas were recycled concrete base material and compacted soil.</p> <p>I-q: Cell CC-4 Part 1 and Part 2 were actively accepting waste. Part 1 was primarily used by transfer trucks and Part 2 was primarily used by packer trucks. The access roads to both areas were recycled concrete base material and compacted soil.</p> <p>I-r: Cell CC-4 Part 1 and Part 2 were actively accepting waste. Both areas had packer and transfer trucks. The access roads to both areas were recycled concrete base material and compacted soil.</p>
		Geology - 1.07	County DPW EPD/SCL-LEA	I-o through I-r: See Q – B.2.c above.
		Geology - 1.12	County DPW EPD/SCL-LEA	I-o through I-r: See Q – B.2.c above.
	Q - C.3.h		City Planning	<p>I-o through I-r: There are numerous dirt access roads that are used daily, but infrequently. When used, blowing dust is a concern. The use of a soil sealant or limiting the use of dirt roads to those that are watered should be considered. The use of a soil sealant on temporary construction roads should be evaluated. The use of water trucks was not effective in controlling dust. As the access road lengthens from the scales to the operating disposal areas, the roadway needs to be surfaced with either recycled asphalt, aggregate materials and a stabilization product in order to minimize the length of untreated dirt.</p> <p>Blowing dust clouds were observed coming from City and County top deck areas in early and mid-November and mid-December.</p>

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	Q - C.10.c		City Planning	<p>I-o: The gas-to-energy plant was using 7574 SCFM of recovered landfill gas. The facility was at partial production due to Flare 11 construction and equipment tie-ins. The quality of the recovered gas could not be obtained due to the construction activity. Flare 1: 3307 SCFM; Flare 3: 4000 SCFM; Flare 9: shut down; Flare 10: shut down. The total volume of landfill gas being recovered was 14, 881 SCFM.</p> <p>I-p: The gas-to-energy plant was using 7123 SCFM of recovered landfill gas, 43.0% CH₄, 1.2% O₂, 61 ppm H₂S. The facility was at partial production due to equipment maintenance. Flare 1: 3341 SCFM; Flare 3: 3827 SCFM; Flare 9: 2218 SCFM; Flare 10: shut down; Flare 11: 2338 SCFM. The total volume of landfill gas being recovered was 18,847 SCFM.</p> <p>I-q: The gas-to-energy plant was using 9450 SCFM of recovered landfill gas, 47.0% CH₄, 1.0% O₂, 61 ppm H₂S. The facility was at 100% production. Flare 1: 2949 SCFM; Flare 3: shut down; Flare 9: 2532 SCFM; Flare 10: 2603 SCFM; Flare 11: 2894 SCFM. The total volume of landfill gas being recovered was 20,426 SCFM.</p> <p>I-r: The gas-to-energy plant was using 9111 SCFM of recovered landfill gas, 45.0% CH₄, 1.3% O₂, 56 ppm H₂S. The facility was at 100% production. Flare 1: 2632 SCFM; Flare 3: 2800 SCFM; Flare 9: shut down for burner repair; Flare 10: 2775 SCFM; Flare 11: 2708 SCFM. The total volume of landfill gas being recovered was 20,026 SCFM.</p> <p>I-o through I-r: The quantity of landfill gas being recovered during the 4th Quarter has averaged 18, 545 SCFM, with the gas-to-energy plant usage averaging 8315 SCFM. An expansion of the gas-to-energy plant or different beneficial use facility should be evaluated.</p>
		Odor/Landfill Gas - 7.07	County Planning/SCAQMD SCL-LEA	I-o through I-r: See Q - C.10.c above.
		Gas - 52	County DPW EPD/SCL-LEA County Forester Fire Warden	I-o through I-r: See Q - C.10.c above.
	T-4		City Planning, City Fire Department	I-o through I-r: An updated fire plan showing the new locations of all facilities and emergency egress should be prepared and sent to the local City Fire Department station and City and County Planning when construction of the new operation's facilities currently under construction have been completed. Emergency egress should be posted for employees and customers.
		Fire Service - 12.03	County DPW EPD/SCL-LEA County Forester Fire Warden	I-o through I-r: See T-4 above.
	M - 4.1.1 / 7		City Planning, DOGGR	<p>I-o through I-r: The two old oil well steel casings in the area north of the office site are still covered with stockpiled soil. The lowering of the well casings and permanent abandonment should be done when the stockpiled soil is removed and the final grade elevation for future liner installation is reached.</p> <p>The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site should be reabandoned when the other two wells are reabandoned. No abandonment activity has occurred at this location. None of the wells were leaking oils or gas, nor pose a current hazard.</p>
		Re-abandonment Procedures	County Planning, County DPW EPD/SCL-LEA, DOGGR	I-o through I-r: See M - 4.1.1 / 7 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	M - 4.2.12 / 28		City Planning/SCAQMD	<p>I-o through I-r: Alternatives to hydroseeding on interim and inactive slopes and decks for slope stability and dust control were being used due to the drought. Posi-Shell has been applied to areas in Cell CC-3A and Cell CC-3B. The installation of Closure Turf has been done on the Cell CC-3A and Cell CC-3B south-facing slopes. These systems have been shown to control dust, erosion and surface emissions in the areas where it was used. Blowing dust was observed on City and County top decks and roadways with bare soil on days when wind gusts exceeded 10 MPH. The use of a soil sealant should be considered in these areas.</p> <p>I-o: In late October, compost mulch was observed being tilled into the intermediate cover soil on the top deck of Cell CC-3A. The top decks of CC-3A, CC-3B, and City/County adjoining decks to the north and their east-facing slopes are planned to be revegetated.</p> <p>I-p and I-q: In early November continuing until late November, the Cell CC-3A west-facing slopes adjacent to the Posi-Shell covered slopes had straw wattles and were hydroseeded. The top decks' soils were being amended with compost.</p> <p>I-r: In mid-December, the Cell CC-3B south-facing slopes, the Cell CC-3A west and east-facing slopes, and the top decks had erosion control wattles in place and were hydroseeded. Rain-for-Rent water storage and irrigation systems were installed.</p>
		Fugitive Dust - 45.F	County DPH/County LEA County DPW-EPD County Biologist	I-o through I-r: See M - 4.2.12 / 28 above.
	M -4.2.13/ 29, 30, 32, 34		City Planning/SCL-LEA/SCAQMD	I-o through I-r: 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-o through I-r: See M -4.2.13/ 29, 30, 32, 34 above.
		Amendment 45.N-5	County DPW-EPD	I-o through I-r: See M -4.2.13/ 29, 30, 32, 34 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	M - 4.2.13 / 33		City Planning/SCAQMD	<p>I-o: The monitor drove the Granada Hills neighborhood area from 6:45 to 7:45 a.m. and there were no landfill odors detected in the adjacent neighborhood. The slow lane on Balboa Boulevard at Woodley Avenue had liquid stain marks that appear to be from leaking packer trucks. There was a slight garbage odor when standing right next to the stains. A faint odor was detected near the west end of the Cell CC-3A Closure Turf where the liquid transfer pipeline leak was observed during the September 26 monitoring. Compost mulch was being stockpiled on the top deck of Cell CC-3B for amending soil for City deck B and City/County top deck and slope vegetation. There was a strong localized odor. Compost mulch was observed being tilled into soils on the top deck of Cell CC-3A.</p> <p>I-p: The monitor detected a strong greenwaste odor on the northbound 405 freeway at approximately 6:45 a.m. Drove to the North Hills Recycling facility and detected a strong greenwaste odor on Blucher Avenue near the facility. Drove the landfill's adjacent Granada Hills neighborhood area from 7:00 to 7:45 a.m. and did not detect any landfill odors. There was a slight greenwaste odor on Orozco Street across from the school. A strong, localized condensate odor was detected at the sewer lift station carbon filter drum. The leachate treatment facility had well lift pump odorous cleaning debris dumped inside the concrete berm area.</p> <p>I-q: The monitor drove the Granada Hills neighborhood area from 6:30 to 7:15 a.m. and there were no landfill odors detected. The slow lane on Balboa Boulevard at Woodley Avenue had liquid stain marks that appear to be from leaking packer trucks. There was no garbage odor detected when standing near the stains. A strong greenwaste odor was detected on Blucher Avenue near the North Hills Recycling facility. Smoldering greenwaste was being moved by equipment.</p> <p>I-r: The monitor drove the Granada Hills neighborhood area from 6:45 to 7:30 a.m. and there were no landfill odors detected. There were strong condensate odors at the sewer connection deep well pump and the odors also were strong at the perimeter block wall.</p> <p>I-o through I-r: The use of Posi-Shell and Closure Turf to seal fill areas with intermediate cover provided enhanced gas recovery and gas-related odor control.</p>
		Odor/Landfill Gas - 7.06	County DPW-EPD/SCL-LEA/SCAQMD	I-o through I-r: See M-4.2.13/33 above.
		Amendment 45.N - 4.a, 4.c, 4.d	County DPW-EPD	I-o through I-r: See M-4.2.13/29, 30, 32, 33, and 34 above.
		Amendment 45.N - 5	County DPW-EPD	I-o through I-r: See M-4.2.13/29, 30, 32, 33, and 34 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager		Surface Water - 2.15	County DPW EPD/ LARWQCB, SCL- LEA	<p>I-o through I-r: A preventative maintenance program with inspection of facility equipment, systems, and storm water management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into storm water should be performed on a monthly basis, with a summary report issued on a quarterly basis. These reports should be available for agency and monitor review.</p> <p>I-o: The San Fernando Road retaining wall was being cleared of soil and rock against the fence and in front of the wall. The slope above the wall was graded to remove loose material and one oak tree was removed. The wall top drainage channel was cleaned and re-established. Soil sloughing on the main access road slope facing the terminal basin had more movement. This movement and any potential impacts on the main access road should be monitored during the winter season. Basin D outlet channel has the HDPE liner material torn, lifted, and could block stormwater flow. Debris and tumbleweed was observed in multiple areas and could block flow. The HDPE header to Flare 3 around the top of the south Basin A wall was modified and put on HDPE supports. On the slope area near the basin outlet, the steel bars driven into the ground may not hold if the slope soils slide. This could cause the whole support system to fail.</p> <p>I-p: The San Fernando Road retaining wall top drainage channel was cleaned and re-established. The V-ditch drains were plugged with soil at the channel and the roadway curb. The channel will not drain until they are cleaned. The drainage channel on the slope above the Flare 1 pad has had the supporting soil eroded away. The channel should be looked at and necessary maintenance repairs made. The Basin D outlet channel had no maintenance performed since the last monitoring. The channel has the HDPE liner material torn and lifted, and it could block stormwater flow. Debris and tumbleweed was observed in multiple areas and they could also block flow.</p> <p>I-q: The gas collection system piping to Flare 3 had some areas along the top of the Basin A wall that looked unstable. The Basin D outlet channel had no maintenance performed since the last monitoring. The channel has the HDPE liner material torn and lifted, and could block stormwater flow. Debris and tumbleweed was also observed in multiple areas and they could also block flow. There was no maintenance performed on the CC-3B basin. The basin still had its low-flow outlet plugged with soil and debris. There was standing water at the basin's lower wall.</p> <p>I-r: The frontage retaining wall and walkway was cleared of soil and rock. The V-ditch drains to the street were plugged with dirt. Debris and soil had fallen into the wall's V-ditch. The sloughing of soil on the main access road slope near the terminal basin inlet has increased and a utility pole is now leaning. This slope needs to be monitored by Republic's geotechnical engineers. The Basin D outlet channel had no maintenance performed since the last monitoring. The channel has the HDPE liner material torn and lifted, and could block stormwater flow. Debris and tumbleweed was also observed in multiple areas and they could also block flow. The gas header piping to Flare 3 installed on the top sidewall of Basin A had some support pedestals move, which could cause an unstable condition and cause the header to fall into the basin.</p>
	M - 4.4.2/69		City Planning	I-o through I-r: The MND Addendum Environmental document is being prepared for the Chatsworth Reservoir Wetland/Riparian Mitigation Project and should be complete in January 2018. A Notification of Lake or Streambed Alteration was made by Republic on October 26, 2017 to California Fish and Wildlife (CDFW.) CDFW has until January 26, 2018 to issue a draft agreement or inform Republic that none is required.
		Biota - 4.4.3	CDFW	I-o through I-r: See M - 4.4.2 / 69 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	M - 4.9.3 / 110		City Planning/City LEA	<p>I-o: Sierra Highway north of the I-14 overpass had windblown litter on the roadway shoulders and under the overpass. Just north of the overpass was an 18-foot boat that had been illegally dumped on the roadway shoulder. This was observed on the 9-26-17 site monitoring. Illegal dumping of large cardboard boxes and other debris was observed on the roadway shoulders.</p> <p>I-p: Sierra Highway north of the I-14 overpass had a couch, wood, cardboard, and other debris dumped on the roadway shoulder.</p> <p>I-q: Sierra Highway north of the I-14 overpass had windblown litter on the roadway shoulders and under the overpass. This area was cleared of the illegally dumped items.</p> <p>I-r: Trash, debris and rubble were dumped on the shoulder of Sierra Highway north of the I-15 overpass.</p>

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Civil and Geotechnical Engineer	M - 4.1.1 / 2		City Building and Safety City Planning	I-o through I-r: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 4		City Planning/LARWQCB Cal Recycle	I-o through I-r: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 5		City Planning/ LARWQCB Cal Recycle	I-o through I-r: Future out-of-approved landfill footprint grading is proposed for a Cell CC-4 Part 3 buttress. Grading plans have been submitted to the County Department of Public Works for approval. These plans are under review by DPW Civil Engineering and Permitting sections. The only grading occurring in this quarter was for the development of Cell CC-4 Part 2 and the removal of stockpiled soil for waste cover from stockpiled soil in Cell CC-3A. These activities are inside the approved landfill footprint.
		Geology - 1.07	County DPW EPD/ County LEA	I-o through I-r: See M - 4.1.1 / 5 above.
	M - 4.1.5 / 12		City Planning/LARWQCB Cal Recycle	I-o through I-r: See M - 4.1.1 / 5 above.
	M - 4.1.6 / 18			I-o through I-r: The landfill perimeter boundary survey PVC marker pipes have been removed in areas where Edison pole grading took place, as well as near the Flare 11 site pad grading. These boundary markers have not been replaced. All markers should be replaced once the Cell CC-4 Part 3 landslide buttress is installed.
	M - 4.14.1 / 155		City Planning/Cal Recycle PW-BOE LADEBS City LEA	I-o through I-r: Access roads were being maintained around the working area for emergency access.
	M - 4.18 / 178		City Planning/City LEA	I-o through I-r: A map showing areas that are at the final elevations and which should have final cover should be available for review. Documents showing current filled elevations should also be available onsite for review. These conditions were not monitored.
		Visual - 10.01 Visual - 10.02	County DPW EPD/ LARWQCB SCL-LEA	I-o through I-r: See M - 4.18 / 178 above.
Hydrologist	M - 4.3.1/ 37, 38		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	I-o through I-r: Surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas, and most conveyance V-ditches were unlined. I-o: A cattle guard drainage system directing roadway and a small section of the westside drainage near the landfill entrance to the terminal basin's outlet was completed. A HDPE drainage channel system was installed around Cell CC-4 Part 2. No drainage pump was yet installed. New concrete drainage channels were being installed connecting the upper westside surface water drainage to the lower concrete channel. The terminal basin had a skimmer system being installed on the outlet risers. No underdrain system to drain sediment was observed to be in place. I-p: The terminal basin had the outlet risers modified and equipped with Faircloth floating skimmers. The risers had holes cut in the galvanized standpipe and covered with filter fabric to drain water-saturated sediment. The modification was complete.
		Surface Water - 2.03 Surface Water - 2.12	County DPW EPD/ LARWQCB SCL-LEA	I-o through I-r: See M - 4.3.1/ 37, 38 above.

