

**Sunshine Canyon Landfill  
Independent Monitor  
Quarterly Site Monitoring Status Report  
January 1, 2017 – March 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:*

April 26, 2017

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**UltraSystems**  
environmental | management | planning

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### **CERTIFICATION STATEMENT**

April 26, 2017

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated April 26, 2017 is the First Quarterly Report for 2017, issued by UltraSystems. This report covers the monitoring period from January 1, 2017 through March 31, 2016 and is prepared for the City of Los Angeles Department of City Planning and the County of Los Angeles Department of Regional Planning.

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

Signed,

James T. Aidukas

Project Manager

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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-a through I-e

Appendix II – Photo Location Map and Relevant Site Photos

Appendix III – Quarterly Site Visits

Attendees by Date and Mitigation Monitoring Site Reports

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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 January 1, 2017 to March 31, 2017. It includes:

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

## Site Visits During the Quarter

Five site visits were performed by UltraSystems during the January through March 2017 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on January 17, 2017; January 31, 2017; February 23, 2017; March 9, 2017; and March 23, 2017. The previously discussed conditions and/or mitigation measures were tracked by each specialist who visited, and observations were documented. Site conditions were noted to be: Compliant, Non-Compliant, or Further Review Needed. If a Condition was found to be Non-Compliant or observed as having Further Review Needed, a reference was made to an appendix which details what was observed by the monitor.

## Definition of Terms

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

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

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

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

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

## Status Summary

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

### Compliant

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

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

### **Non-Compliant**

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

### **Further Review Needed**

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

#### **Q-B.2.c (City)**

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

#### **Geology-1.07 (County)**

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

#### **Geology-1.11 (County)**

*Grading allows for ancillary facilities outside of the landfill footprint.*

#### **Biota-4.29 (County)**

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

#### **Biota-4.30 (County)**

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

#### **Biota-4.33 (County)**

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

**Biota-4.34 (County)**

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

**Current Status/Comments** – A buttress design to support CC-4A Part 3 that was submitted to the County Department of Public Works in the 4th Quarter and was under review for approval in the 1st Quarter. This buttress is outside of the prior-approved landfill footprint and requires the removal of native vegetation. Republic stated that they have performed biological surveys and submitted reports to the required agencies. These reports have not been reviewed by the monitor. Due to the bird nesting season, no vegetation or soil removal should be started in this area until after August 1st.

Select areas in Phase II-C and Phase IV-3 on the County top deck were receiving waste in addition to Cell CC-3A and 3B. All these areas were using ADC. Access roads were realigned and modified to access the disposal operation areas and to contend with the wet weather. All roadways were temporary, wet-weather roads, using recycled concrete, rock and asphalt.

Cell CC-4A Part 1 was under construction. Rain events hampered the completion.

**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** – The development of Cell CC-4 Part 1 and the use of the County top deck Phase II-C and IV-3 areas required an access road realignment and a new disposal road on the eastern side of the County top deck area. Recycled asphalt and aggregate was used for the road. However, after major rain events, portions of the road needed to be repaired with soil. During dry and high wind conditions, blowing dust was observed coming from the County top deck disposal area access roads.

**Q-C.5 (City)**

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

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

**Q-C.10.c (City)**

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

**Odor/Landfill Gas - 7.07 (County)**

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

**Gas - 52 (County)**

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

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

**Current Status/Comments** – In mid-January, the gas-to-energy plant was shut down for repairs due to an electrical short. The landfill gas recovered and flared was composed of 49.9% methane and 2.42% oxygen. Flare 1 – 1738 SCFM; Flare 3 – approximately 2000 SCFM; Flare 9 – shut down; Flare 10 – 4988 SCFM.

At the end of January, the gas-to-energy plant was operating at 100% energy production using 8760 SCFM of recovered landfill gas, 39.9% methane and 5.18% oxygen. Flare 1 – not monitored; Flare 3 – not monitored; Flare 9 – 3887 SCFM; Flare 10 – shut down.

In mid-February, the gas-to-energy plant was operating at 100% energy production using 8538 SCFM of recovered landfill gas, 49.9% methane and 2.3% oxygen. Flare 1 – 2160 SCFM; Flare 3 – not monitored; Flare 9 – 3652 SCFM; Flare 10 – shut down.