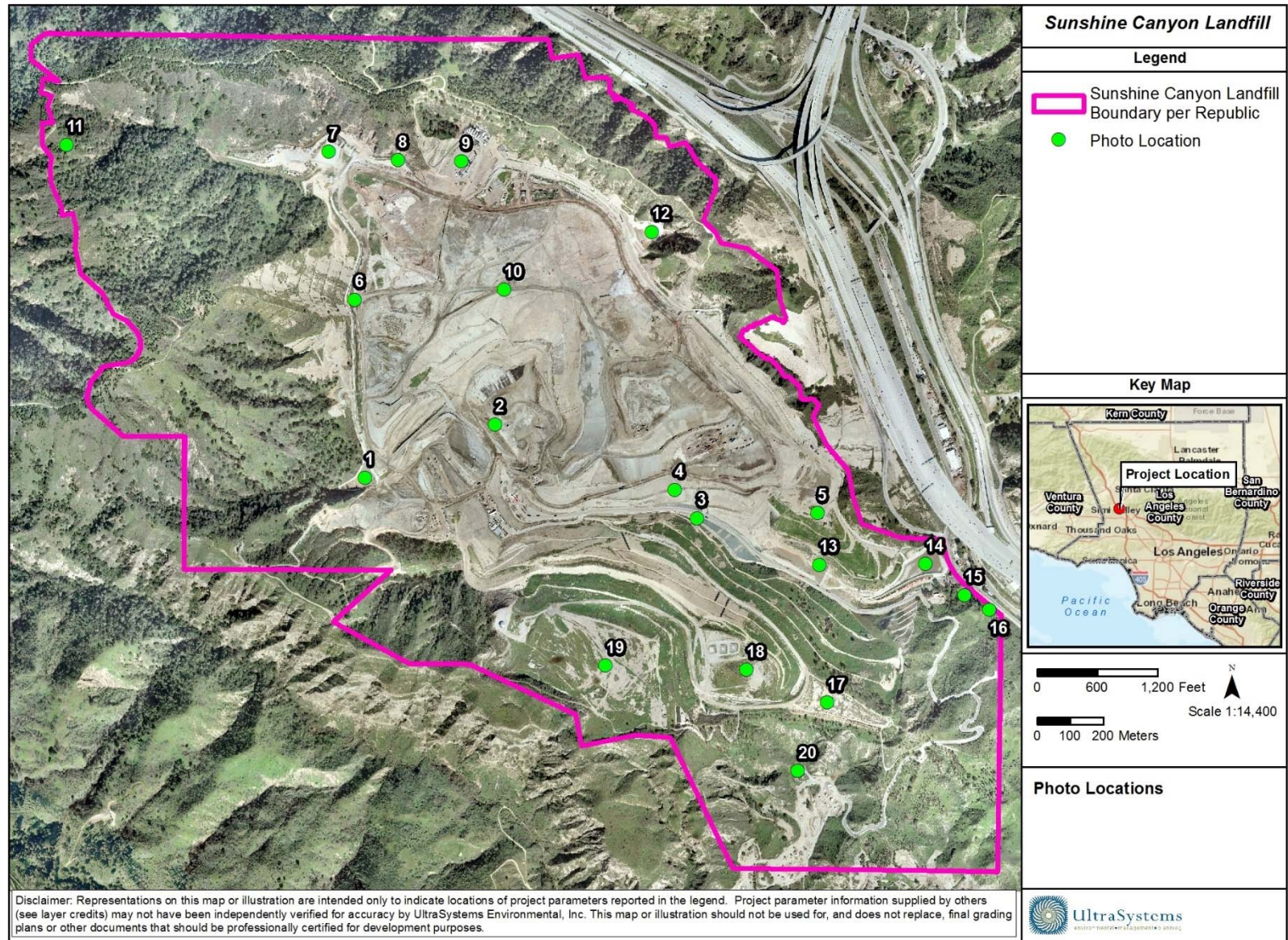
Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Hydrologist	M - 4.3.1 / 39		City Planning/LARWQCB Cal Recycle	I-o through I-r: See M - 4.3.1 / 37, 38 above.
	M - 4.3.1 / 40		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-o through I-r: See M - 4.3.1 / 37, 38 above.
	M - 4.3.1 / 43		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	<p>I-o: The terminal basin was cleared of sediment. The inlet channels into the terminal basin were clean and ready for winter rains. Sediment Basin CC-3B was cleared of sediment. The low-flow drain was not cleaned and was plugged with debris and sediment. Basin A was cleared of sediment. The rock around the outlet risers had not yet been cleaned and was filled with sediment.</p> <p>I-p: There was standing water and sediment on the southern sides of the gabion wall that transverses the terminal basin. There was sediment in the terminal basin's outlet channel. The CC-3B basin had its low-flow outlet plugged with soil and debris. There was standing water at the basin's lower wall. The water was odorous. Basin A had a large amount of standing water. The rock around the outlet risers appears to be blocking drainage. Basin B was free of sediment and was dry and ready for rain events.</p> <p>I-q: Basin A was free of sediment but had stagnant water at the outlet riser. Basin B was free of sediment and was dry and ready for rain events.</p> <p>I-r: The Basin CC-3B low flow outlet was plugged with soil and debris. Basin A was dry and clear of sediment. The native vegetation hillsides had windblown litter. The outlet channel culverts were blocked by tumbleweed. Basin B was dry and clear of sediment. Windblown litter was observed in the native hillside vegetation.</p>
		Surface Water - 2.10	LARWQCB / County DPW EPD	I-o through I-r: See M - 4.3.1 / 43 above.
		Surface Water - 2.14	LARWQCB / County DPW EPD	I-o through I-r: See M - 4.3.1 / 43 above. The current erosion control plans should be available for agency and monitor review.
	M - 4.3.1 / 45		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-o through I-r: Surface Water - 2.14 above.
	M - 4.3.1/ 46		City Planning/ LARWQCB CalRecycle PW-BOE	I-o through I-r: See 2.15 above.
	M - 4.3.2 / 50		City Planning/ LARWQCB CalRecycle SCL-LEA	I-o: The Old City North top deck has a new liquids handling system with 16 Alder-type storage tanks. This system is designed to handle recovered leachate. The installation of a double lined pipe to sewer directly to the sewer connection at the landfill entrance has not been completed. Liquids are now being trucked offsite. Four gabion liquid recovery structures were installed in Cell CC-4 Part 2.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Biologist	M - 4.1.1 / 6		City Planning/ LARWQCB CalRecycle SCL-LEA LADBS	I-o through I-r: See M - 4.2.12 / 28 above.
		Geology - 1.14	LARWQCB/ County Forester	I-o through I-r: See M - 4.2.12 / 28 above.
	M - 4.2.11 / 23		City Planning	I-o through I-r: See M - 4.2.12 / 28 above.
		Geology - 1.13	County DPW EPD/ County Forester LARWQCB	I-o through I-r: See M - 4.2.12 / 28 above.
	M - 4.2.12		SCL-LEA/ City Planning	I-o through I-r: See M - 4.2.12 / 28 above.
		Revegetation - 44.A	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-o through I-r: See M - 4.2.12 / 28 above.
		Revegetation - 44.F	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-o through I-r: See M - 4.2.12 / 28 above.
		Biota - 4.42	SCL-LEA	I-o through I-r: See M - 4.2.12 / 28 above.
		Air Quality - 6.02	SCAQMD/ SCL-LEA	I-o through I-r: See M - 4.2.12 / 28 above.
		Visual - 10.08	County Forester	I-o through I-r: See M - 4.2.12 / 28 above.
	M - 4.4.1 / 60		City Planning	<p>I-o: City deck C sage mitigation area was doing well. Fall removal of non-natives was not done yet. The PM-10 berm oak trees were doing well. No understory planting had occurred. City deck B sage mitigation was staked, the area cleared, and top soil spread and graded. A jute netting with seed applied by hydroseeding was being tested to establish vegetation on the County slopes in the sage mitigation area.</p> <p>I-p: City deck C sage mitigation was doing well. No removal of non-natives or other maintenance was done. The PM-10 trees were doing well. No understory planting was done. No work was done on the City deck B sage mitigation since the last monitoring. Additional jute netting was installed on the County sage mitigation slopes and were hydroseeded.</p> <p>I-q: City deck C sage mitigation was doing well. No maintenance or non-native plant removal appears to have been done. The PM-10 berm trees were doing well. No understory planting was done. Dust was observed blowing over the trees and leaving the site during high wind gusts. No progress on City deck B sage mitigation was observed. Additional jute netting was installed on the County sage mitigation slopes and hydroseeded.</p> <p>I-r: City deck C sage mitigation was doing well. No maintenance or non-native plant removal appears to have been done. The PM-10 berm trees were doing well. No understory planting was done. There was no progress on City deck B sage mitigation. Jute netting that was hydroseeded covered approximately 40% to 45% of the slopes in the County sage mitigation area. The remaining slope area had deep erosion rills and these slopes need straw wattles or other erosion control.</p>
		Biota - 4.27	County LEA/CDFW	I-o through I-r: See M - 4.4.1 / 60 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Biologist		Biota - 4.10	County LEA/CDFW	I-o through I-r: No Big-Cone Fir mitigation trees were monitored this quarter.
	M - 4.9.4 / 121		City Planning/Cal Recycle Cal OSHA LAFD City LEA	I-o through I-r: See T-4 above.
	M-4.9.4/125		City Planning/ CalRecycle Cal OSHA SCL-LEA	I-o through I-r: Throughout the 4th Quarter 2017, the south perimeter oil field gate was observed to be locked. I-r: The northern gate to the landfill was damaged and lying on the ground until December 2017. The northern entrance gate was repaired and locked in December 2017.
Paleontologist	M-4.19.2/191		City Planning	I-o through I-r: The paleontologist was monitoring grading activities in and adjacent to Cell CC-4 Part 2 construction.
		Ecological Significance 62	County Planning	I-o through I-r: See M-4.19.2/191 above.

Appendix II

Relevant Site Photos



November 13, 2017

Photo Location Map Key

Map Location	Title	Photo Number
1	Basin A	1 – 44
2	CC-4 Part 1 and CC-4 Part 2	45 – 187
3	Closure Turf and Posi-Shell	188 – 232
4	CC-3B Top Deck	233 – 291
5	Old City North Top Deck	292 – 306
6	County Sage Mitigation and Westside Drainage Channel	307 – 341
7	Basin D	342 – 353
8	Basin D Outlet Channel	354 – 367
9	Flares 9, 10, 11, and Gas-to-Energy Facility	368 – 414
10	County Top Deck	415 – 532
11	Big Cone Fir Mitigation	–
12	Basin B	433 – 444
13	Terminal Basin Inlets	445 – 451
14	Terminal Basin	452 – 521
15	Sewer Lift Station and Graywater Facility	522 – 532
16	Retaining Wall at San Fernando Road	533 – 582
17	City Deck C Sage Mitigation	583 – 608
18	City Deck B Sage Mitigation	609 – 622
19	City Deck A Sage Mitigation	–
20	Southern Ownership Buffer	–
–	Illegal Dumping and Windblown Litter	623 – 637
–	Offsite Odors	638 – 643
–	General Site	644 – 714



Photo 1: Basin A: October 26, 2017



Photo 2: Basin A: October 26, 2017



Photo 3: Basin A: October 26, 2017



Photo 4: Basin A: October 26, 2017



Photo 5: Basin A: October 26, 2017



Photo 6: Basin A: October 26, 2017



Photo 7: Basin A: October 26, 2017



Photo 8: Basin A: October 26, 2017



Photo 9: Basin A: October 26, 2017



Photo 10: Basin A Outlet Channel: October 26, 2017



Photo 11: Basin A: November 7, 2017



Photo 12: Basin A: November 7, 2017



Photo 13: Basin A: November 7, 2017



Photo 14: Basin A: November 7, 2017



Photo 15: Basin A: November 7, 2017



Photo 16: Basin A: November 7, 2017



Photo 17: Basin A: November 7, 2017



Photo 18: Basin A: November 7, 2017



Photo 19: Basin A: November 7, 2017



Photo 20: Basin A: November 7, 2017



Photo 21: Basin A: November 21, 2017



Photo 22: Basin A: November 21, 2017



Photo 23: Basin A: November 21, 2017



Photo 24: Basin A: November 21, 2017



Photo 25: Basin A: November 21, 2017



Photo 26: Basin A: November 21, 2017



Photo 27: Basin A: November 21, 2017



Photo 28: Basin A: November 21, 2017



Photo 29: Basin A: November 21, 2017



Photo 30: Basin A: November 21, 2017



Photo 31: Basin A: December 12, 2017



Photo 32: Basin A: December 12, 2017



Photo 33: Basin A: December 12, 2017



Photo 34: Basin A: December 12, 2017



Photo 35: Basin A: December 12, 2017



Photo 36: Basin A: December 12, 2017



Photo 37: Basin A Native Hillside: December 12, 2017



Photo 38: Basin A Native Hillside: December 12, 2017



Photo 39: Basin A Native Hillside: December 12, 2017



Photo 40: Basin A Native Hillside: December 12, 2017



Photo 41: Basin A Native Hillside: December 12, 2017



Photo 42: Basin A Native Hillside: December 12, 2017



Photo 43: Basin A Outlet Channel: December 12, 2017



Photo 44: Basin A Outlet Channel: December 12, 2017



Photo 45: CC4 Part 1 Fill Operations Area 900AM: October 26, 2017



Photo 46: CC4 Part 1 Fill Operations Area 900AM: October 26, 2017



Photo 47: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 48: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 49: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 50: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 51: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 52: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 53: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 54: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 55: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 56: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 57: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 58: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 59: Site Working Area CC4 Part 1 1030AM: October 26, 2017



Photo 60: Site Working Area CC4 Part 1 & 2 945AM: November 7, 2017



Photo 61: Site Working Area CC4 Part 1 & 2 945AM: November 7, 2017



Photo 62: Site Working Area CC4 Part 1 & 2 945AM: November 7, 2017



Photo 63: Site Working Area CC4 Part 1 & 2 945AM: November 7, 2017



Photo 64: Site Working Area CC4 Part 1 & 2 945AM: November 7, 2017



Photo 65: Site Working Area CC4 Part 1 & 2 945AM: November 7, 2017



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Photo 71: Site Working Area CC4 Part 1 & 2 945AM: November 7, 2017



Photo 72: Site Working Area CC4 Part 1 & 2 945AM: November 7, 2017



Photo 73: Site Working Area CC4 Part 1 & 2 945AM: November 7, 2017



Photo 74: Site Working Area CC4 Part 1 145PM: November 7, 2017



Photo 75: Site Working Area CC4 Part 1 145PM: November 7, 2017



Photo 76: Site Working Area CC4 Part 1 145PM: November 7, 2017



Photo 77: Site Working Area CC4 Part 1 145PM: November 7, 2017



Photo 78: Site Working Area CC4 Part 1 145PM: November 7, 2017



Photo 79: Site Working Area CC4 Part 1 145PM: November 7, 2017



Photo 80: Site Working Area CC4 Part 1 145PM: November 7, 2017



Photo 81: Site Working Area CC4 Part 1 145PM: November 7, 2017



Photo 82: Site Working Area CC4 Part 1 145PM: November 7, 2017



Photo 83: Site Working Area CC4 Part 1 145PM: November 7, 2017



Photo 84: Site Working Area CC4 Part 1 & 2 910AM: November 21, 2017



Photo 85: Site Working Area CC4 Part 1 & 2 910AM: November 21, 2017



Photo 86: Site Working Area CC4 Part 1 & 2 910AM: November 21, 2017



Photo 87: Site Working Area CC4 Part 1 & 2 910AM: November 21, 2017



Photo 88: Site Working Area CC4 Part 1 & 2 910AM: November 21, 2017



Photo 89: Site Working Area CC4 Part 1 & 2 910AM: November 21, 2017



Photo 90: Site Working Area CC4 Part 1 1030AM: November 21, 2017



Photo 91: Site Working Area CC4 Part 1 1030AM: November 21, 2017



Photo 92: Site Working Area CC4 Part 1 1030AM: November 21, 2017



Photo 93: Site Working Area CC4 Part 1 1030AM: November 21, 2017



Photo 94 Site Working Area CC4 Part 1 1030AM: November 21, 2017



Photo 95: Site Working Area CC4 Part 1 1030AM: November 21, 2017



Photo 96: Site Working Area CC4 Part 1 1030AM: November 21, 2017



Photo 97: Site Working Area CC4 Part 1 1030AM: November 21, 2017



Photo 98: Site Working Area CC4 Part 1 1030AM: November 21, 2017



Photo 99: Site Working Area CC4 Part 1 1030AM: November 21, 2017

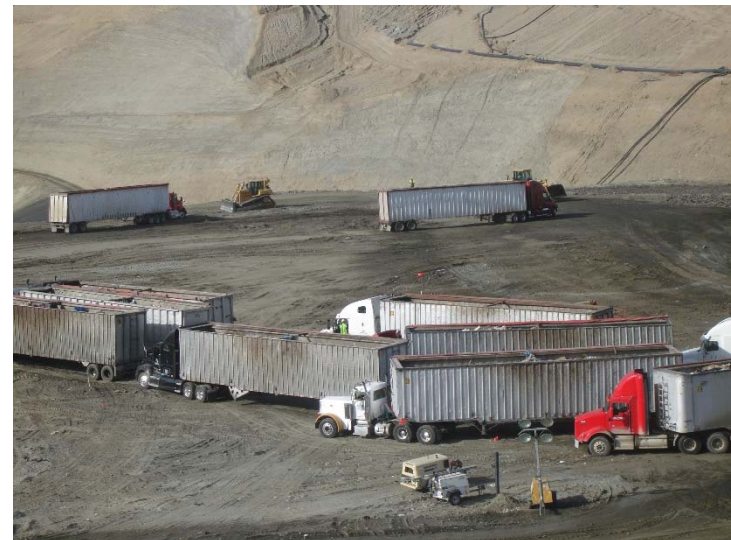


Photo 100: Site Working Area CC4 Part 1 1030AM: November 21, 2017



Photo 101: Site Working Area CC4 Part 1 1030AM: November 21, 2017



Photo 102: Site Working Area CC4 Part 1 1030AM: November 21, 2017



Photo 103: Site Working Area CC4 Part 1 & 2 1230PM: November 21, 2017



Photo 104: Site Working Area CC4 Part 1 & 2 1230PM: November 21, 2017



Photo 105: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 106: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 107: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 108: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 109: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 110: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 111: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 112: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 113: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 114: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 115: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 116: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 117: Site Working Area CC4 Parts 1 & 2: December 12, 2017



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Photo 119: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 120: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 121: Site Working Area CC4 Parts 1 & 2: December 12, 2017



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Photo 124: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 125: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 126: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 127: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 128: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 129: Site Working Area CC4 Parts 1 & 2: December 12, 2017



Photo 130: CC4 Part 2 Fill Operations Area 900AM: October 26, 2017



Photo 131: CC4 Part 2 Fill Operations Area 900AM: October 26, 2017



Photo 132: Site Working Area CC4 Part 2 1100AM: October 26, 2017



Photo 133: Site Working Area CC4 Part 2 1100AM: October 26, 2017



Photo 134: Site Working Area CC4 Part 2 1100AM: October 26, 2017



Photo 135: Site Working Area CC4 Part 2 1100AM: October 26, 2017



Photo 136: Site Working Area CC4 Part 2 1100AM: October 26, 2017



Photo 137: Site Working Area CC4 Part 2 1100AM: October 26, 2017



Photo 138: Site Working Area CC4 Part 2 1100AM: October 26, 2017



Photo 139: Site Working Area CC4 Part 2 1100AM: October 26, 2017

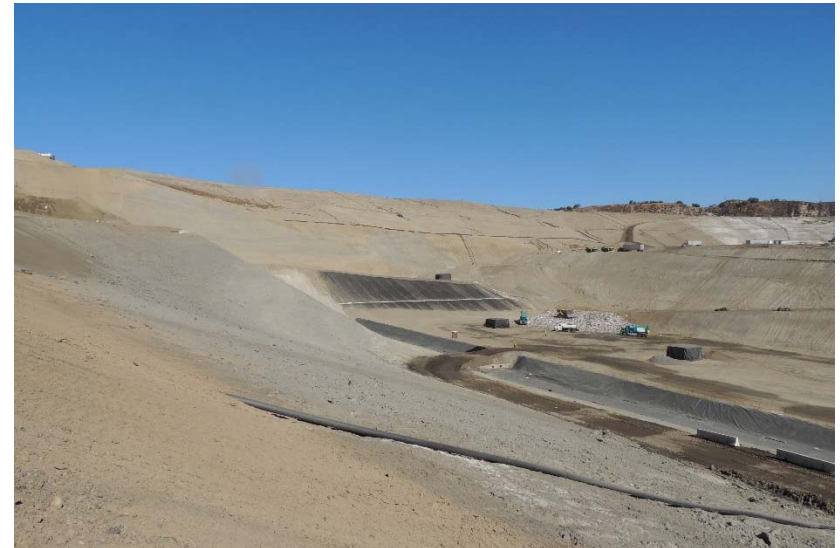


Photo 140: Site Working Area CC4 Part 2 Surface Drainage: October 26, 2017



**Photo 141: Site Working Area CC4 Part 2 Surface Drainage:
October 26, 2017**



**Photo 142: Site Working Area CC4 Part 2 Surface Drainage:
October 26, 2017**



**Photo 143: Site Working Area CC4 Part 2 Surface Drainage:
October 26, 2017**



**Photo 144: Site Working Area CC4 Part 2 Surface Drainage:
October 26, 2017**



Photo 145: Site Working Area CC4 Part 2 1100AM: October 26, 2017



Photo 146: Site Working Area CC4 Part 2 Surface Water Control: October 26, 2017



Photo 147: Site Working Area CC4 Part 2 Surface Water Control: October 26, 2017



Photo 148: Site Working Area CC4 Part 2 200PM: November 7, 2017



Photo 149: Site Working Area CC4 Part 2 200PM: November 7, 2017



Photo 150: Site Working Area CC4 Part 2 200PM: November 7, 2017



Photo 151: Site Working Area CC4 Part 2 200PM: November 7, 2017



Photo 152: Site Working Area CC4 Part 2 200PM: November 7, 2017



Photo 153: Site Working Area CC4 Part 2 200PM: November 7, 2017



Photo 154: Site Working Area CC4 Part 2 200PM: November 7, 2017



Photo 155: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 156: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 157: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 158: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 159: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 160: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 161: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 162: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 163: Site Working Area CC4 Part 2 1100AM: November 21, 2017

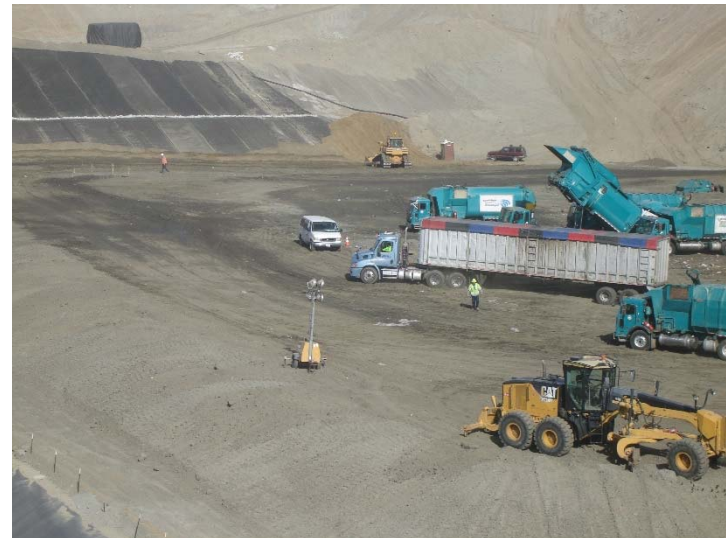


Photo 164: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 165: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 166: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 167: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 168: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 169: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 170: Site Working Area CC4 Part 2 1100AM: November 21, 2017



Photo 171: CC3A Stockpile Removal 900AM: October 26, 2017



Photo 172: Cell CC3A Liquid Break-Out Area: October 26, 2017



Photo 173: Cell CC3A Liquid Break-Out Area: October 26, 2017



Photo 174: Cell CC3A Liquid Break-Out Area: October 26, 2017



Photo 175: Cell CC3A Liquid Break-Out Area: October 26, 2017



Photo 176: Cell CC3A Liquid Break-Out Area: October 26, 2017



Photo 177: Cell CC3A Liquid Break-Out Area: October 26, 2017



Photo 178: CC3A Top Deck Soil Amending: October 26, 2017



Photo 179: CC3A Top Deck Soil Amending: October 26, 2017



Photo 180: CC3A Top Deck Soil Amending: October 26, 2017



Photo 181: CC3A Top Deck Soil Amending: October 26, 2017



Photo 182: CC3A Top Deck Soil Amending: October 26, 2017



Photo 183: CC3A Top Deck Soil Amending: October 26, 2017



Photo 184: CC3A Top Deck Soil Amending: October 26, 2017



Photo 185: CC3A Top Deck Soil Amending: November 21, 2017



Photo 186: CC3A Top Deck Soil Amending: November 21, 2017



Photo 187: CC3A Top Deck Soil Amending: November 21, 2017



Photo 188: Closure Turf & Posi-Shell: October 26, 2017



Photo 189: Closure Turf & Posi-Shell: October 26, 2017



Photo 190: Closure Turf & Posi-Shell: October 26, 2017



Photo 191: Closure Turf & Posi-Shell: October 26, 2017



Photo 192: Closure Turf & Posi-Shell: October 26, 2017



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Photo 194: Closure Turf & Posi-Shell: October 26, 2017



Photo 195: Closure Turf & Posi-Shell: October 26, 2017



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Photo 198: Closure Turf & Posi-Shell: October 26, 2017



Photo 199: Closure Turf & Posi-Shell: October 26, 2017



Photo 200: Closure Turf & Posi-Shell: October 26, 2017



Photo 201: Closure Turf & Posi-Shell: October 26, 2017



Photo 202: Closure Turf & Posi-Shell: October 26, 2017



Photo 203: Closure Turf & Posi-Shell: November 7, 2017



Photo 204: Closure Turf & Posi-Shell: November 7, 2017



Photo 205: Closure Turf & Posi-Shell: November 7, 2017



Photo 206: Closure Turf & Posi-Shell: November 7, 2017



Photo 207: Closure Turf & Posi-Shell: November 7, 2017



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Photo 210: Closure Turf & Posi-Shell: November 21, 2017



Photo 211: Closure Turf & Posi-Shell: November 21, 2017



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Photo 213: Closure Turf & Posi-Shell: November 21, 2017