In early March, the gas-to-energy plant was operating using 7401 SCFM, 46.4% methane and 2.54% oxygen. Flare 1 – 2180 SCFM; Flare 3 – not monitored; Flare 9 – 2466 SCFM; Flare 10 – 2510 SCFM.

In late March, the gas-to-energy plant was operating at 100% energy production using 8636 SCFM of recovered landfill gas, 50.9% methane and 1.91% oxygen. Flare 1 – shut down; Flare 3 – not monitored; Flare 9 – shut down; Flare 10 – 4384 SCFM.

Planning for expanding the renewable energy facilities should begin when the quantity and quality of gas being flared can support the installation of a new facility or an expansion of the existing facility. The typical time required for planning, funding and permitting a renewable energy facility is four years, or more.

#### **T-4 (City)**

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

*a. immediate access fire plan [now]*

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

#### **Fire Service - 12.03 (County)**

*The permittee shall maintain onsite fire response capabilities, construct access road, provide water tanks, water mains, fire hydrants and fire flows and perform brush clearance to the satisfaction of the County Forester and Fire Warden. The landfill will comply with all applicable County codes and ordinances which delineated the requirements for fire access, water mains, fire flows and fire*



*hydrants, specifically defined by the County Fire Department. New construction water tanks, water mains and fire hydrants will be completed to meet the fire flow requirements of the Fire Department.*

**Current Status/Comments** – In the 4th Quarter, a paved secondary access road was constructed from the Flare 11 site pad that connects to the ridgeline fire roads down to Coltrane Road at the I-5 Freeway.

In the 1st Quarter, the paved roadway to the landfill's ridgeline access road was fully functional. The fire road to Coltrane Road had deep ruts and will require grading by the Fire Department. The rainwater control and erosion system performed well. Erosion was minimal and the hydroseeded slopes had vegetation starting to grow.

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.

**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 CC-4 Part 3 cell buttress. In the 4th Quarter, grading plans were submitted to the County Department of Public Works for approval. These plans are currently under review. The only grading occurring in the 1st Quarter was for the development of Cell CC-4 Part 1 and the removal of stockpiled soil for waste cover. This was 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** – During the 1st Quarter, alternatives to hydroseeding on interim and inactive slopes and decks for slope stability and dust control were being used due to the 2016 and earlier drought conditions. Jute and plastic netting was being used on slopes. No hydroseeding of landfill slopes or decks was done in 2016.

In mid-January, site surface water control wattles and ditches adjacent to the office facilities had only minor erosion from the recent rain events. Cell CC-3B slopes without wattles and unlined V-ditches had significant erosion. CC-4 Part 1 had minor erosion gullies in the operations layer.

In late January, slopes with straw wattles adequately controlled erosion. Where straw wattles were not used, deep gullies were observed. Wattles were completely loaded with silt in some areas and may not continue to be effective in controlling erosion. Posi-Shell was observed being applied to a test area on CC-3A slopes facing Cell CC-4 Part 1.

In mid-February, the general condition of the slopes in Cell CC-3A and CC-3B were heavily impacted by the heavy recent rainstorms. Drainage ribbons were seen on most waste slopes with exposed trash observed. Repairs to the slopes were slow due to the wet slope conditions. The inactive County slopes had deep cut erosion gullies in the soil stockpile slope areas. The old City landfill slopes had minor areas of erosion. Posi-Shell along the access road to the Cell CC-3A top deck performed well during the rains. Posi-Shell above the CC-4 Part 1 lined area had areas that were undercut from the runoff from the recent heavy rain events. Cell CC-4 Part 1 operations layer had erosion gullies. The operations layer was in the process of being repaired. The underlying geosynthetics were not affected.

In early March, a large area of the west-facing slope of CC-3A was covered with Posi-Shell. No new drainage control was installed to handle the increase in rainwater flow rate that may occur from the use of Posi-Shell. Cell CC-4 Part 1 was having repairs done to the liner system.

Throughout the 1st Quarter, soil sealant was not being used during high wind periods to control dust. On high wind days, blowing dust was observed when wind gusts occurred.

#### **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, old oil well steel casings in the area north of the new office site had been gradually lowered. The soil around them had not yet reached their final elevation. Final lowering of the well casings and permanent abandonment should be done after final grades are reached.

An additional old abandoned oil well was observed adjacent to the new secondary access road. This well should be re-abandoned when the other two wells are re-abandoned. 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 survey PVC pipe markers were 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 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 mid-January, there were no landfill odors detected around the school, nor the immediate adjacent neighborhood. A faint background odor was detected at: Balboa and Woodley at 6:50 a.m.; end of Constable at 7:00 a.m.; Timber Ridge at Canyon Ridge at 7:10 a.m.; Constable and Canyon Ridge at 7:15 a.m.; and Balboa and Orozco at 7:20 a.m. All but the odor at Timber Ridge dissipated by 8:50 a.m. At 9:30 a.m., strong liquids odors were detected coming from the Cell CC-3A and CC-3B area. Also, a Cesar R. Trucking truck and dump bed-type trailer was parked near the scales, and the monitors detected an odorous load. A second Cesar R. Trucking truck and trailer was observed dumping an odorous load at Cell CC-3B. A liquids-type odor was detected coming from the top of the CC-3A slope. Landfill drilling liquids were being stored in an open pond and vacuum-pumped away into a truck. This appeared to be the odor source detected in Cell CC-4 and on the Old City

Deck C. Cell CC-3B had Buffalo Monsoon water misters in operation that were controlling the operating face odors and keeping them localized to the area.

In late January, a faint to distinct landfill liquids-type odor was detected at the following locations: Balboa and Knollwood at 6:45; Balboa and Woodley at 7:00; Westbury and Balboa at 7:15; Jimeno and Nanette at 7:20; Orozco and Titian at 7:30; El Oro and Resnick at 7:55; Nugent and Westbury at 8:05; Westbury and Jolette at 8:10; and Orozco and Sesnon at 8:20. The cause of the odor in these locations could not be identified.

In mid-February, there was a small area on Balboa between Timber Ridge and the I-5 at approximately 8:15 a.m. where distinct landfill liquids odor was detected. Well drilling was observed on the CC-3A top deck. Landfill liquids were being collected in an open-air pit for vacuum truck removal. No vapor recovery system was observed. Strong liquid odors were detected adjacent to and away from the area due to the liquids in the open pit.

In early March, from 6:50 to 8:00 a.m., there was a faint waste liquids odor in the air that came and went with wind gusts from the north. Well drilling was observed on the County south top deck north of the top deck of CC-3A. Liquid odors were detected on the top deck from the drilling operation. A second well drilling rig was observed north west of the first drill rig. This operation had a strong localized gas odor. These odors did not carry far. The Pure Carb Vessel in the leachate treatment facility was venting to the atmosphere, and liquids-type odors could be detected at the terminal basin.

In late March, there were faint odors at the end of Constable that came and went from the north with approximately 15 MPH wind gust at 7:35 a.m. At 8:00, there were faint odors at Timber Ridge and Mission Tierra that came and went with wind gusts from the north. At 8:10, a strong liquids odor was detected on San Fernando Road at the southern entrance block wall. At 8:25, the leachate treatment facility had a Buffalo Monsoon water mister operating with odorant. At 8:40 the graywater handling area had wind gusts of 10 to 15 MPH coming from the north, and strong condensate odors were coming from the sewer lift pump vault and were wafting onto San Fernando Road. Republic took immediate action to seal the lift pump vault. A strong liquids odor was detected on the top deck of CC-3A coming from a well drilling rig below, which was drilling on a CC-3A slope bench. A second well drilling rig in the County Phase II working area had a localized gas odor. There was a flare exhaust odor detected between Flare 10 and the Sunshine Gas Producers' flare at 11:30 a.m. The cause could not be determined.

#### **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.

During the 1st 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. Cell CC-4 Part 1 had a drainage system to a low point sump.

#### **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 having final cover should be available for review. Documents showing current filled elevations should also be available onsite for review and use. These conditions were not monitored.