Photo 214: Closure Turf & Posi-Shell: November 21, 2017



Photo 215: Closure Turf & Posi-Shell: November 21, 2017



Photo 216: Closure Turf & Posi-Shell: November 21, 2017



Photo 217: Closure Turf & Posi-Shell: November 21, 2017



Photo 218: Closure Turf & Posi-Shell: November 21, 2017



Photo 219: Closure Turf & Posi-Shell: November 21, 2017



Photo 220: Closure Turf & Posi-Shell: November 21, 2017



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



**Photo 222: Closure Turf & Posi-Shell & Top Deck Revegetation:
December 12, 2017**



**Photo 223: Closure Turf & Posi-Shell & Top Deck Revegetation:
December 12, 2017**



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



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



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



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



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



Photo 229: Closure Turf & Posi-Shell: December 12, 2017



Photo 230: Closure Turf & Posi-Shell: December 12, 2017



Photo 231: Closure Turf & Posi-Shell: December 12, 2017



Photo 232: Closure Turf & Posi-Shell: December 12, 2017



Photo 233 CC3B Top Deck: October 26, 2017



Photo 234: CC3B Top Deck: October 26, 2017



Photo 235: CC3B Top Deck: October 26, 2017



Photo 236: CC3B Top Deck: October 26, 2017



Photo 237: CC3B Top Deck: October 26, 2017



Photo 238: Basin CC3B: October 26, 2017



Photo 239: Basin CC3B: October 26, 2017



Photo 240: Basin CC3B: October 26, 2017



Photo 241: Basin CC3B: October 26, 2017



Photo 242: Basin CC3B: October 26, 2017



Photo 243: Basin CC3B Outlet: October 26, 2017



Photo 244: Basin CC3B Outlet: October 26, 2017



Photo 245: Basin CC3B: November 7, 2017



Photo 246: Basin CC3B: November 7, 2017



Photo 247: Basin CC3B: November 7, 2017



Photo 248: Basin CC3B Plugged Low Flow-Outlet: November 7, 2017



Photo 249: CC3B Top Deck: November 21, 2017



Photo 250: CC3B Top Deck: November 21, 2017



Photo 251: CC3B Top Deck: November 21, 2017



Photo 252: CC3B Top Deck: November 21, 2017



Photo 253: CC3B Top Deck: November 21, 2017



Photo 254: CC3B Top Deck: November 21, 2017



Photo 255: Old City South Slopes: November 21, 2017



Photo 256: Old City South Slopes: November 21, 2017



Photo 257: Old City South Slopes: November 21, 2017



Photo 258: Old City South Slopes: November 21, 2017



Photo 259: Old City South Slopes: November 21, 2017



Photo 260: Old City South Slopes: November 21, 2017



Photo 261: Old City South Slopes: November 21, 2017



Photo 262: Flare 3: November 21, 2017



Photo 263: Basin CC3B Plugged Low Flow-Outlet: November 21, 2017



Photo 264: Basin CC3B Plugged Low Flow-Outlet: November 21, 2017



Photo 265: Basin CC3B Plugged Low Flow-Outlet: November 21, 2017



Photo 266: Top Deck & Slope Revegetation: December 12, 2017



Photo 267: Top Deck & Slope Revegetation: December 12, 2017



Photo 268: Top Deck & Slope Revegetation: December 12, 2017



Photo 269: Top Deck & Slope Revegetation: December 12, 2017



Photo 270: Top Deck & Slope Revegetation: December 12, 2017



Photo 271: Top Deck & Slope Revegetation: December 12, 2017



Photo 272: Top Deck & Slope Revegetation: December 12, 2017



Photo 273: Top Deck & Slope Revegetation: December 12, 2017



Photo 274: Top Deck & Slope Revegetation: December 12, 2017



Photo 275: Top Deck & Slope Revegetation: December 12, 2017



Photo 276: Top Deck & Slope Revegetation: December 12, 2017



Photo 277: Top Deck & Slope Revegetation: December 12, 2017



Photo 278: Top Deck & Slope Revegetation: December 12, 2017



Photo 279: Top Deck & Slope Revegetation: December 12, 2017



Photo 280: Top Deck & Slope Revegetation: December 12, 2017



Photo 281: Top Deck & Slope Revegetation: December 12, 2017



Photo 282: Top Deck & Slope Revegetation: December 12, 2017



Photo 283: Top Deck & Slope Revegetation: December 12, 2017



Photo 284: Top Deck & Slope Revegetation: December 12, 2017



Photo 285: Top Deck & Slope Revegetation: December 12, 2017



Photo 286: Top Deck & Slope Revegetation: December 12, 2017



Photo 287: Old City North-Eastern and CC3B Top Decks: December 12, 2017



Photo 288: CC3B Top Deck: December 12, 2017



Photo 289: Basin CC3B Low & High Flow Outlet: December 12, 2017



Photo 290: Basin CC3B Low & High Flow Outlet: December 12, 2017



Photo 291: Basin CC3B Low & High Flow Outlet: December 12, 2017



Photo 292: Old City North-Eastern Top Deck: Oct 26, 2017



Photo 293: Old City North-Eastern Top Deck: Oct 26, 2017



Photo 294: Old City North-Eastern Top Deck: Oct 26, 2017



Photo 295: Old City North-Eastern Top Deck: Oct 26, 2017



Photo 296: Old City Slope South of Office Flares 3: October 26, 2017



Photo 297: Old City Slope South of Office Flares 3: October 26, 2017



Photo 298: Old City Slope South of Office Flares 3: October 26, 2017



Photo 299: Old City Slope South of Office Flares 3: October 26, 2017



Photo 300: Old City Slope South of Office Flares 3: October 26, 2017



Photo 301: Flare 3: November 7, 2017



Photo 302: Flare 3: November 7, 2017



Photo 303: Flare 3: November 7, 2017



Photo 304: Old City North-Eastern and CC3B Top Decks: November 21, 2017



Photo 305: Old City North-Eastern Top Deck: November 21, 2017



Photo 306: Old City North-Eastern Top Deck: November 21, 2017



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



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



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



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

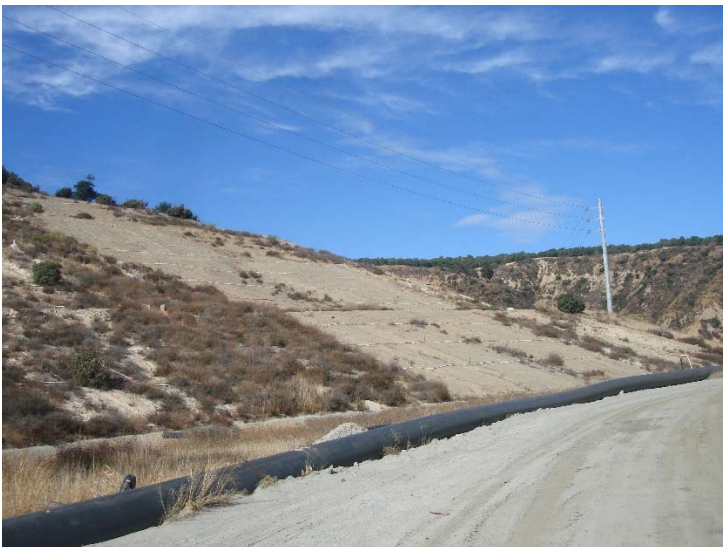


Photo 311: County Sage Mitigation Area Slope: November 7, 2017



Photo 312: County Sage Mitigation Area Slope: November 7, 2017



Photo 313: County Sage Mitigation Area Slope: November 7, 2017



Photo 314: County Sage Mitigation Area Slope: November 7, 2017



Photo 315: County Sage Mitigation Area Slope: November 7, 2017



Photo 316: County Sage Mitigation Area Slope: November 7, 2017



Photo 317: County Sage Mitigation Area Slope: November 21, 2017



Photo 318: County Sage Mitigation Area Slope: November 21, 2017



Photo 319: County Sage Mitigation Area Slope: November 21, 2017



Photo 320: County Sage Mitigation Area Slope: December 12, 2017



Photo 321: County Sage Mitigation Area Slope: December 12, 2017



Photo 322: County Sage Mitigation Area Slope: December 12, 2017



Photo 323: County Sage Mitigation Area Slope: December 12, 2017



Photo 324: County Sage Mitigation Area Slope: December 12, 2017



Photo 325: County Sage Mitigation Area Slope: December 12, 2017



Photo 326: County Sage Mitigation Area Slope: December 12, 2017



Photo 327: County Sage Mitigation Area Slope: December 12, 2017



Photo 328: County Sage Mitigation Area Slope: December 12, 2017



Photo 329: New Concrete Westside Drainage Channel: October 26, 2017



Photo 330: New Concrete Westside Drainage Channel: October 26, 2017



Photo 331: New Concrete Westside Drainage Channel: October 26, 2017



Photo 332: New Concrete Westside Drainage Channel: October 26, 2017



Photo 333: New Concrete Westside Drainage Channel: October 26, 2017



Photo 334: New Concrete Westside Drainage Channel: October 26, 2017



Photo 335: New Concrete Westside Drainage Channel: October 26, 2017



Photo 336: New Concrete Westside Drainage Channel: October 26, 2017



Photo 337: New Concrete Westside Drainage Channel: October 26, 2017



Photo 338: New Concrete Westside Drainage Channel: October 26, 2017



Photo 339: New Concrete Westside Drainage Channel: October 26, 2017



Photo 340: New Concrete Westside Drainage Channel: October 26, 2017



Photo 341: New Concrete Westside Drainage Channel: October 26, 2017



Photo 342: Waste Material near Basin D Storage Area: Oct 26, 2017



Photo 343: Waste Material near Basin D Storage Area: Oct 26, 2017



Photo 344: Waste Material near Basin D Storage Area: November 21, 2017



Photo 345: Waste Material near Basin D Storage Area: November 21, 2017



Photo 346: Basin D: November 21, 2017



Photo 347: Basin D: November 21, 2017



Photo 348: Basin D: November 21, 2017



Photo 349: Basin D: November 21, 2017



Photo 350: Basin D: November 21, 2017



Photo 351: Basin D: November 21, 2017



Photo 352: Waste Material near Basin D Storage Area: December 12, 2017



Photo 353: Waste Material near Basin D Storage Area: December 12, 2017



Photo 354: Basin D Outlet Channel: Oct 26, 2017



Photo 355: Basin D Outlet Channel: Oct 26, 2017



Photo 356: Basin D Outlet Channel: Oct 26, 2017



Photo 357: Basin D Outlet Channel: Oct 26, 2017



Photo 358: Basin D Outlet Channel: November 7, 2017



Photo 359: Basin D Outlet Channel: November 7, 2017



Photo 360: Basin D Outlet Channel: November 7, 2017



Photo 361: Basin D Outlet Channel: November 21, 2017



Photo 362: Basin D Outlet Channel: November 21, 2017



Photo 363: Basin D Outlet Channel: November 21, 2017



Photo 364: Basin D Outlet Channel: December 12, 2017



Photo 365: Basin D Outlet Channel: December 12, 2017



Photo 367: Basin D Outlet Channel: December 12, 2017



Photo 366: Basin D Outlet Channel: December 12, 2017



Photo 368: Flare 11 Construction: October 26, 2017



Photo 369: Flare 11 Construction: October 26, 2017



Photo 370: Flare 11 Construction: October 26, 2017



Photo 371: Flare 11 Construction: October 26, 2017



Photo 372: Flare 11 Construction: October 26, 2017



Photo 373: Flare 11 Construction: October 26, 2017



Photo 375: Flare 11 Construction: October 26, 2017



Photo 374: Flare 11 Construction: October 26, 2017



Photo 376: Flare 11 Construction: October 26, 2017



Photo 377: Flare 11 Construction: October 26, 2017



Photo 378: Flare 11 Construction: October 26, 2017



Photo 379: Flare 11 Construction: October 26, 2017



Photo 380: Flare 11 Construction: October 26, 2017



Photo 381: Flare 11 Construction: October 26, 2017



Photo 382: Flare 11 Construction: October 26, 2017



Photo 383: Flare 11 Construction: October 26, 2017



Photo 384: Flare 11 Construction: October 26, 2017



Photo 385: Flare 11 Construction: October 26, 2017



Photo 386: Flare 11 Construction: October 26, 2017



Photo 387: Flare 11 & 10: November 7, 2017



Photo 388: Flare 11: November 7, 2017



Photo 389: Flare 11: November 7, 2017



Photo 390: Flare 11: November 7, 2017



Photo 391: Flare 11: November 7, 2017



Photo 392: Flare 11: November 7, 2017



Photo 393: Flare 11: November 7, 2017



Photo 394: Flare 11 Air Blower & Filter: November 7, 2017



Photo 395: Flares 9, 10 & 11 Blower Knock-Out Liquids: November 21, 2017



Photo 396: Flares 9, 10 & 11 Unsealed Dirt Pad Area: November 21, 2017



Photo 397: Flares 9, 10 & 11 Sealed Dirt Pad Area: November 21, 2017



Photo 398: Flares 9, 10 & 11 Sealed Dirt Pad Area: November 21, 2017



Photo 399: Flares 9, 10 & 11 Sealed Dirt Pad Area: November 21, 2017



Photo 400: Flares 9, 10 & 11 Sealed Dirt Pad Area: November 21, 2017



Photo 401: Flares 9, 10 & 11 Sealed Dirt Pad Area: November 21, 2017



Photo 402: Flares 9, 10 & 11 Sealed Dirt Pad Area: November 21, 2017



Photo 403: Flares 9, 10 & 11 Partially Sealed Dirt Pad Area: November 21, 2017



Photo 404: Broken Northern Site Access Gate: November 21, 2017



Photo 405: Broken Northern Site Access Gate: November 21, 2017



Photo 406: Flare 8 Pad Site Debris: November 21, 2017



Photo 407: Flare 9, 10, & 11: December 12, 2017



Photo 408: Flare 9, 10, & 11 Blower Skid: December 12, 2017



Photo 409: Flare 11: December 12, 2017



Photo 410: Flare 11: December 12, 2017



Photo 411: Flare 11: December 12, 2017



Photo 412: Northern Access Gate Repaired & Locked: December 12, 2017



Photo 413: Flare 8 Pad Site Debris: December 12, 2017



Photo 414: Vegetation Growing Under Flare Blower: December 12, 2017



Photo 415: County Top Deck: November 7, 2017



Photo 416: County Top Deck: November 7, 2017



Photo 417: County Top Deck: November 7, 2017



Photo 418: County Top Deck: November 7, 2017



Photo 419: County Top Deck: November 7, 2017



Photo 420: County Top Deck: November 7, 2017



Photo 421: County Top Deck: November 7, 2017



Photo 422: County Top Deck: November 7, 2017



Photo 423: County Top Deck: November 21, 2017



Photo 424: County Top Deck: November 21, 2017



Photo 425: County Top Deck: November 21, 2017



Photo 426: County Top Deck: November 21, 2017



Photo 427: County Top Deck: November 21, 2017



Photo 428: County Top Deck: December 12, 2017



Photo 429: County Top Deck: December 12, 2017



Photo 430: County Top Deck: December 12, 2017



Photo 431: County Top Deck: December 12, 2017



Photo 432: County Top Deck: December 12, 2017



Photo 433: Basin B: October 26, 2017



Photo 434: Basin B: November 7, 2017



Photo 435: Basin B: November 7, 2017



Photo 436: Basin B: November 7, 2017



Photo 437: Basin B: November 21, 2017



Photo 438: Basin B: November 21, 2017



Photo 439: Basin B: November 21, 2017



Photo 440: Basin B: November 21, 2017



Photo 441: Basin B: December 12, 2017



Photo 442: Basin B: December 12, 2017



Photo 443: Basin B: December 12, 2017



Photo 444: Basin B Outlet Channel: December 12, 2017



Photo 445: Terminal Basin Inlet Channel: October 26, 2017



Photo 446: Terminal Basin Inlet Channel: October 26, 2017



Photo 447: Terminal Basin Inlet Channel: November 7, 2017



Photo 448: Terminal Basin Inlet Channel: November 7, 2017



Photo 449: Terminal Basin Inlet: November 7, 2017



Photo 450: Terminal Basin Inlet: December 12, 2017



Photo 451: Terminal Basin Inlet: December 12, 2017



Photo 452: Terminal Basin: October 26, 2017



Photo 453: Terminal Basin: October 26, 2017



Photo 454: Terminal Basin: October 26, 2017

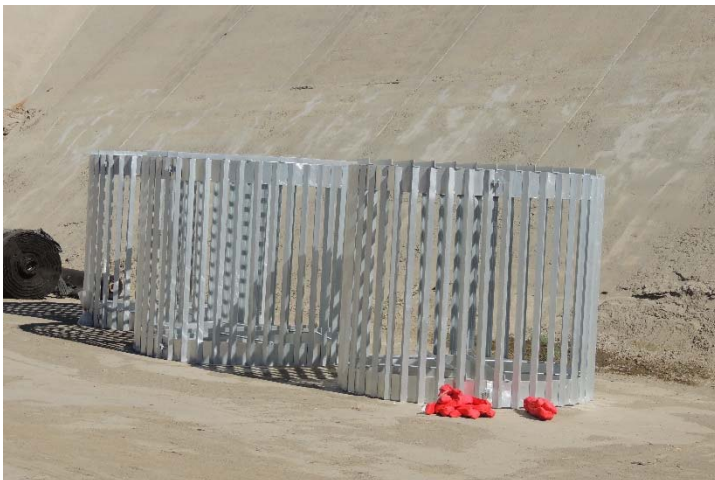


Photo 455: Terminal Basin: October 26, 2017



Photo 456: Terminal Basin: October 26, 2017

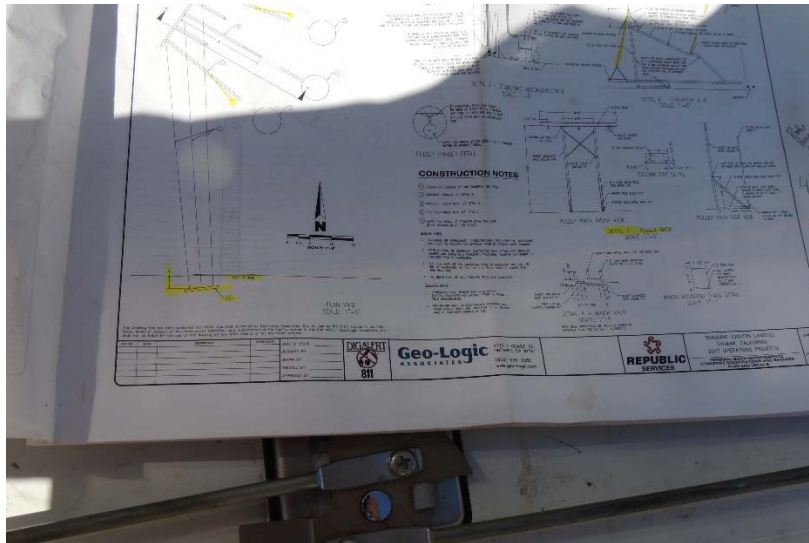


Photo 457: Terminal Basin: October 26, 2017



Photo 458: Terminal Basin: October 26, 2017



Photo 459: Terminal Basin: October 26, 2017



Photo 460: Terminal Basin: October 26, 2017



Photo 461: Terminal Basin: October 26, 2017



Photo 462: Terminal Basin: October 26, 2017



Photo 463: Terminal Basin: October 26, 2017



Photo 464: Terminal Basin: October 26, 2017



Photo 465: Terminal Basin: October 26, 2017



Photo 467 Terminal Basin: October 26, 2017



Photo 466: Terminal Basin: October 26, 2017



Photo 468: Access Road Prior Slope Wet Area near Terminal Basin: October 26, 2017



Photo 469: Access Road Prior Slope Wet Area near Terminal Basin: October 26, 2017



Photo 470: Access Road Prior Slope Wet Area near Terminal Basin: October 26, 2017



Photo 471: Access Road Prior Slope Wet Area near Terminal Basin: October 26, 2017



Photo 472: Access Road Prior Slope Wet Area near Terminal Basin: October 26, 2017



Photo 473: Terminal Basin: November 7, 2017



Photo 474: Terminal Basin: November 7, 2017



Photo 475: Terminal Basin: November 7, 2017



Photo 476: Terminal Basin: November 7, 2017



Photo 477: Terminal Basin: November 7, 2017



Photo 478: Terminal Basin: November 7, 2017



Photo 479: Terminal Basin: November 7, 2017



Photo 480: Terminal Basin: November 7, 2017



Photo 481: Terminal Basin: November 7, 2017



Photo 482: Terminal Basin: November 7, 2017



Photo 483: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 484: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 485: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 486: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 487: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 488: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 489: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 490: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 491: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 492: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 493: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 494: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 495: Terminal Basin New Skimmer Risers: November 7, 2017



Photo 496: Terminal Basin Outlet Channel: November 7, 2017

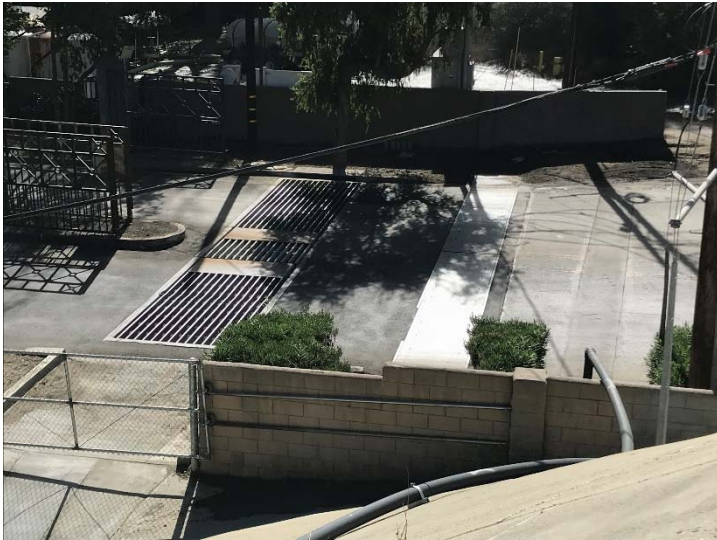


Photo 497: Entrance Road Drainage Cattleguard: November 7, 2017



Photo 498: Terminal Basin New Skimmer Risers Low Flow Outlet: November 21, 2017



Photo 499: Terminal Basin New Skimmer Risers Low Flow Outlet: November 21, 2017



Photo 500: Terminal Basin New Skimmer Risers Low Flow Outlet: November 21, 2017



Photo 501: Westside Drainage to Terminal Basin: December 12, 2017



Photo 502: Basin CC3B Outlet to Terminal Basin: December 12, 2017



Photo 503: Basin CC3B Outlet to Terminal Basin: December 12, 2017



Photo 504: Basin CC3B Outlet to Terminal Basin: December 12, 2017



Photo 505: Terminal Basin: December 12, 2017



Photo 506: Terminal Basin: December 12, 2017



Photo 507: Terminal Basin: December 12, 2017



Photo 508: Terminal Basin: December 12, 2017



**Photo 509: Terminal Basin New Skimmer Risers Outlet System:
December 12, 2017**



**Photo 510: Terminal Basin New Skimmer Risers Outlet System:
December 12, 2017**



**Photo 511: Terminal Basin New Skimmer Risers Outlet System:
December 12, 2017**



**Photo 512: Terminal Basin New Skimmer Risers Outlet System:
December 12, 2017**



**Photo 513: Terminal Basin New Skimmer Risers Outlet System:
December 12, 2017**



**Photo 514: Terminal Basin New Skimmer Risers Outlet System:
December 12, 2017**



**Photo 515: Terminal Basin New Skimmer Risers Outlet System:
December 12, 2017**



**Photo 516: Terminal Basin New Skimmer Risers Outlet System:
December 12, 2017**



**Photo 517: Terminal Basin New Skimmer Risers Outlet System:
December 12, 2017**



**Photo 518: Access Road Slope Movement Area near Terminal
Basin: December 12, 2017**



**Photo 519: Access Road Slope Movement Area near Terminal
Basin: December 12, 2017**



**Photo 520: Access Road Slope Movement Area near Terminal
Basin: December 12, 2017**



Photo 521: Access Road Slope Movement Area near Terminal Basin: December 12, 2017



Photo 523: Sewer Lift Pump Area: November 7, 2017



Photo 522: Leachate Treatment Systems: November 7, 2017



Photo 524: Leachate Treatment Systems Temporary Strong Localized Odor: November 7, 2017



Photo 525: Leachate Treatment Systems Temporary Strong Localized Odor: November 7, 2017

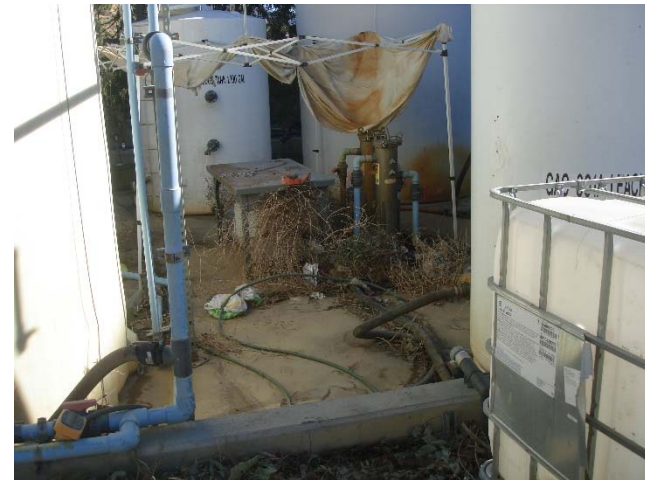


Photo 526: Debris In & Around Leachate Treatment Systems: December 12, 2017



Photo 527: Debris In & Around Leachate Treatment Systems: December 12, 2017



Photo 528: Debris In & Around Leachate Treatment Systems: December 12, 2017



**Photo 529: Debris In & Around Leachate Treatment Systems:
December 12, 2017**



**Photo 530: Debris In & Around Leachate Treatment Systems:
December 12, 2017**



**Photo 531: Localized odor near Sewer Connection Pump:
December 12, 2017**



**Photo 532: New Equipment Foundation near Sewer Connection:
December 12, 2017**



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



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



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



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



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



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



**Photo 539: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 540: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 541: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 542: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 543: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 544: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 545: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 546: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 547: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 548: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 549: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 550: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 551: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 552: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 553: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 554: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 555: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 556: Frontage Retaining Wall on San Fernando Road:
October 26, 2017**



**Photo 557: Frontage Retaining Wall on San Fernando Road:
November 7, 2017**



**Photo 558: Frontage Retaining Wall on San Fernando Road:
November 7, 2017**



**Photo 559: Frontage Retaining Wall on San Fernando Road:
November 7, 2017**



**Photo 560: Frontage Retaining Wall on San Fernando Road:
November 7, 2017**



**Photo 561: Frontage Retaining Wall on San Fernando Road:
November 7, 2017**



**Photo 562: Frontage Retaining Wall on San Fernando Road:
November 7, 2017**



**Photo 563: Frontage Retaining Wall on San Fernando Road:
November 7, 2017**



**Photo 564: Frontage Retaining Wall on San Fernando Road:
November 7, 2017**



**Photo 565: Frontage Retaining Wall on San Fernando Road
Plugged Drainage: November 7, 2017**



**Photo 567: Frontage Retaining Wall on San Fernando Road
Plugged Drainage: November 7, 2017**



**Photo 566: Frontage Retaining Wall on San Fernando Road
Plugged Drainage: November 7, 2017**



**Photo 568: Frontage Retaining Wall on San Fernando Road
Plugged Drainage: November 7, 2017**



**Photo 569: Frontage Retaining Wall on San Fernando Road
Plugged Drainage: November 7, 2017**



**Photo 570: Frontage Retaining Wall on San Fernando Road
Plugged Drainage: November 7, 2017**



**Photo 571: Frontage Retaining Wall on San Fernando Road
Plugged Drainage: November 7, 2017**



**Photo 572: Frontage Retaining Wall on San Fernando Road
Plugged Drainage: November 7, 2017**



**Photo 573: Frontage Retaining Wall on San Fernando Road:
December 12, 2017**



**Photo 574: Frontage Retaining Wall on San Fernando Road:
December 12, 2017**



**Photo 575: Frontage Retaining Wall on San Fernando Road:
December 12, 2017**



**Photo 576: Frontage Retaining Wall on San Fernando Road:
December 12, 2017**



**Photo 577: Frontage Retaining Wall on San Fernando Road:
December 12, 2017**



**Photo 578: Frontage Retaining Wall on San Fernando Road:
December 12, 2017**



**Photo 579: Frontage Retaining Wall on San Fernando Road:
December 12, 2017**



**Photo 580: Frontage Retaining Wall on San Fernando Road:
December 12, 2017**



**Photo 581: Frontage Retaining Wall on San Fernando Road:
December 12, 2017**



**Photo 582: Frontage Retaining Wall on San Fernando Road:
December 12, 2017**



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



**Photo 584: Deck C Sage Mitigation Area Dust Boss: October, 26,
2017**



Photo 585: Deck C Sage Mitigation Area Dust Boss: October, 26, 2017



Photo 586: Deck C Sage Mitigation Area Dust Boss: October, 26, 2017



Photo 587: Deck C Sage Mitigation Area Dust Boss: October, 26, 2017



Photo 588: PM 10 Berm Area: October 26, 2017



Photo 589: PM 10 Berm Area: October 26, 2017



Photo 590: PM 10 Berm Area: October 26, 2017



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



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



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



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



Photo 595: PM 10 Berm Area: November 7, 2017



Photo 596: Deck C Mitigation Area: November 7, 2017



Photo 597: Deck C Mitigation Area: November 7, 2017



Photo 599: PM 10 Berm Area: November 21, 2017



Photo 598: PM 10 Berm Area: November 21, 2017



Photo 600: PM 10 Berm Area: November 21, 2017



Photo 601: PM 10 Berm Area: November 21, 2017



Photo 602: Deck C Sage Mitigation Area: November 21, 2017



Photo 603: Deck C Sage Mitigation Area: November 21, 2017



Photo 604: Deck C Sage Mitigation Area: November 21, 2017



Photo 605: Deck C Sage Mitigation Area: November 21, 2017



Photo 606: Deck C Sage Mitigation Area: December 12, 2017



Photo 607: Deck C Sage Mitigation Area: December 12, 2017



Photo 608: Deck C Sage Mitigation Area: December 12, 2017



Photo 609: Deck B Sage Mitigation Area: October 26, 2017



Photo 610: Deck B Sage Mitigation Area: October 26, 2017



Photo 611: Deck B Sage Mitigation Area: October 26, 2017



Photo 612: Deck B Sage Mitigation Area: November 7, 2017



Photo 613: Deck B Sage Mitigation Area: November 7, 2017



Photo 614: Deck B Sage Mitigation Area: November 7, 2017



**Photo 615: New Power Pole & Power Supply to City Deck C & B:
November 7, 2017**



**Photo 616: New Power Pole & Power Supply to City Deck C & B:
November 7, 2017**



**Photo 617: New Power Pole & Power Supply to City Deck C & B:
November 7, 2017**



**Photo 618: New Power Pole & Power Supply to City Deck C & B:
November 7, 2017**



**Photo 619: Deck B Slope Drainage Channel near Flare 1: November
7, 2017**



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



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



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



**Photo 623: Illegal Dumping at Sierra Highway near I-14 Overpass:
October 26, 2017**



**Photo 624: Illegal Dumping at Sierra Highway near I-14 Overpass:
October 26, 2017**



**Photo 625: Illegal Dumping at Sierra Highway near I-14 Overpass:
October 26, 2017**



**Photo 626: Liquid Stains on Pavement- Balboa Blvd at Woodley
Ave: October 26 2017**



**Photo 627: Illegal Dumping at Sierra Highway near I-14 Overpass:
November 7, 2017**



**Photo 628: Illegal Dumping at Sierra Highway near I-14 Overpass:
November 21, 2017**



Photo 629: Illegal Dumping on San Fernando Road near Old Road Junction: November 21, 2017