#### **M-4.3.1(40) (City)**

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

#### **M-4.3.1(45) (City)**



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

#### **Surface Water 2.14 (County)**

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

**Current Status/Comments** – The erosion control plan should be available onsite for review. This plan should be a living document that keeps up with construction activities.

#### **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 the 1st Quarter, the slopes that were void of vegetation had straw wattles placed on them to control erosion. Rock gabions were constructed on the Old City South landfill access road, in the westside drainage channel, and across the inlet and within the Terminal Basin to slow down the flow of water and drop out sediment. The erosion and sediment control systems performed as designed and managed the rainwater and sediment. The erosion on the slopes was minimized due to the straw wattles.

In mid-January, there was a significant amount of sediment behind each gabion in the westside drainage channel along the main access road. Sediment from the Old City North slopes and Cell CC-3B slopes filled the temporary dirt basin below Cell CC-3B with sediment, blocking gravity drainage into the Terminal Basin. A pump was being used to drain the basin. Basin B had rainwater ponding at the outlet risers. Sediment was seen in approximately 40% of the basin. Basin A had a significant amount of sediment and standing water. The outlet risers were not draining the basin. There was soil that sloughed into the basin from the adjacent graded hillside. The outlet channel 12-inch corrugated pipes were blocked by trash and sediment. The Terminal Basin had a significant amount of sediment and standing water. There was minimal drainage out of the basin. There was approximately five feet of freeboard to the top of the outlet risers.

In late January, the monitors observed a significant amount of sediment in Basin A with soil sloughing from the prior adjacent Edison pole grading. The outlet risers were not draining rainwater and there was a large area of ponding rainwater. The outlet channel was blocked with sediment and trash. The native hillside had wind-blown trash. The westside channel inlet was blocked with tumbleweed. Basin D was observed and was free of sediment and ponding water. Basin B had no ponding water and a minimal amount of sediment. The temporary dirt basin below Cell CC-3B was filled with dirt and was not draining. A pump was being used to drain it. The dirt slopes on the eastside of the basin adjacent to the concrete outlet channels had significant uncontrolled erosion. The Terminal Basin had a significant amount of sediment. The outlet risers were significantly covered with sediment and there was water ponding. There was minimal water being released.

In mid-February, due to the extremely heavy rainfall, the wattle slope erosion controls were not able to handle the high flows of water and sediment loading. Drainage ribbons were observed on most of the slopes with exposed trash observed. There was a significant amount of trash and sediment in the temporary basin below Cell CC-3B. The basin was filled with soil to the spillway level. The terminal basin had standing water and a significant amount of sediment around the outlet risers. There was approximately two feet of free board to the top of the risers. There was minimal water flow leaving the basin, and there was sediment observed in the outlet channel. Basin B had a minimal amount of sediment and standing water. Soil slid down from the hillside in the far eastern area of the basin. There was trash in the basin's sediment. Basin D was clean and dry. Basin A had standing water. There was sediment around the rock filter for the outlet risers. Soil from the Edison pole construction slid into the basin. The adjacent hillside had an active spring flowing water down a slope and cut ribbons into the hillside. The basin outlet channel was blocked and had approximately two feet of standing water in the channel.

In early March, Basin D was observed to be dry and free of sediment. Basin A had standing water near the outlet risers and a significant amount of sediment. The Basin A outlet channel was blocked by a construction road and had ponding water. The cut hillsides south of Basin A had significant sloughing of soil into the basin. There was a significant amount of sediment in the terminal basin. The outlet risers were covered with trash and were significantly blocked with sediment. Sediment was observed in the outlet channel of the terminal basin.

In late March, the temporary basin below Cell CC3B had ponding water being pumped and sediment being removed. The prior-noted trash in the basin had been removed. The terminal basin had additional sediment since the last site monitoring, with surface water ponding around the outlet risers. The risers were covered with trash and significantly blocked by sediment, restricting current capacity to handle rainwater. Portions of the basin had sediment moved into piles to drain the water from the sediment. Removal of sediment was in progress in the terminal basin. Basin B had sediment with minor amounts of ponding water. The native hillside had minimal wind-blown litter. Basin D was dry and had no sediment from the rains. Basin A had standing water and the risers appeared to be blocked by sediment, with minimal drainage occurring. The outlet channel blockage had been cleared. The southern graded slopes had soil slough into the basin from the rainwater runoff.

**M-4.3.1(46) (City)**

*A preventive maintenance program would be implemented by the project proponent, including inspection of facility equipment, systems, and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater. This*

*program applies to the onsite drainage ditches; rip-rap; berms and dikes; dust control; silt fences; diversion grading; and pavement surfaces. Each system and piece of stationary equipment would be inspected monthly. Procedures for inspection would vary, due to the piece of equipment or system. However, the major elements of the inspection program would include checking for cracks or structural failures, inspecting parts or pieces of equipment nonfunctioning, checking for the degradation or deterioration of operating units, and investigating the need for cleaning or emptying units. A summary report of these monitoring results and the corrective actions taken will be disseminated in each newsletter with a more detailed report on the web site and in the annual report.*

## **Surface Water 2.15 (County)**

### *Surface Water Preventive Maintenance Program*

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

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

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

In mid-January, the retaining wall on San Fernando Road had soil slough from the hillside and tree roots, and sloughed soil was pushing out the fence in some areas and loading the top surface of the wall. The wall's top surface drainage channel was blocked.

In late January, the gabions in the westside drainage channel to the terminal basin were completely loaded with soil. Some were being removed by landfill operations personal along with the soil retained. The corrugated HDPE downcomer drainage pipe above the main access road near the terminal basin came apart, and runoff caused deep erosion gullies. The retaining wall on San Fernando Road had more soil sloughed from the hillside, and was horizontally loading the fence in more places. Additional rain could cause more sloughing and possible wall or fence failure.

In mid-February, the washout of the westside drainage channel asphalt and sidewall that was observed on February 13th was repaired with concrete. The retaining wall on San Fernando Road had a substantial amount of soil slough down from the hillside. The fence was topped in three places with soil and rock. There was no top-of-the-wall drainage. Soil had risen in front of the wall and was encroaching into the right traffic lane.

In early March, horizontal movement and cracking of the westside drainage concrete channel sidewalls, and lifting and cracking of the concrete floor near the County sage mitigation area was observed. The drainage pipe across from the terminal basin on the City south slope had no downcomer pipe.

In late March, the retaining wall on San Fernando Road had additional soil slough down from the hillside since the previous monitoring. There were additional soils and rock topping the fence in multiple areas.

#### **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 mid-January, City Deck C sage mitigation was doing well and greening-up from the rains and cooler temperatures. The PM-10 oak trees were also showing new growth.

In late January, the County sage mitigation slopes had deep erosion ruts from uncontrolled rainwater. No new growth was observed.

In mid-February, the City Deck C sage mitigation was greening up with the cooler and wet winter. City Decks A and B native vegetation was also greening up.

In early March, deep rill erosion was observed on the County sage mitigation slopes and adjacent slope areas. City Decks A and B native vegetation were responding well to the rain and cool temperatures. City Deck C sage mitigation was doing well with new plants growing.

In late March, City Deck C sage mitigation was doing well with vegetation flowering.

Throughout the 1st Quarter, no sage mitigation activity was performed in the County sage area.

#### **M-4.4.2/69 (City)**

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

**Current Status/Comments** – In the 1st Quarter, the City Attorney, City DWP, City Recreation and Parks, and Republic were finalizing an agreement to use the Chatsworth Reservoir as a wetland mitigation site. The agreement, once finalized, will need DWP Board and City Council approval. Republic is currently preparing an addendum to the MND.

#### **M-4.9.3(110) (City)**

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

**Current Status/Comments** – In early March, Sierra Highway near the I-14 overpass had a shopping cart, couch and debris dumped on the shoulder of the highway.

The City had removed the dirt and illegally dumped waste that had been on the roadway at San Fernando Road at the I-5 overpass. More dirt was illegally dumped on the shoulder, and waste was dumped under the overpass behind the overpass fencing. This is outside of Republic's clean-up area.

#### **M-4.9.4(125) (City)**

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

**Current Status/Comments** – Throughout the 1st Quarter of 2017, the south perimeter oil field gate was observed to be locked.