Photo 631: Liquid Stains on Pavement- Balboa Blvd at Woodley Ave: November 21, 2017



Photo 630: Liquid Stains on Pavement- Balboa Blvd at Woodley Ave: November 21, 2017



Photo 632: Liquid Stains on Pavement- Balboa Blvd at Woodley Ave: November 21, 2017



Photo 633: Truck Leaking Liquids: December 12, 2017



Photo 635: Truck Leaking Liquids: December 12, 2017



Photo 634: Truck Leaking Liquids: December 12, 2017



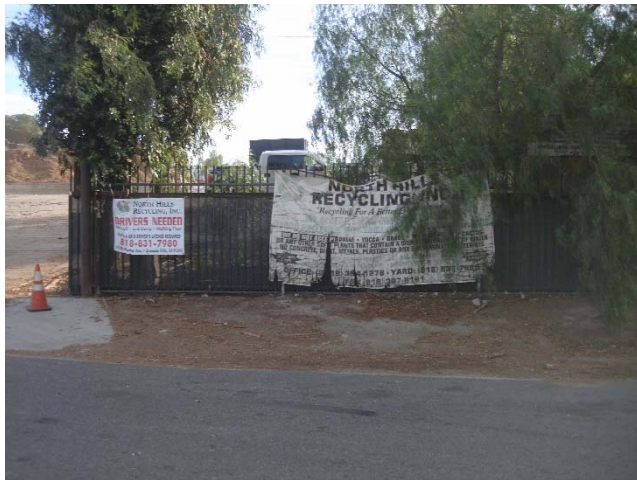
Photo 636: Truck Leaking Liquids: December 12, 2017



**Photo 637: Illegal Dumping at Sierra Highway near I-14 Overpass:
December 12, 2017**



**Photo 638: Temporary Localized Odor New Carbon Dum:
November 7, 2017**



**Photo 639: Greenwaste and Smoldering Greenwaste Odor near
North Hills Recycling: November 21, 2017**



**Photo 640: Greenwaste and Smoldering Greenwaste Odor near
North Hills Recycling: November 21, 2017**



**Photo 641: Localized Odor near Front Wall from Sewer Connection
Area: December 12, 2017**



**Photo 642: Localized Odor near Front Wall from Sewer Connection
Area: December 12, 2017**



**Photo 643: Localized Odor near Front Wall from Sewer Connection
Area: December 12, 2017**



Photo 644: Site: October 26, 2017



Photo 645: Site: October 26, 2017



Photo 646: Site: October 26, 2017



Photo 647: Site: October 26, 2017



Photo 648: Site: October 26, 2017



Photo 649: Site: October 26, 2017



Photo 650: Site: October 26, 2017



Photo 651: Site: October 26, 2017



Photo 652: Site: November 7, 2017



Photo 653: Site: November 7, 2017



Photo 654: Site: November 7, 2017



Photo 655: Site: November 7, 2017



Photo 656: Site: November 7, 2017



Photo 657: Site: November 7, 2017



Photo 658: Site: November 7, 2017



Photo 659: Site: November 7, 2017



Photo 660: Site: November 7, 2017



Photo 661: Site: November 7, 2017



Photo 662: Site: November 7, 2017



Photo 663: Site: November 7, 2017



Photo 664: Site: November 7, 2017



Photo 665: Site: November 7, 2017



Photo 666: Site: November 7, 2017



Photo 667: Site: November 7, 2017



Photo 668: Site: November 7, 2017



Photo 669: Site: November 7, 2017



Photo 670: Site: November 7, 2017



Photo 671: Site: November 7, 2017



Photo 672: Site: November 7, 2017



Photo 673: Site: November 7, 2017



Photo 674: Site: November 7, 2017



Photo 675: Site: November 7, 2017



Photo 676: Site: November 7, 2017



Photo 677: Site: November 7, 2017



Photo 678: Site: November 7, 2017



Photo 679: Site: November 7, 2017



Photo 680: Site: November 7, 2017



Photo 681: Site: November 7, 2017



Photo 682: Site: November 7, 2017



Photo 683: Site: November 7, 2017



Photo 684: Site: November 21, 2017



Photo 685: Site: November 21, 2017



Photo 686: Site: November 21, 2017



Photo 687: Site: November 21, 2017



Photo 688: Site: November 21, 2017



Photo 689: Site: November 21, 2017



Photo 690: Site: November 21, 2017



Photo 691: Site: November 21, 2017



Photo 692: Site: November 21, 2017



Photo 693: Site: November 21, 2017



Photo 694: Site: November 21, 2017



Photo 695: Site: November 21, 2017



Photo 696: Site: November 21, 2017



Photo 697: Site: November 21, 2017



Photo 698: Site: November 21, 2017



Photo 699: Site: November 21, 2017



Photo 700: Site: November 21, 2017



Photo 701: Site: November 21, 2017



Photo 702: Site: November 21, 2017



Photo 703: December 12, 2017



Photo 704: December 12, 2017



Photo 705: December 12, 2017



Photo 706: December 12, 2017



Photo 707: December 12, 2017



Photo 708: December 12, 2017



Photo 709: December 12, 2017



Photo 710: December 12, 2017



Photo 711: December 12, 2017



Photo 712: December 12, 2017



Photo 713: December 12, 2017



Photo 714: December 12, 2017

Appendix III

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

UltraSystems Staff Fields of Expertise:

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

SLR Staff Fields of Expertise:

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

October 26, 2017:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

Tarik Hadj-Hamou (SLR)



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 10/26/17
Site Conditions: Clear, 70-90°F, 5-15 MPH winds	
SITE LOG	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood area from 6:45 to 7:45 a.m. and there were no landfill odors detected in the adjacent neighborhood. The slow lane on Balboa Boulevard at Woodley Avenue had liquid stain marks that appear to be leaking from packer trucks. There was a slight garbage odor when standing right next to the stain.</p> <p>Met with Mike Lindsay (UltraSystems) and Tarik Hadj-Hamou (SLR), signed in at the office, and had a brief conversation with Patti Costa and Ricky Dhupar to coordinate the after-monitoring meeting. The monitoring team then proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> • Sierra Highway north of the I-14 overpass had windblown litter on the roadway shoulders and under the overpass. Just north of the overpass was an 18-foot boat that had been illegally dumped on the roadway shoulder. This was observed on the 9-26-17 site monitoring. Illegal dumping of large cardboard boxes and other debris was observed on the roadway shoulders. • The neighborhood was monitored again between 8:45 and 9:15 AM and no landfill operations odors were detected. • The cattle guard drainage system at the landfill entrance gate was finished. The paving next to the drainage boxes was approximately six inches too high causing a potential traffic hazard. This elevation difference should be monitored to verify that it is fixed. • Site filling operation was starting at 9:05 AM in cells CC-4 Part 1 and CC-4 Part 2. Met with LADPW staff Gabriel Esparza, Mike Harmon, and Isaac Reyes and they joined us on the site monitoring. • A faint odor was detected near the west end of the CC-3A Closure Turf where the liquid transfer pipeline leak were observed on the September 26 monitoring. • The Old City North top deck liquids handling system with 16 Alder-type storage tanks was observed and functioning well. Piping for landfill liquids and surface water drainage handling systems was being stored on the top deck, along with gravel. • Compost mulch was being stockpiled on the top deck of Cell CC-3B for amending soil for Deck B and City/County top deck vegetation. There was a strong localized odor. • Compost mulch was observed being tilled into soils on the top deck of Cell CC-3A. • At 10:30 AM, Cell CC-4 Part 1 had three tippers working and was primarily being used by transfer trucks. Cell CC-4 Part 2 was working and was being used by packer trucks. • The HDPE drainage system around Cell CC-4 Part 2 had no pumps in place to drain surface water. • Four gabion landfill liquids recovery points were installed in Cell CC-4 Part 2. 	

Page 2 of 2, 10/26/17:

- New concrete drainage channels were being installed connecting the upper westside surface water drainage to the lower concrete channel.
- The terminal basin had a skimmer system being installed on the outlet risers. No underdrain system to drain sediment was observed.
- Vegetation was growing out of cracks in the top deck and on the sides of the terminal basin.
- The inlet channels into the terminal basin were clean and ready for winter rains.
- Soil sloughing on the main access road slope facing the terminal basin had more movement. This movement and any potential impacts on the main access road should be monitored during the winter season.
- The San Fernando Road retaining wall was being cleared of soil and rock against the fence and in front of the wall. The slope above the wall was graded to remove loose material and one oak tree was removed. The wall top drainage channel was cleaned and re-established.
- The inlet channels into the terminal basin were clean and ready for winter rains.
- Sediment basin CC-3B low point drain was not cleaned and was plugged.
- The PM-10 berm oak trees were doing well. No understory planting had occurred.
- Deck C sage mitigation area was doing well. Fall removal of non-natives was not yet done.
- Deck B sage mitigation was staked, the area cleared, and top soil spread and graded.
- All areas proposed to have Posi-Shell and Closure Turf were completed and being maintained.
- Basin A was cleared of sediment. The rock around the outlet risers not yet been cleaned and was filled with sediment. The HDPE header to Flare 3 around Basin A was modified and put on HDPE supports. In the slope area near the basin outlet, the steel bars driven into the ground may not hold if the slope soils slide. This could cause the whole support system to fail.
- Flare 11 equipment was being installed. Flares 9 and 10 were not running due to equipment tie-ins for Flare 11.
- Basin D outlet channel has the HDPE liner material torn, lifted, and could block stormwater flow. Debris and tumbleweed was observed in multiple areas and could block flow.
- A jute netting with seed applied by hydroseeding is being tested to establish vegetation on the County slopes in the sage mitigation area.

Flare Operating Conditions:

- Flare 1 - 1686°F, 3307 SCFM, -57.71" vacuum, 38.48" out, 30% CH₄, 98 ppm H₂S
- Flare 3 - 4000 SCFM (approximate-given to UEI by SCS staff)
- Flare 9 - shut down
- Flare 10 - shut down

The gas-to-energy plant was using 7574 SCFM of recovered landfill gas.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 10-26-2017 Thursday
Site Conditions: Clear, 70–92 °F, 2–14 mph, 18% RH	
SITE LOG	
<ol style="list-style-type: none"> 1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office and with Patti Costa and Ricky Dhupar (Republic). 2. Observed illegally dumped trash, debris and an abandoned boat along the shoulder of Sierra Highway. 3. No odors are present in adjacent neighborhood or school between 8:45 and 9:15. 4. New drainage system near landfill entrance has been completed. 5. Met with Gabriel Esparza, Mike Harmon and Isaac Reyes (LACDPW). 6. A faint condensate odor is present at base of Cell CC-3A closure turf City slope at 9:50 am. 7. Cell CC-3B is in good order, and is being used to stockpile compost. 8. Cell CC-4 Part 1 working area is operating with three tippers, and with ADC 50% covered with new trash at 10:30 AM. 9. Street sweepers are cleaning the haul roads. 10. Observed compost soil amendment materials being mixed with a disc harrow at Cell CC-3A top deck. 11. Cell CC-4 Part 2 working area is operating for packer trucks. 12. A new concrete water drainage channel has been installed above the west slope of Cell CC-4 Part 2. 13. A new gabion drainage system with four large blocks has been installed inside of Cell CC-4 Part 2. 14. A new water skimmer system is being installed at the terminal basin riser drains. 15. Retaining wall by landfill entrance has been repaired, and is now clear of soil with tree on slope removed, drainage channel behind wall cleared, and walkway in front of wall clear of soil. 16. Water trucks are applying water throughout site for dust control. 17. Low-flow drainage inlet at final berm is blocked with soil. 18. City Deck C sage mitigation area is in good condition, and is still in a dormant, slow-growth state do to the hot and dry summer months. 19. Three water misters are in operation above City Deck C to help control odors. 20. Traffic spotters are onsite to control traffic. 21. The oak trees in the PM-10 berm are growing well. 22. Flare 1 is operating at 3304 scfm, 1690 °F. Gas sample measured at 30 % Vol. CH₄, 1.6 % Vol. O₂, 98 ppm H₂S and 68 ppm CO. 23. Observed overall landfill operations from the observation deck, including excavation work for Cell CC-4 Part 3. 24. Sediment basin A is in good condition, with a new header pipe support system in place. 25. Flare 9 and Flare 10 are offline while Flare 11 connections are made. 26. The new Flare 11 is being installed. 27. Sediment basin B is in good condition. 28. Sediment basin D drainage channel still has uplifted cover material and tumbleweeds partially blocking the outlet. 	

Page: 2 of 2 10-26-2017



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

FURTHER REVIEW NEEDED

1. Remove abandoned boat, trash and debris along Sierra Highway.
2. Clear low-flow drainage inlet at final berm.
3. Clear sediment basin D drainage channel of liner material and tumbleweeds.

Signed: *Michael W. Lindsay*



SUNSHINE CANYON LANDFILL

MITIGATION MONITORING SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 13
Discipline: Civil – Geotechnical and Hydrology	Date: October 26, 2017
Site Conditions: Sunny and warm	
SITE LOG	
7:00 Met with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill, 8:10: Sign-up in main office.	
8:10 – 9:30 Initial inspection <ul style="list-style-type: none"> Observed waste display activities at Cell CC4 from above and truck traffic for leaky truck Drove around neighborhood for odors (not discussed herein as not this inspector purview) Monitored roads around landfill or illegal dumping (not discussed herein as not this inspector purview) 	
9:30- Met Gabriel Esparza, Mike Harmon, and Isaac Reyes of LADPW and conduct visit. Observed the following: <ul style="list-style-type: none"> Placement of waste in Cell CC4 Phase 1 and Phase 2 Erosion protection system Drainage systems (Basins, channels) Access Roads Closure Turf on slopes of Cell CC3 Wall on San Fernando Road Landfill for geotechnical and hydrological issues 	
<ul style="list-style-type: none"> Waste Placement in Cell CC4 Phase 1 <ul style="list-style-type: none"> Cell was accepting waste (Photo 1) 3 Tilters were in use Alternative cover was used as shown on west side of waste mass in the cell Waste Placement in Cell CC4 Phase 2 <ul style="list-style-type: none"> cell was accepting waste (Photo 2) 	
Erosion Protection <ul style="list-style-type: none"> All systems installed at site are in good shape Posi-shell applied to the slopes of Cell CC3 is holding out. we did not notice any new cracks in areas observed in June and September 2017 (Photo 3) 	
Drainage system <ul style="list-style-type: none"> New temporary unlined earthen basin above Terminal basin <ul style="list-style-type: none"> Basin is fully excavated and the spillway was cleared. Inlet of intake tower was uncovered. However it is our understanding that outlet pipe daylighting on the apron of the spillway is blocked and the that it is anticipated that flow will be over the spillway (Photo 4) Erosion gullies on earth fill between channels and the severe erosion along the walls of the shotcrete channel observed on September 12, 2017 have been fixed (Photo 5). deck of Cell CC3b 	