#### **M-4.19.2(191) (City)**

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

#### **Ecological Significance 62 (County)**

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

**Current Status/Comments** – Throughout the 1st Quarter of 2017, a Republic paleontological consultant was not needed on site.

## Summary of Requested Documents

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

- a) Current Fill Sequence Plan.
- b) A plan showing areas inactive for 180 days or longer with records tracking fill areas and interim reclamation and revegetation, including the timing of proposed work, as well as a plan showing current and projected areas to be within ten feet of the limits of fill.
- c) Maps showing areas that are at final elevation and bench ditches that will connect to drainage ditches to protect against natural surface runoff.
- d) The current erosion control plans should be available for agency and monitor review.
- e) Site drainage plans, including surface and 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 First 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**  
(10-01-2016 through 12-31-2016)

Line #	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2016																First Quarter 2017																						
					10/1/2016	Status*	Further Review Needed/Comments**	Resolved*	11/1/2016	Status*	Further Review Needed/Comments**	Resolved*	11/29/2016	Status*	Further Review Needed/Comments**	Resolved*	12/1/2016	Status*	Further Review Needed/Comments**	Resolved*	1/1/2017	Status*	Further Review Needed/Comments**	Resolved*	1/31/2017	Status*	Further Review Needed/Comments**	Resolved*	2/23/2017	Status*	Further Review Needed/Comments**	Resolved*	3/9/2017	Status*	Further Review Needed/Comments**	Resolved*	3/23/2017	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			
9	Q - B.2.c.		Ancillary Uses and Facilities	ongoing	✓	C	I-o	✓	C	I-p	✓	C	I-q	✓	C	I-r	✓	FRN	I-a	✓	FRN	I-b	✓	FRN	I-c	✓	FRN	I-d	✓	FRN	I-e	✓	FRN	I-e	✓	FRN	I-e	✓	FRN	I-e			
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			
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			
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			
17	Q - C.3.h.		Surfacing of Access Roads	ongoing	✓	C	NONE	✓	FRN	I-p	✓	C	NONE	R	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
18	Q - C.5.		Graffiti Removal and Deterrence	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE		✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
19	Q - C.10.c.		Evaluation of Beneficial Gas Usage	June yearly	✓	C	I-o	✓	C	I-p	✓	C	I-q	✓	C	I-r	✓	C	I-a	✓	C	I-b	✓	C	I-c	✓	C	I-d	✓	C	I-d	✓	C	I-d	✓	C	I-e	✓	C	I-e			
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-o	✓	FRN	I-p	✓	FRN	I-q	✓	FRN	I-r	✓	FRN	I-a	✓	FRN	I-b	✓	FRN	I-c	✓	FRN	I-d	✓	FRN	I-d	✓	FRN	I-d	✓	FRN	I-e	✓	FRN	I-e			
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			

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28	T - 6		Satisfactory Street Lighting	status	/				/				/				/				/				/				/				/							
29																																								
30	M - 4.1.1	7	Reabandonment Procedures	status	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
31	M - 4.1.4	11	Post-5.0 Earthquake Analysis	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
32	M - 4.2.12	27	Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
33	M - 4.2.12		Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
34	M - 4.2.12	28	Site Erosion-Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
35	M - 4.2.12		Site Erosion-Cell Height	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
36	M - 4.2.12		Site Erosion-Sealant	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
37	M - 4.2.13	29	LFG Control Measures	ongoing	/		I-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-c		/		I-d		/		I-e	
38	M - 4.2.13	30	Operational Odor Control Techniques	ongoing	/		I-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-c		/		I-d		/		I-e	
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-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-c		/		I-d		/		I-e	
41	M - 4.2.13	33	Odor Control Measures	ongoing	✓	C	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
42	M - 4.2.13	34	Odor/LFG Monitoring	ongoing	/		I-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-c		/		I-d		/		I-e	
43			Periodic LFG Monitoring		/		I-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-c		/		I-d		/		I-e	
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-q						✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
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	C		✓	FRN	C		✓	FRN	I-q		✓	FRN	I-n		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-d										
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	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e						
86	M - 4.1.1	3	Unsuitable Material Removal/Buffer Zones	ongoing																																									
87	M - 4.1.1	4	Grading Outside of Landfill Footprint	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e						
88	M - 4.1.1	5	Grading Activity Compliance	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e						
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		/	NA	NONE		
93	M - 4.1.5	12	Geologic Hazards - Liquefaction	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e						
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		✓	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		✓	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	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
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	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
106	M - 4.18	178	Landfill Elevation Exceedance	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
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-o						✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e	
114	M - 4.3.1	38	Permanent/Temporary Ditches	ongoing	✓	C	I-o						✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e	
115	M - 4.3.1	39	Drainage Protection	ongoing	✓	C	I-o						✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e	
116	M - 4.3.1	40	SWRCB Permit Coverage	ongoing	✓	C	I-o						✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e	
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-o		✓	FRN	I-p						✓	FRN	I-r	R	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
120	M - 4.3.1	44	Final Landfill Cover	ongoing																																				
121	M - 4.3.1	45	Erosion Control Plan	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q						✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
122	M - 4.3.1	46	Preventive Maintenance Program	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
123	M - 4.3.2	49	Interception of Groundwater Seepage	ongoing																																				
124	M - 4.3.2	50	LCRS/Leachate Monitoring	ongoing																																				
125	M - 4.3.2	51	LCRS Monitoring	ongoing																																				
126																																								
127	Biologist																																							