<ul style="list-style-type: none"> – a pipe has been installed to drain water off the deck (Photo 6) – there is no measure to control large amount of soil and from entering pipe to flow into the pipe – no protection on side were installed (e.g. sand bag wing walls, K-rails) and erosion could occur on sides • Basin A <ul style="list-style-type: none"> – Sediments accumulated in basin have been removed – the gas header is supported on pedestal made with V-notched pieces of HDPE pipe (Photo 7) – the gas header in the area near the toe of the slope that has in in past (see report dated 17 January 2017) is retained by few steel bars driven into the ground (Photo 8) which may not be sufficient in case of a subsequent slide – Downstream channel is used as access road with pipes under earth fill (Photo 9). The capacity of pipes to accept design flow should be checked and flow capacity restored if needed (removal of soil, additional pipes, ...) • Basin D <ul style="list-style-type: none"> – Clean • Basin B <ul style="list-style-type: none"> – Clean • Channel between Basin D and access road to Flare 9 and 10. <ul style="list-style-type: none"> – The geomembrane installed in the channel is totally loose at the connections with the corrugated pipe (Photo 10) – There were tumbleweeds and soil in channel • Terminal Basin <ul style="list-style-type: none"> – all sediments have been removed – Sukut was installing the three skimmers. They should be operational in 2 weeks (i.e. around November 15th) – there are plants growing through concrete cracks (Photo 11) • V-ditch on the west slope (remediation area) have been replaced (Photo 12) <ul style="list-style-type: none"> – A new shotcrete ditch has been installed on the access road on west side of Cell CC4 (Photo 13) • Cell CC4 Phase 2 <ul style="list-style-type: none"> – The cell is bordered on west and south by a lined basin with no outlet. It is our understanding from republic that the water will be pumped out. (Photo 14)
<p>Access roads.</p> <ul style="list-style-type: none"> • Main access roads • Some sloughing has occurred on the embankment of the new access road (Photo 15) near the Apex of the road. The sloughing can be noted from the entrance to the Terminal Basin.
<p>Closure Turf on slopes of CC3:</p> <ul style="list-style-type: none"> • a break-out that occurred at access road to the deck of cell CC3 in an area covered with Closure Turf has been repaired (Photo 16)
<p>Retaining wall on San Fernando Road:</p> <ul style="list-style-type: none"> • cleaning operation were on-going (Photo 17) <ul style="list-style-type: none"> – the sidewalk has been totally cleared of sloughed soil (Photo 18) – the drain at end of drainage swale has been cleared (Photo 19)
<p>Overall landfill inspection.</p> <ul style="list-style-type: none"> • no other geotechnical issues than that noted at access road were observed

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1:45-2:15 Close-out meeting with Republic Staff representative to discuss findings of visit
FURTHER REVIEW NEEDED
None
COMMENTS
<ul style="list-style-type: none">• Drain pipe on deck of Cell CC3b may need protection such as sand bag to direct water into pipe and minimize risk of erosion on sides• It was explained to the team how the water removed from ten lined basin at Cell CC4 Phase 2 was going to be managed – some of it will have been in contact with waste
Signed: 



Photo 1: Waste disposal in Cell CC4 Phase 1



Photo 2: Waste disposal in Cell CC4 Phase 2



Photo 3: Posi-shell on slope of Cell CC3b



Photo 4: Spillway and blocked pipe on apron at temporary earthen basin near terminal basin



Photo 5: Repaired erosion gullies at temporary earthen basin above Terminal Basin



Photo 6: Drain pipe on deck of Cell CC3b



Photo 7: HDPE supports for gas header at Basin A



Photo 8: Steel bars support for gas header at Basin A near toe of slope

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Photo 9: Partially obstructed channel downstream of basin A



Photo 10: Torn-up geomembrane, tumbleweeds, and soil in Channel between Basin B and D

PAGE 9 OF 13



Photo 11: Weeds in crack on shotcrete wall of Terminal Basin

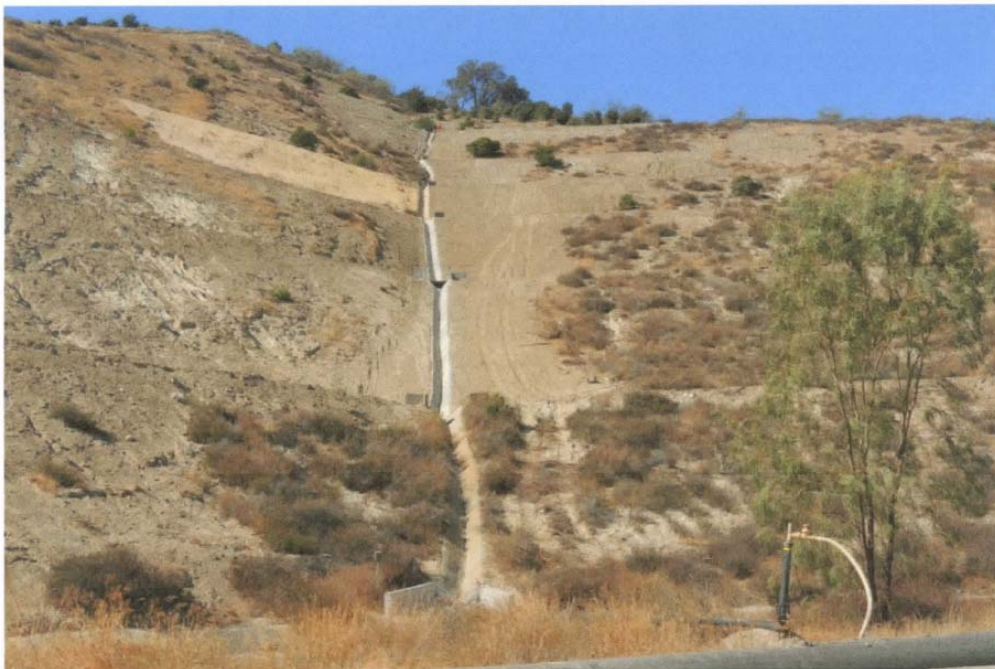


Photo 12: New V-ditch on slope of west slope remediation area



Photo 13: New V-ditch along access road bordering cell CC4 Phase 2



Photo 14: Lined water storage basin at Cell CC4 Phase 2



Photo 15: Sloughing on embankment of main access road near entrance of Terminal Basin



Photo 16: Repaired breakout on Closure Turf along access road to deck of Cell CC3b



Photo 17: Cleaning operations at wall on San Fernando Road



Photo 18: Cleaning operations at wall on San Fernando Road – Cleared sidewalk

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Photo 19: Cleaning operations at wall on San Fernando Road – Cleared drain intake at swale

November Site Visits

November 7, 2017:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 11/7/17
Site Conditions: Clear, 60-75°F, 0-15 MPH winds	
SITE LOG	
<p>Republic General Manager - Chris Coyle</p> <p>Detected a strong greenwaste odor on the northbound 405 at approximately 6:45 a.m. Drove to the North Hills Recycling facility and detected a strong greenwaste odor on Blucher near the facility. Drove the landfill's adjacent Granada Hills neighborhood area from 7:00 to 7:45 a.m. and did not detect any landfill odors. There was a slight greenwaste odor on Orozco Street across from the school. Met with Mike Lindsay (UltraSystems) and signed in, and had a brief conversation with Patti Costa to coordinate the after-monitoring meeting. We then proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> Sierra Highway north of the I-14 overpass had a couch, wood, cardboard, and other debris dumped on the roadway shoulder. The San Fernando Road retaining wall was cleared of soil and rock that was against the fence and in front of the wall. The slope above the wall was graded in order to remove loose material and one oak tree was removed. The wall top drainage channel was cleaned and re-established. The v-ditch drains were plugged with soil at the channel and the roadway curb. The channel will not drain until they are cleaned. A strong, localized condensate odor was detected at the sewer lift station carbon filter drum. The leachate treatment facility had well lift pump odorous cleaning debris dumped inside the concrete berm area. The terminal basin had the outlet risers modified and equipped with Faircloth floating skimmers. The risers had holes cut in the galvanized standpipe and covered with filter fabric to drain water saturated sediment. The modification was complete. There was standing water and sediment on the southern sides of the gabion wall that transverses the terminal basin. There was sediment in the terminal basin's outlet channel. The CC-3B basin had its low-flow outlet plugged with soil and debris. There was standing water at the basin's lower wall. The water was odorous. Deck C sage mitigation was doing well. No removal of non-natives or other maintenance was done. The PM-10 trees were doing well. No understory planting was done. No work was done on the Deck B sage mitigation since the last monitoring. New power poles and power lines were being installed on Deck B for the Flare 1 and possible other services. The drainage channel on the slope above the Flare 1 pad has had the supporting soil eroded away. The channel should be looked at and necessary maintenance repairs made. 	

Page 2 of 2, 11/7/17:

- Site working areas were in Cells CC-4A Part 1 and Part 2. No operational concerns were noted.
- The Closure-Turf and Posi-Shell areas were being maintained and no concerns were noted.
- Basin A had a large amount of standing water. The rock around the outlet risers appears to be blocking drainage.
- Additional jute netting was installed on the County sage mitigation slopes. These areas will be hydro-seeded.
- The construction activity on Flare 11 was completed and the flare was operating.
- The Basin D outlet channel had no maintenance performed since the last monitoring. The channel has the HDPE liner material torn and lifted, and it could block stormwater flow. Debris and tumbleweed was observed in multiple areas and they could also block flow.
- Basin B was free of sediment and was dry and ready for rain events.

Flare Operating Conditions:

- Flare 1 - 1678°F, 3341 SCFM, -57.71" vacuum, 36.38" out, 24% CH₄, 85 ppm H₂S
- Flare 3 - 1694°F, 3827 SCFM
- Flare 9 - 1661°F, 2218 SCFM, -63" vacuum, 38.1" out
- Flare 10 - shut down
- Flare 11 - 2338 SCFM

The gas-to-energy plant was using 7123 SCFM of recovered landfill gas, 43% CH₄, 1.2% O₂, 61 ppm H₂S. Total gas volume recovered was 18,847 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 11-07-2017 Tuesday
Site Conditions: Clear, 62–73 °F, 2–17 mph, 49% RH	
SITE LOG	
<ol style="list-style-type: none"> 1. Met with Jim Aidukas (UltraSystems), and checked into office and with Patti Costa (Republic). 2. Sierra Highway has an illegally dumped couch by the I-14 overpass. The abandoned boat along the shoulder has been removed. 3. A strong condensate odor is present at the sewer lift station carbon filter drum at 8:45 AM. 4. Retaining wall by landfill entrance has outlet curb drains clogged with soil. 5. Leachate treatment facility is in good order. 6. Terminal basin has had the new drainage skimmer system installed. 7. Standing water is present at the terminal basin gabion wall. 8. Ponding water is present at the final berm low-flow drainage area. 9. Low-flow drainage at the final berm area is blocked by soil. 10. Traffic spotters are onsite to control traffic. 11. Flare 1 is operating at 3333 scfm, 1683 °F. Gas sample measured at 24 % Vol. CH₄, 1.4 % Vol. O₂, 85 ppm H₂S and 52 ppm CO. Gas inlet temperature is at 134 °F. 12. New power poles and lines are being installed for Flare 1. 13. Observed overall landfill operations from the observation deck, including working face operations at Cell CC-4 Part 1 and Part 2. 14. Water trucks are applying water throughout site for dust control. 15. Standing water is present at sediment basin A by riser drains. 16. New jute netting is being installed on County sage mitigation area slopes as a testbed. 17. Flare 9 is operating at 2267 scfm, 1657 °F. Gas sample measured at 43 % Vol. CH₄, 1.2 % Vol. O₂, 61 ppm H₂S and over 500 ppm CO. Gas inlet temperature is at 142 °F. 18. Flare 10 is offline. 19. Sediment basin D drainage channel still has uplifted cover material and tumbleweeds partially blocking the outlet. 20. Sediment basin B is in good condition. 21. A distinct odor is present at Cell CC-3B at 11:35 AM. 22. A strong odor is present at the top deck of Cell CC-3A. 23. Cell CC-4 Part 1 working area is operating with three tippers. ADC is 60% covered with new trash at 12:10 PM. 24. Cell CC-4 Part 2 working area is operating for packer and moving-floor trucks. 25. Bird abatement measures are in force near Cell CC-4 Part 1. 26. Street sweepers are cleaning the haul roads. 27. Flare 3 is operating at 3750 scfm, 1691 °F. Gas sample measured at 44 % Vol. CH₄, 1.3 % Vol. O₂, 39 ppm H₂S and over 500 ppm CO. Gas inlet temperature is at 148 °F. 28. Met with Patti Costa, David Penoyer, Joshua Mills, Tuong-phu Ngo and Ricky Dhupar (Republic), and discussed our site monitoring observations. 	

Page: 2 of 2 11-07-2017



FURTHER REVIEW NEEDED

1. Remove dumped couch along Sierra Highway.
2. Eliminate condensate odor at sewer lift station.
3. Clear curb drains at retaining wall near landfill entrance.
4. Remove standing water at terminal basin gabion wall.
5. Remove ponding water at final berm low-flow drainage area.
6. Clear low-flow drainage inlet at final berm.
7. Remove standing water at sediment basin A riser drains.
8. Clear sediment basin D drainage channel of liner material and tumbleweeds.
9. Eliminate odors at Cell CC-3B.
10. Eliminate odors at top deck of Cell CC-3A.

Signed:

Michael W. Lindsay

November 21, 2017:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 11/21/17
Site Conditions: Clear, 60-90°F, 5-25 MPH winds	
SITE LOG	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood area from 6:30 to 7:15 a.m. and there were no landfill odors detected. The slow lane on Balboa Boulevard at Woodley Avenue had liquid stain marks that appear to be from leaking packer trucks. There was no garbage odors detected when standing near the stains. Met with Mike Lindsay (UltraSystems), signed in at the office, and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> • San Fernando Road from the landfill entrance south to the Old Road junction had windblown litter as well as an illegally dumped mattress. • Sierra Highway north of the I-14 overpass had windblown litter on the roadway shoulders and under the overpass. • A strong greenwaste odor was detected on Blucher Avenue near the North Hills Recycling facility. Smoldering greenwaste was being moved by equipment. <p>Met with Vu Truong (LACDPW) at the landfill and continued monitoring with him joining us.</p> <ul style="list-style-type: none"> • Site working areas were in Cell CC-4A Part 1 and Part 2. No operational concerns were observed. • The old City slopes were being graded with bulldozers. The blowing winds caused a significant amount of dust. No water was being applied. The mixing of amendments to soil on the top deck of Cell CC-3A caused a significant amount of blowing dust. Ceasing these operations during windy conditions should be considered. • The County top deck and City Cell CC-3B top deck had a significant amount of blowing dust. The used of a soil sealant should be considered in these areas. • Basin A was free of sediment but had stagnant water at the outlet risers. The gas collection system piping to Flare 3 had some areas along the top of the basin wall that looked unstable. • The future Flare 12 dirt pad was sprayed with a polymer-type dust suppressant. This was performing well. Areas between the flares need this polymer applied, rock or other methods to control dust. • The northern secondary access road was in good condition. • The northern perimeter gate has not been repaired and this access is not controlled. • Debris from removing Flare 8 and tree trunks and limbs from road construction is stockpiled on the old Flare 8 site pad. • Basin B was free of sediment and was dry and ready for rain events. 	

Page 2 of 2, 11/21/17:

- The Basin D outlet channel had no maintenance performed since the last monitoring. The channel has the HDPE liner material torn and lifted, and could block stormwater flow. Debris and tumbleweed was also observed in multiple areas and they could also block flow.
- Additional jute netting was installed on the County sage mitigation slopes.
- Deck C sage mitigation was doing well. No maintenance or non-native plant removal appears to have been done.
- The PM-10 berm trees were doing well. No understory planting was done. Dust was blowing over the trees and leaving the site during high wind gusts.
- No progress on Deck B sage mitigation was observed.
- The Closure Turf and Posi-Shell areas were being maintained and no areas of concern were observed.
- There was no maintenance performed on the CC-3B basin. The basin still had its low-flow outlet plugged with soil and debris. There was standing water at the basin's lower wall.

Flare Operating Conditions:

- Flare 1 - 1699°F, 2949 SCFM, -57.97" vacuum, 38.57" out, 32% CH₄, 95 ppm H₂S, 0.4% O₂.
The gas leak on the 2nd blower was fixed.
- Flare 3 - shut down
- Flare 9 - 1662°F, 2532 SCFM, -62.86" vacuum, 38.25" out
- Flare 10 - 1654°F, 2603 SCFM
- Flare 11 - 2894 SCFM

The gas-to-energy plant was using 94503 SCFM of recovered landfill gas, 47% CH₄, 1.0% O₂, 61 ppm H₂S. Total gas volume recovered was 20,426 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 11-21-2017 Tuesday
Site Conditions: Mostly clear, 63–89 °F, 3–14 mph, 18% RH	
SITE LOG	
<ol style="list-style-type: none"> 1. Met with Jim Aidukas (UltraSystems), and checked into office. 2. A strong green waste odor (eucalyptus) is present along Blucher Avenue at 7:40 AM. 3. San Fernando Road has an illegally-dumped mattress southeast of the railroad crossing. 4. Sierra Highway has wind-blown trash and debris by the I-14 overpass. 5. Met with Vu Truong (LACDPW). 6. Street sweepers are cleaning the haul roads. 7. Cell CC-4 Part 1 working area is in good order and operating with three tipplers. ADC is 40% covered with new trash at 9:45 AM. 8. Wind-blown dust clouds are present throughout site, with windspeed at 23.4 MPH and relative humidity at 16.4 %, measured at Cell CC-4 Part 2 at 10:10 AM. 9. Sediment basin A is in good working order. 10. Flare 9 is operating at 2509 scfm, 1659 °F. Gas sample measured at 45 % Vol. CH₄, 1.3 % Vol. O₂, 55 ppm H₂S and over 500 ppm CO. Gas inlet temperature is at 144 °F. 11. Flare 10 is operating at 2549 scfm, 1649 °F. Blowers 1, 2, 3 and 4 are in operation. 12. The new Flare 11 is in operation, including a new blower assembly on-site. 13. Secondary access road is in good condition. 14. Perimeter gate on the secondary access road by the old Flare 8 site is off of its hinges and damaged. 15. A wood and metal debris pile are present by the old Flare 8 site. 16. Sediment basin B is in good condition. 17. Traffic spotters are onsite to control traffic. 18. Sediment basin D drainage channel still has uplifted cover material and tumbleweeds partially blocking the outlet. 19. Flare 3 is offline. 20. Observed overall landfill operations from the Flare 3 area, including working face operations at Cell CC-4 Part 1 and Part 2. 21. Flare 1 is operating at 2940 scfm, 1679 °F. Gas sample measured at 32 % Vol. CH₄, 0.4 % Vol. O₂, 95 ppm H₂S and 78 ppm CO. Gas inlet temperature is at 126 °F. 22. City deck C sage mitigation area is in good overall condition. 23. Large dust clouds are passing over the PM-10 berm in a southeast direction at 11:45 AM. 24. Terminal basin is in good order. 25. Water trucks are applying water throughout site for dust control. 26. Low-flow drainage at the final berm area is still blocked by soil. 27. Ponding water is present at the final berm low-flow drainage area. 28. Met with Patti Costa, Chris Coyle, Joshua Mills, Tuong-phu Ngo and Ricky Dhupar (Republic), and discussed our site monitoring observations. 	