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

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## Sunshine Canyon Landfill City Mitigation Monitoring Summary (10-01-2016 through 12-31-2016)

[illegible]

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(10-01-2016 through 12-31-2016)

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					10/1/2016	Status*	Further Review Needed/Comments**	Resolved*	11/1/2016	Status*	Further Review Needed/Comments**	Resolved*	11/29/2016	Status*	Further Review Needed/Comments**	Resolved*	12/14/2016	Status*	Further Review Needed/Comments**	Resolved*	1/17/2017	Status*	Further Review Needed/Comments**	Resolved*	1/31/2017	Status*	Further Review Needed/Comments**	Resolved*	2/23/2017	Status*	Further Review Needed/Comments**	Resolved*	3/9/2017	Status*	Further Review Needed/Comments**	Resolved*			
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				
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				
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				
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-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e
200	M - 4.9.4	123	Personal Protective Equipment	ongoing																																			
201	M - 4.9.4	125	Site Access/Fencing	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e
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				
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				
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				
210	M - 4.19.1	185	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE				
211	M - 4.19.1	186	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE				
212																																							
213	Paleontologist																																						
214																																							
215																																							

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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-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e	

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(01-01-2017 through 03-31-2017)**

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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
5	Amendment 45.N - 3	45N	Daily Cover Procedure	ongoing	✓	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-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-e
7	Amendment 45.N - 4.c	45N	Odor Patrol Program	ongoing	/		I-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-e
8	Amendment 45.N - 4.d	45N	Landfill Gas Mitigation Plan	ongoing	/		I-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-e
9	Amendment 45.N - 5	45N	Dust and Odor Reports	ongoing	/		I-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-e
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
15	Revegetation - 44.F	44.F	Revegetation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
16	Fugitive Dust - 45.B	45.B	Working Face Areas	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
17	Fugitive Dust - 45.F	45.F	Inactive Areas Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c
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
19	Litter Control - 46.A -.D	46A-D	Litter Control Program	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-d
20	Gas - 52	52	Landfill Gas Collection System	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-e
21	Traffic - 57	57	Traffic Improvements	status	✓	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
23	Traffic - 61	61	Traffic Minimization	ongoing	✓	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
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
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-o		✓	FRN	I-p		✓	FRN	I-q	R	✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b	
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	
51	BIOTA - 4.07		Buffer Zone Maintenance-Vegetation	ongoing	✓	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	
53	BIOTA - 4.47		Cleaning of Equipment	ongoing	✓	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	
56	BIOTA - 4.50		Vector Activity Monitoring	ongoing	✓	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-p		✓	C	NONE		✓	C	NONE		✓	FRN	I-b		✓	C	NONE	
58	Air Quality - 6.04		Usage of Cut Material for Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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	