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FURTHER REVIEW NEEDED

1. Remove dumped mattress along San Fernando Road.
2. Remove wind-blown trash and debris along Sierra Highway.
3. Eliminate wind-blown dust clouds throughout site.
4. Repair perimeter gate on the secondary access road.
5. Remove the wood and metal debris pile by the old Flare 8 site.
6. Clear sediment basin D drainage channel of liner material and tumbleweeds at known location.
7. Remove ponding water at final berm low-flow drainage area.
8. Clear low-flow drainage inlet at final berm.

Signed: *Michael W. Lindsay*

December Site Visits

December 12, 2017:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

Tarik Hadj-Hamou (SLR)



**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 12/12/17
Site Conditions: Clear, 60-80°F, 5-15 MPH winds	
SITE LOG	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood area from 6:45 to 7:30 a.m. and there were no landfill odors detected. Met with Mike Lindsay (UltraSystems) and Tarik Hadj-Hamou (SLR), signed in, had a brief meeting with Patti Costa, and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> • The terminal basin was clear of sediment. Windblown litter and tumbleweed was observed along the eastside interior wall, against the gabion wall and against the northwest wall, and in the inlet channel culverts. Litter was observed against the fence along the top of Basin CC-3B. In late morning, litter crews were clearing the fence of litter. • The sloughing of soil on the main access road slope near the terminal basin inlet has increased and a utility pole is now leaning. This slope needs to be monitored by Republic's geotechnical engineers. • The landfill gate off the oil field road was unlocked. • The southern entrance gate south of the oil field was locked. • The leachate treatment facility had tumbleweed and litter inside and outside of the berm area and dead tree trunks, tumbleweed, and debris within 20 feet of the equipment. • There were strong condensate odors at the sewer connection pump and they also were strong at the block wall. Gusting winds were causing thick dust clouds to be over this whole area. • The frontage retaining wall and walkway was cleared of soil and rock. The v-ditch drains to the street were plugged with dirt. Debris and soil had fallen into the wall's v-ditch. • Trash, debris, and rubble were dumped on the shoulder of Sierra Highway north of the I-5 overpass. • The Basin CC-3B low flow outlet was plugged with soil and debris. • South-facing CC-3A and 3B slopes were covered with Closure Turf. CC-3A west facing slopes and areas above Cell C-4 Part 1 were covered with Posi-Shell. These areas were being maintained. • The top deck of CC-3A and other slopes not covered by Posi-Shell had top soil, wattles, and were hydroseeded. Rain for Rent water storage and irrigation systems were being installed. • Blowing dust was observed on the top decks and where equipment was moving on dirt roadways. • Cell C-4 Part 1 and C-4 Part 2 were accepting waste. • The Northern Perimeter access gate was repaired and locked. • The wood and metal debris at the old Flare 8 site was not removed. • The Basin D outlet channel had no maintenance performed since the last monitoring. The channel has the HDPE liner material torn and lifted, and could block stormwater flow. Debris and tumbleweed was also observed in multiple areas and they could also block flow. 	

Page 2 of 2, 12/12/17:

- Basin B was dry and clear of sediment. Windblown litter was observed in the native hillside vegetation.
- Jute netting that was hydroseeded covered approximately 40-45% of the slopes in the County sage mitigation area. The remaining slope area had deep erosion rills and these slopes need straw wattles or other erosion control.
- Basin A was dry and clear of sediment. The native vegetation hillsides had windblown litter. The outlet channel culverts were blocked by tumbleweed. The gas header piping to Flare 3 had some support pedestals move, which could cause an unstable condition.
- The Flare 3 compressor skid had vegetation growing under the skid.
- There was no progress on Deck B sage mitigation.
- Deck C sage mitigation was doing well. No maintenance or non-native plant removal appears to have been done.
- The PM-10 berm trees were doing well. No understory planting was done.

Flare Operating Conditions:

- Flare 1 - 1692°F, 2632 SCFM, -57.9" vacuum, 38.56" out, 36% CH₄, 65 ppm H₂S, 0.6% O₂
- Flare 3 - 1688°F, 2800 SCFM, 49% CH₄, 40 ppm H₂S, 1.0% O₂
- Flare 9 - shut down for burner repair
- Flare 10 - 1648°F, 2775 SCFM, -64" vacuum
- Flare 11 - 2708 SCFM

The gas-to-energy plant was using 9111 SCFM of recovered landfill gas, 45% CH₄, 1.3% O₂, 56 ppm H₂S. Total gas volume recovered was 20,026 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 12-12-2017 Tuesday
Site Conditions: Clear, 62–78 °F, 6–16 mph, 7% RH	
SITE LOG	
<ol style="list-style-type: none"> 1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office and with Patti Costa. 2. Terminal basin is in overall good condition, with some wind-blown trash and tumbleweeds accumulated on the northwest side. 3. Trash fence above terminal basin inlet is working well, holding back wind-blown trash. 4. Perimeter gate south of oilfield is closed and locked. 5. Perimeter gate above oilfield is open and unlocked. 6. No odors were detected at the leachate treatment facility at 9:50 AM. 7. Strong condensate odor is present at sewer lift station at 10:00 AM. 8. Wind-blown dust clouds are blowing across sewer lift station area at 10:00 AM. 9. Traffic spotters are onsite to control traffic. 10. Curb drains for the front retaining wall drainage are still clogged with soil. 11. Observed a new concrete pad in place (six-foot square) near sewer lift station. 12. Trash and debris are present along Sierra Highway by the I-14 overpass. 13. No odors are present in adjacent neighborhood and school at 10:45 AM. 14. Low-flow drainage at the final berm area is still blocked by soil. 15. Observed liquids pouring out of a Republic Stericycle-loaded truck at 11:08 AM. Both front and back trailer were leaking, causing roadway to be wet. 16. Observed Rain-for-Rent tank and pipes at top of Cell CC-3A for irrigation to adjacent slope with new straw wattles and hydroseeding. 17. Cell CC-4 Part 1 working area is operating well, with three tippers and multiple levels of trash fencing to collect wind-blown trash. ADC is 90% covered with new trash at 11:20 AM. 18. Water trucks are applying water throughout site for dust control. 19. Windspeed measured at 28.1 MPH maximum at 11:25 AM at top of Cell CC-3A. Windspeed average is 16.7 MPH. 20. Cell CC-4 Part 2 working area is in good order, with two tippers in operation. 21. Sediment basin B is in good condition, with some wind-blown trash at back of basin. 22. Secondary access road is in good condition. 23. Perimeter gate on the secondary access road has been repaired, and is closed and locked. 24. Flare 9 is offline due to burner problems, per gas-to-energy facility staff. 25. Flare 10 is operating at 2775 scfm, 1644 °F. Gas sample measured at 45 % Vol. CH₄, 1.3 % Vol. O₂, 56 ppm H₂S and over 500 ppm CO. Gas inlet temperature is at 134 °F. 26. The new Flare 11 is in operation, including a new blower assembly on-site. Blower numbers 1, 2, 3 and 4 are in operation. 27. Drainage channel for sediment basin D still has uplifted cover material and tumbleweeds partially blocking the outlet. 28. Sediment basin A is in good working order, with some wind-blown trash at back of basin. 	

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29. Flare 3 is operating at 2800 scfm, 1672 °F. Gas sample measured at 49 % Vol. CH₄, 1.0 % Vol. O₂, 40 ppm H₂S and over 500 ppm CO. Gas inlet temperature is at 110 °F.
30. Flare 1 is operating at 2610 scfm, 1685 °F. Gas sample measured at 36 % Vol. CH₄, 0.6 % Vol. O₂, 65 ppm H₂S and 142 ppm CO.
31. Street sweepers are cleaning the haul roads.
32. Met with Patti Costa, Chris Coyle, Joshua Mills and Tuong-phu Ngo (Republic), and discussed our site monitoring observations.

FURTHER REVIEW NEEDED

1. Ensure that the perimeter gate above the oilfield is closed and locked.
2. Eliminate condensate odor by sewer lift station.
3. Eliminate wind-blown dust clouds throughout site.
4. Clear curb drains for retaining wall drainage.
5. Remove wind-blown trash and debris along Sierra Highway.
6. Clear low-flow drainage inlet at final berm.
7. Prevent liquids from leaking out of Republic Stericycle-loaded trucks.
8. Clear sediment basin D drainage channel of liner material and tumbleweeds at known location.

Signed: *Michael W. Lindsay*

**SUNSHINE CANYON LANDFILL**MITIGATION MONITORING
SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 of 12
Discipline: Civil – Geotechnical and Hydrology	Date: December 12, 2017
Site Conditions: Sunny and warm	
SITE LOG	
7:00 Met with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill, 8:20: Sign-up in main office.	
8:10 – 13:00 Site inspection	
<ul style="list-style-type: none"> • Drove around neighborhood for odors (not discussed herein as not this inspector purview) • Monitored roads around landfill or illegal dumping (not discussed herein as not this inspector purview) • Placement of waste in Cell CC4 Phase 1 and Phase 2 • Erosion protection system • Drainage systems (Basins, channels) • Access Roads • Closure Turf on slopes of Cell CC3 • Wall on San Fernando Road • Landfill for geotechnical and hydrological issues 	
<ul style="list-style-type: none"> • Waste Placement in Cell CC4 Phase 1 <ul style="list-style-type: none"> – Cell was accepting waste (Photo 1) – 3 Tilters were in use • Waste Placement in Cell CC4 Phase 2 <ul style="list-style-type: none"> – cell was accepting waste (Photo 2) – 2 Tilters were in use 	
Erosion Protection <ul style="list-style-type: none"> • All systems installed at site are in good shape • Posi-shell applied to the slopes of Cell CC3 is holding out. we did not notice any new cracks • Wattles have been deployed on numerous slopes at the landfill such as the east facing slopes of Cell CC3A (Photo 3) 	
Drainage system <ul style="list-style-type: none"> • New temporary unlined earthen basin above Terminal basin <ul style="list-style-type: none"> – Basin is fully excavated and the spillway was cleared. Inlet of intake low flow pipe that daylight on the concrete spillway was covered and therefore useless (Photo 4) • Basin A <ul style="list-style-type: none"> – Sediments accumulated in basin have been removed – The gas header is supported on pedestal made with V-notched pieces of HDPE pipe. Some of these pedestals have moved slightly out of alignment probably because of expansion/contraction of the pipe leading to ‘snaking’ (Photo 5). The gas head could end up being unstable – Outlets from Basin A are blocked by tumbleweeds (Photo 6) – Downstream channel is still used as access road with pipes under earth fill (Photo 7). The 	

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<p>capacity of pipes to accept design flow should be checked and flow capacity restored if needed (removal of soil, additional pipes, ..)</p> <ul style="list-style-type: none"> • Basin D <ul style="list-style-type: none"> – Clean • Basin B <ul style="list-style-type: none"> – Clean • Channel between Basin D and access road to Flare 9 and 10. <ul style="list-style-type: none"> – The geomembrane installed in the channel is totally loose at the connections with the corrugated pipe (Photo 8) – There are tumbleweeds and soil in channel • Terminal Basin <ul style="list-style-type: none"> – all sediments have been removed – The three skimmers are installed (Photo 9) – Some drainage holes have been cut in the corrugated rises and protected with patches of geocomposite (Photo 10) – One of the two culverts into the Terminal Basin is filled with tumbleweed and some trash (Photo 11) • Geomembrane on slope of old City Landfill is damaged, probably from wind and should be repaired (Photo 12) to reduce the risk of erosion in the case of a rainstorm
<p>Access roads.</p> <ul style="list-style-type: none"> • Main access roads • Some sloughing has occurred on the embankment of the new access road (Photo 13) near the Apex of the road. The sloughing can be noted from the entrance to the Terminal Basin. • sloughed earth has pushed the utility pole out of verticality (Photo 14)
<p>Closure Turf on slopes of CC3:</p> <ul style="list-style-type: none"> • The leachate break-out that occurred at access road to the deck of cell CC3 in an area covered with Closure Turf has been repaired
<p>Retaining wall on San Fernando Road:</p> <ul style="list-style-type: none"> • cleaning operations are finished <ul style="list-style-type: none"> – the sidewalk has been totally cleared of sloughed soil • Drains from top of wall concrete channel daylighting a sheet level have not been cleared and are still plugged with soil (Photo 15) • Soil was already accumulating in drainage swale on top of wall (Photo 16)
<p>Overall landfill inspection.</p> <ul style="list-style-type: none"> • no other geotechnical issues than that noted at access road were observed during the visit
<p>13:10- 14:00 Close-out meeting with Republic Staff representative (Patti Costa, Joshua Mills, Tuong-Phu Ngo, and Chris Coyle) to discuss findings of visit</p>
<p>FURTHER REVIEW NEEDED</p>
<p>None</p>



COMMENTS

- Based on observations from previous years, a large amount of sediments may end up in the Terminal Basin. These sediments are saturated and must dry out before removal in late spring/early summer. Drying will occur from evaporation and raining at the bottom. It appears that there are not many openings at the basin bottom surface level in the risers for the water to seep out. The reviewer recommends that Republic discusses the matter with their geotechnical engineering consultant.
- Because soil will accumulate in swale on top of San Fernando wall (Photo 16), it is recommended to install trash guards at the inlet of the drains and then clean the swale regularly especially after a large rainstorm and before the rainy season.

Signed:

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Photo 3: Wattles on East facing Slope of Cell CC3

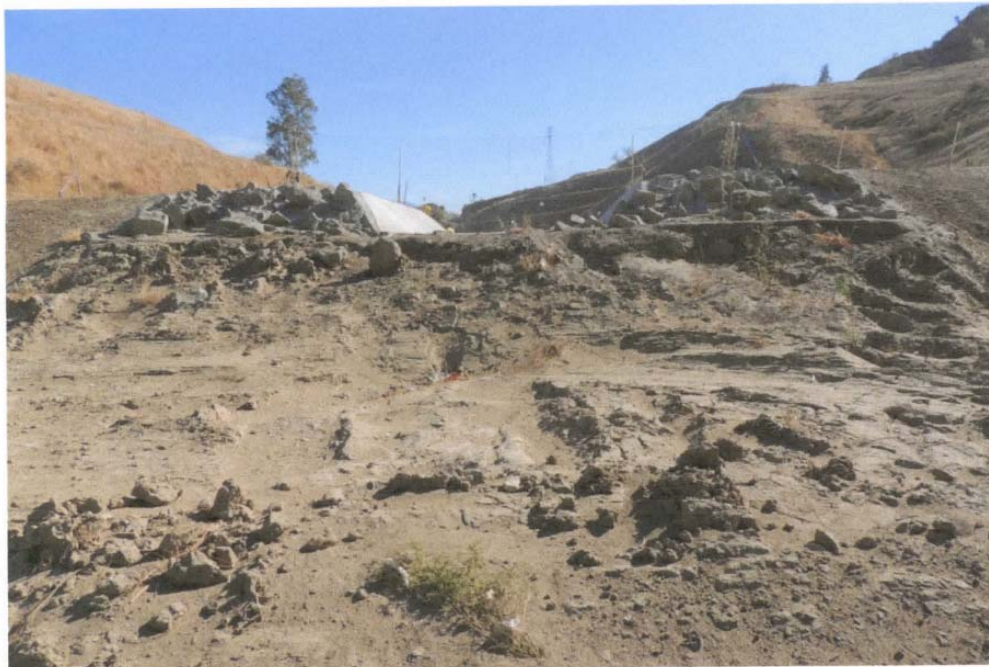


Photo 4: Inlet to Low Flow Pipe Out Temporary Earthen Basin Near Terminal Basin is Not Open



Photo 5: Potentially Unstable HDPE Supports for Gas Header at Basin A



Photo 6: Outlets for Basin A Coletanche by Tumbleweed



Photo 7: Partially Obstructed Channel Downstream of Basin A



Photo 8: Torn-up Geomembrane, Tumbleweeds, and Soil in Channel between Basin B and D



Photo 9: Skimmers in Terminal Basin



Photo 10: Drain Holes with Geocomposite Patch on Riser at Terminal Basin



Photo 11: Culvert into Terminal Basin plugged with Tumbleweed



Photo 12: Geomembrane Slip-side Needing Repair on Old City Landfill Slope

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Photo 13: Sloughing on embankment of main access road near entrance of Terminal Basin



Photo 14: Tiller Utility Pole near entrance of Terminal Basin

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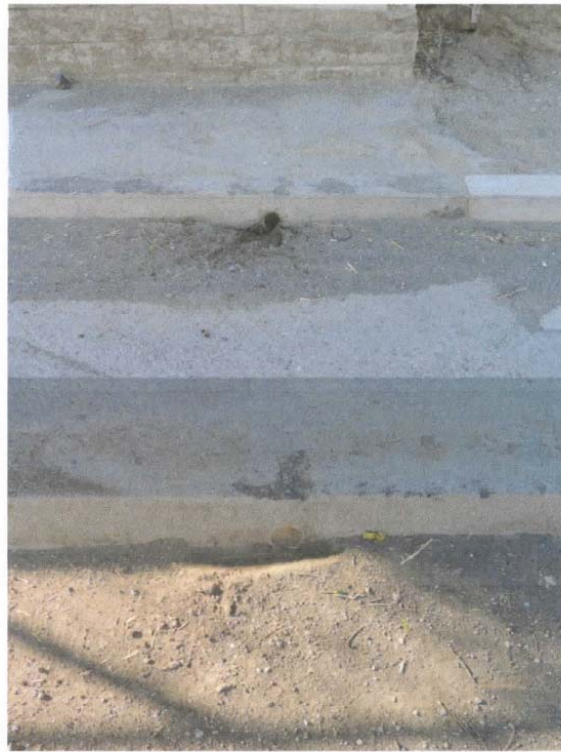


Photo 15: Plugged Street Level Drains from the wall along San Fernando road



Photo 16: Soil Accumulating in Drainage Ditch on Top of San Fernando Wall

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Appendix IV

Meeting Logs


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

October 26, 2017

Post-monitoring meeting with Patti Costa, Ricky Dhupar and Josh Mills, Twong-Phu Ngo (Republic).

Attendees:

Gabriel Esparza, LACDPW
Mike Harmon, LACDPW
Isaac Reyes, LACDPW
James Aidukas, UltraSystems
Tarik Hadj-Hamou, UltraSystems
Mike Lindsay, UltraSystems



Discussion:

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

- a. Tarik Hadj-Hamou stated that he observed that maintenance work had been performed on the San Fernando Road's retaining wall. Soil and rock against the wall's fence was removed, as was loose material from the hillside slope and soil in front of the wall.
 - Patti Costa acknowledged the statement.
- b. Tarik Hadj-Hamou stated that the terminal basin's water skimmer project appears to be a good design approach to reduce the amount of sediment leaving the site.
 - Patti Costa acknowledged the statement and stated that the project should be completed within two weeks.
- c. Tarik Hadj-Hamou stated that there was soil sloughing and slope movement on the main access road slope that faces the terminal basin's inlet, and that this slope should be monitored during the winter rains for stability.
 - Patti Costa acknowledged the statement.
- d. Tarik Hadj-Hamou stated that the low-flow outlet drain for the CC-3B basin is blocked with soil and may not drain.
 - Patti Costa stated that they have been trying to keep it clear, but that it plugs from sediment during a rain event. They are going to rely on the high-flow spillway for draining the CC-3B basin during a rainstorm.
- e. Tarik Hadj-Hamou stated that the sediment Basin A outlet drainage pipes under a temporary access road should be checked for adequate capacity to handle a design flow rainstorm discharge.
 - Patti Costa acknowledged the statement and stated that they will look at it.
- f. Tarik Hadj-Hamou stated that the gas header to Flare 3 along the top of the southern Basin A wall should be checked to verify that the steel bars will support the header and keep it from falling into the basin if a slide occurs like it did last year during the rain.
 - Patti Costa stated that she would have their geotechnical consultant look at it.

- g. Tarik Hadj-Hamou stated that the sediment basin D outlet drainage channel is blocked by liner material, tumbleweeds, and debris.
 - Patti Costa stated that they will take a look at the drainage conditions and take necessary action.
- h. James Aidukas stated that no odors were detected in adjacent neighborhood or around the school this morning between 6:45 and 7:45 a.m.
 - Patti Costa acknowledged the statement.
- i. James Aidukas stated that the slow lane on Balboa Boulevard at Woodley Avenue had liquid stain marks that appear to be leaking from packer trucks, and that there is a slight garbage odor when standing right next to the stain.
 - Patti Costa acknowledged the statement.
- j. James Aidukas stated that a faint odor was detected near the west end of the CC-3A Closure Turf where the liquid transfer pipeline leak was observed on the September 26th monitoring.
 - Patti Costa acknowledged the statement and stated that operations personnel will be notified.
- k. James Aidukas stated that there was an odor coming off the slope at 10:45 a.m. near gas well 630, which is along the City haul road.
 - Patti Costa acknowledged the statement and stated that they will investigate the cause.
- l. James Aidukas stated that odors were detected coming from the City Cell CC-3A top deck.
 - Patti Costa stated that the odor is from the stockpiled compost.
 - Josh Mills stated that the compost will be used for 57 acres of revegetation projects.
- m. James Aidukas stated that no odors were detected at the sewer lift station and that the rubber mats were sealing the vaults' access panels.
 - Patti Costa acknowledged the statement.
- n. James Aidukas stated that UEI observed Flare 9 and Flare 10 were offline over two hours due to construction tie-in activities of Flare 11.
 - Patti Costa acknowledged the statement.
- o. Tarik Hadj-Hamou asked how rainwater was going to be removed from the Cell CC-4 Part 2 HDPE drainage system.
 - Patti Costa stated that they will pump it out, and that the pump system will be installed soon.
- p. Gabriel Esparza asked when filling began in Cell CC-4 Part 2.
 - Patti Costa stated that they started filling it yesterday.
- q. Gabriel Esparza asked if ADC was being used in Cell CC-4 Part 2.
 - Patti Costa stated that they are using ADC in this cell.
- r. Gabriel Esparza stated that a large-diameter liquid handling manifold pipe at the entrance to the Cell CC-3B basin had a HDPE cut pipe supporting this liquid handling pipe. The concrete support that was installed to support the pipe had sunk.
 - Josh Mills stated that they will look into what happened and if the HDPE support is temporary.

- s. James Aidukas stated that litter was observed along San Fernando Road south of the entrance near the Old Road junction.
 - o Patti Costa stated that they will pick up the litter.
- t. Mike Harmon asked if the revegetation test beds were still active.
 - o Patti Costa stated that they are not active. A report was being prepared by their consulting arborist.
- u. Mike Harmon asked when the vegetation plan report will be available.
 - o Ricky Dhupar stated that it should be out around November 1, 2017.
- v. James Aidukas stated that the access road from City Deck B to above the administration buildings has no down-comer slope drainage.
 - o Patti Costa stated that they will have GLA evaluate the need for any additional drainage channels or downcomers.
- w. James Aidukas stated that jute netting was observed being placed on the County sage mitigation slopes near the area where the drainage channel was replaced.
 - o Patti Costa stated that they are doing a test in this area. The jute netting will be hydroseeded and no irrigation will be used.

The meeting was then adjourned.


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

November 7, 2017

Post-monitoring meeting with Patti Costa, Ricky Dhupar, David Penoyer, Joshua Mills and Tuong-phu Ngo (Republic).

Attendees:

James Aidukas, UltraSystems
Mike Lindsay, UltraSystems



Discussion:

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

- a. James Aidukas stated that the total volume of landfill gas being recovered today was 18,847 SCFM.
 - o David Penoyer acknowledged the statement.
- b. James Aidukas asked why Flare 10 was shut down.
 - o David Penoyer stated that the hydraulic actuator that is used to direct gas to the flare was being serviced.
- c. James Aidukas stated that we observed new power lines being installed on City Deck B.
 - o Patti Costa stated that the Flare 1 power supply lines were being upgraded.
- d. James Aidukas stated that the air blower intake filter system being used on Flare 11 appears to be an improvement to those used on Flare 9 and 10.
 - o David Penoyer stated that it is a new and improved design, and that it will also be implemented at Flare 9 and Flare 10 after field testing of Flare 11.
- e. James Aidukas stated that we checked the quality of the recovered gas going to Flares 9, 10, and 11 and it had a carbon monoxide reading over 500 ppm. The handheld meter we used does not always read CO accurately and a field test should be done.
 - o David Penoyer stated that he will have it checked out. The next day, Patti Costa emailed us to inform us that a Draeger tube test showed 50 ppm.
- f. James Aidukas stated that greenwaste odors were detected on Orozco Street across from the Van Gogh School this morning at 7:00 AM, and that a strong green waste odor was detected on Blucher Avenue at 6:45 AM coming from the North Hills Recycling Facility.
 - o David Penoyer acknowledged the statement.
- g. James Aidukas stated that we observed that the maintenance on the San Fernando Road wall and slope was completed and the drainage channel on top of the wall was cleaned and re-established. However, the drainage channel drains and the roadway curb drain outlets were still plugged with soil and the wall channel will not drain.
 - o Patti Costa stated that they will have the drains cleared.

- h. James Aidukas stated that we observed that the illegally dumped boat on Sierra Highway has been removed. Sierra Highway north of the I-14 overpass had a couch, wood, cardboard, and other debris dumped on the roadway shoulder.
 - Patti Costa acknowledged the statement and stated that operations personnel will be advised of the illegal dumping.
- i. James Aidukas stated that we observed sediment in the terminal basin's outlet channel.
 - Patti Costa stated that operations will investigate the cause and clean the channel.
- j. James Aidukas stated that the CC-3B basin had its low-flow outlet plugged with soil and debris, and that there was standing water at the basin's lower wall. The water was odorous.
 - Patti Costa stated that they will have operations personnel pump out the water and schedule maintenance crews to fix the drainage.
- k. James Aidukas stated that the landfill gas collection mainline to Flare 3 has unstable support points on the south basin A wall and has bowed out in some areas.
 - David Penoyer stated that they will look at the piping and take appropriate corrective action.
- l. James Aidukas stated that Basin A had a large amount of standing water. The rock around the outlet risers appears to be blocking drainage.
 - Patti Costa stated that they will pump out the water. Operations will be notified of the riser blockage.
- m. James Aidukas stated that we observed that additional jute netting was placed on the County sage mitigation area slopes and asked when they will be hydroseeded.
 - Patti Costa stated that they were already hydroseeded with the County-approved seed mix.
- n. Mike Lindsay stated that we detected a strong condensate odor at the sewer lift station near the carbon filter drum.
 - Ricky Dhupar stated that they will check the maintenance schedule for changing out the filter.
- o. Mike Lindsay stated that the sediment basin D drainage channel is still blocked with liner material and tumbleweeds.
 - Patti Costa stated that they will have the debris cleaned out and evaluate what to do with the liner material.

The meeting was then adjourned.

November 21, 2017

Post-monitoring meeting with Patti Costa, Ricky Dhupar, Chris Coyle, Joshua Mills and Tuong-phu Ngo (Republic).

Attendees:

Vu Truong (LACDPW)
James Aidukas, UltraSystems
Mike Lindsay, UltraSystems



Discussion:

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

- a. James Aidukas stated that no odors were present in adjacent neighborhood today.
 - Chris Coyle acknowledged the statement.
- b. James Aidukas stated that we observed packer trucks moving to a staging area to clean their back seals in Cell CC-4A Part 2. This was not previously observed in prior monitoring visits.
 - Patti Costa acknowledged the statement.
- c. James Aidukas stated that a mattress has been dumped on San Fernando Road just southeast of the railroad crossing. Windblown litter was also noticed in the area.
 - Chris Coyle stated that they will have it picked up.
- d. James Aidukas stated that a strong greenwaste odor was detected on Blucher Avenue near the North Hills Recycling facility. Smoldering greenwaste was being moved by equipment.
 - Chris Coyle acknowledged the statement.
- e. James Aidukas stated that Sierra Highway was clear of debris and illegal dumping.
 - Chris Coyle acknowledged the statement.
- f. James Aidukas stated that high winds and low humidity were causing large dust clouds throughout site, and the use of water trucks was not effective in controlling the blowing dust. The use of a soil sealant should be considered.
 - Chris Coyle acknowledged the statement.
- g. James Aidukas stated that the polymer soil sealant used on the future Flare 12 dirt site pad should be considered for use on the soil near the air blower intake filters on all of the flares. Blowing dust was observed in these areas.
 - Chris Coyle acknowledged the statement.
- h. James Aidukas stated that the north perimeter gate has not been repaired and this access to the site is not controlled.
 - Chris Coyle stated that they will have it repaired.
- i. James Aidukas stated that debris from removing Flare 8 and tree trunks and limbs from road construction is stockpiled on the old Flare 8 site pad. Also wood and other debris is being stockpiled near the flat areas above Basin D.
 - Chris Coyle acknowledged the statement.

- j. James Aidukas stated that we observed that additional jute netting was installed on the County sage mitigation slopes and asked if they were hydroseeded.
 - Patti Costa stated that they were hydroseeded with the County-approved seed.
- k. James Aidukas stated that the Basin D outlet channel had no maintenance performed since the last monitoring. The channel has the HDPE liner material torn and lifted, which could block stormwater flow. Debris and tumbleweed was also observed in multiple areas where they could also block flow.
 - Patti Costa stated that she will notify operations personnel and request that the channel be cleaned and the liner material fixed.
- l. James Aidukas stated that the gas header line along the top of the basin A southern riser had a coupling in place, and asked if it was a breakaway safety fitting.
 - Joshua Mills stated that it is a thermal weld fitting, and that the permanent gas collection piping system is part of the buttress approval process that they are now reviewing. Once the buttress is constructed, the gas collection piping will be placed in engineered fill.
- m. James Aidukas stated that there was no maintenance performed on the CC-3B basin since the last monitoring visit. The basin still had its low-flow outlet plugged with soil and debris. There was standing water at the basin's lower wall.
 - Joshua Mills stated that they will look into remedying this condition.
- n. James Aidukas stated that the terminal basin high-sediment mark from the 2016 monitoring visit on its walls seem to be at a height equal to the top of the new risers. He asked if there was enough headspace to prevent unskimmed water and sediment from flowing into the outlet channel.
 - Patti Costa stated that they will talk with GLA about this concern.
- o. Mike Lindsay stated that large dust clouds were rolling over the PM-10 berm.
 - Chris Coyle stated that they will take action with Sukut regarding water treatment and dust control.
- p. Vu Truong asked if the revegetation hydroseeding will begin shortly.
 - Joshua Mills stated that it will begin November 27th.
- q. Vu Truong asked what the plan was for the filling sequence at Cell CC-4.
 - Joshua Mills stated that they are increasing fill at Part 2 to catch up to the schedule in order to help with logistics, haul roads, etc.
 - Patti Costa stated that the operations plan sometimes has to adapt to circumstances and can end up different than the fill sequence plan. They will re-visit the fill sequence plan, and make sure everything is done to the County's satisfaction and to the Republic's needs.


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

December 12, 2017

Post-monitoring meeting with Patti Costa, Chris Coyle, Joshua Mills and Tuong-phu Ngo (Republic).

Attendees:

James Aidukas, UltraSystems
Tarik Hadj-Hamou, UltraSystems
Mike Lindsay, UltraSystems



Discussion:

We had a post-monitoring meeting with Republic Services and provided them with our monitoring observations. Also provided was a summary of outstanding mitigation monitoring activities. This was provided to update new personnel in the site environmental compliance positions (copy attached.) We asked questions regarding site activities and mitigation status, and received comments and updates as follows:

- a. Mike Lindsay stated that the sediment Basin D drainage channel is still blocked with liner material and tumbleweeds.
 - o Patti Costa stated that they will have maintenance personnel take appropriate corrective action.
- b. Mike Lindsay stated that the low-flow drain at Basin CC-3B is still blocked with soil and debris.
 - o Chris Coyle stated that they will look into correcting it.
- c. Mike Lindsay stated that the San Fernando Road retaining wall v-ditch had the curb drains plugged with soil.
 - o Chris Coyle stated that they will have Sukut Construction clear the drains.
- d. Mike Lindsay stated that the Basin A outlet riser drainage rock is filled with sediment and is not able to drain until it fills with water to the overflow.
 - o Patti Costa stated that they will have it cleaned out again.
- e. James Aidukas asked what the sage mitigation revegetation schedule was for City Decks A, B, C and the County sage slopes.
 - o Patti Costa stated that the mitigation measures do not require them to complete the work by any specific date, and that the work will be done as it becomes feasible.
- f. James Aidukas asked if the Oak and Big Cone Fir tree reports showing the number of trees removed and replaced will be available in the 2017 year-end report.
 - o Patti Costa stated that the new reports are now available, and that the biologists are going through the process of totaling the number of trees removed and replaced.
- g. James Aidukas asked what the status was of the City Oak tree PM-10 berm understory planting.
 - o Patti Costa stated that a plan will have to be developed for the understory planting.

- h. James Aidukas asked what was the status of the Chatsworth wetlands mitigation project.
 - Tuong-phu Ngo stated that they just had a meeting regarding Chatsworth, and that things are moving forward on the environmental document.
- i. James Aidukas asked if a report regarding landfill gas quantities being flared and options for its use will be given in the 2017 year-end report.
 - Joshua Mills stated that Republic is working with Sunshine Gas Producers, and that they are considering a high-BTU facility with gas sales to Southern California Gas Company.
- j. James Aidukas asked if there was a plan and schedule to replace the perimeter survey monuments that were removed for site activities and Edison pole construction.
 - Patti Costa stated that monument replacement is part of the Exhibit A revised application, currently being reviewed by the County.
- k. Tarik Hadj-Hamou stated that the terminal basin riser drains had small holes near their base covered with filter fabric to drain liquid from accumulated sediment. He questioned if the sediment could be adequately drained by these holes. He asked if the site's engineering consultant had reviewed the design.
 - Patti Costa stated that they will talk with GLA about this.
- l. Tarik Hadj-Hamou stated that the main access road slope near the terminal basin inlet had soil sloughing, and the slope and road stability could be a concern.
 - Patti Costa stated that they will have GLA look at this.
- m. Mike Lindsay stated that there was a strong and persistent condensate odor detected at the sewer lift station.
 - Tuong-phu Ngo stated that they are currently installing a solid piping system to eliminate these intermittent odor sources, and that they will look for an interim solution to the odor problem, in addition to using the water buffalos and water misters.
- n. Mike Lindsay stated that liquids were pouring out of a Republic Stericycle truck onto the access road. Plastic wrap was being used to retain the liquid in the truck, but it was not successful.
 - Patti Costa stated that they will investigate the incident and water wash the main access road.
- o. Mike Lindsay stated that wind-blown trash was observed in the native hillside vegetation at sediment Basins A and B.
 - Patti Costa stated that they were catching-up with multi-day wind events.
- p. James Aidukas stated that the landfill gate off the oil field road was unlocked and open.
 - Patti Costa stated that they will have the gate closed and locked.
- q. James Aidukas stated that a new, updated evacuation plan should be posted.
 - Patti Costa stated that the updated evacuation plan is already part of the latest Hazardous Materials Business Plan.

The meeting was then adjourned.