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65	Air Quality - 6.11		Alternative Fuel Refuse Collection/Transfer Trucks	status																																			
66	Air Quality - 6.11		Alternative Fuel Vehicle Report Submission	status																																			
67	Air Quality - 6.11		Heavy-duty, Alternative Fuel Off-Road Equipment Pilot Program	status																																			
68	Air Quality - 6.11		Non-Diesel, Alternative Fuel Vehicles-Transfer/Collection Trucks	status																																			
69	Air Quality - 6.11		Non-Diesel, Alternative Fuel Vehicles Truck Trips	status																																			
70	Air Quality - 6.11		Clean Fuel Demonstration Program	status																																			
71	Air Quality - 6.11		Compliance Evaluation	status																																			
72	Odor/Landfill Gas – 7.01		Landfill Gas Escape Prevention	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
73	Odor/Landfill Gas – 7.02		Landfill Gas Collection System	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
74	Odor/Landfill Gas – 7.04		Gas Collection/Flare System Risk Mitigation	ongoing																																			
75	Odor/Landfill Gas – 7.05		Wellhead Awareness	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
76	Odor/Landfill Gas – 7.06		Odor Control Measures	ongoing	✓	C	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	R	✓	FRN	I-d		✓	FRN	I-e
77	Odor/Landfill Gas – 7.07		Gas Recovery and Sale	status	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e
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		✓	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		✓	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		✓	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		✓	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		✓	C	NONE
91	Visual – 10.11		Periodic Litter Pickup	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
92	Visual – 10.11		Litter Control-Additional Measures	ongoing																																			
93	Visual – 10.12		Discharge Control/Litter Recovery	status																																			
94	Water Conserv. - 11.01		Water Conservation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
95	Recycling - 14.01		On-site Waste Diversion/Recycling	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
96	Recycling - 14.03		Tonnage Disposal Determination	info	/			/			/			/			/			/			/			/			/			/			/				

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

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148	Visual – 10.02		Final Fill Elevations	ongoing															✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		
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-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e
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-o		✓	FRN	I-p					✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
164	Surface Water - 2.11		Surface Water Quality-Collection/Monitoring	ongoing																																			
165	Surface Water - 2.12		Permanent/Temporary Drainage Facilities	ongoing	✓	C	NONE						✓	C	NONE		✓	C	NONE		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e
166	Surface Water - 2.13		Permanent/Temporary Drainage Facilities	ongoing																																			
167	Surface Water - 2.14		Erosion Control Plan	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e
168	Groundwater - 3.03		Interception of Groundwater Seepage	ongoing																																			
169	Groundwater - 3.06		Monitoring Wells	ongoing																																			
170																																							
171	Biologist																																						
172																																							
173																																							
174	Revegetation - 44	44	Revegetation/Cover Requirements	ongoing																																			
175	Revegetation - 44.A	44.A	Temporary Hydroseed Vegetation	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e
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-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e
181	Geology - 1.14		Personnel Retention for Monitoring Soil Erosion	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e
182	Groundwater - 3.11		Irrigation/Revegetation Management- Personnel Retention	ongoing																																			

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183	BIOTA – 4.10		Oak Tree Permit	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
184	BIOTA – 4.11		Oak Tree Mitigation Plan	ongoing	✓	C	NONE		✓	C	NONE		✓	C	I-q		✓	C	NONE		✓	C	NONE		✓	C	I-c		✓	C	NONE		✓	C	NONE		✓	C	NONE	
185	BIOTA – 4.13		Oak Tree Mitigation Counting	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
186	BIOTA – 4.20		Poultry Wire Screen	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
187	BIOTA – 4.24		Drip Irrigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
188	BIOTA – 4.27		Coastal Sage Scrub Mitigation Plan	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q	R	✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
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	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d					
202	BIOTA – 4.43		Replacement Riparian Habitat	status									✓	FRN	I-q						✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
203	Air Quality - 6.02		Dust Control	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e	
204	Visual – 10.06		Upper Ridge Planting/Revegetation	ongoing																																				
205	Visual – 10.07		Tree Planting Around Perimeter	ongoing																																				
206	Visual – 10.08		Cover/Revegetation Requirements	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e	
207	Visual – 10.08		Solid Waste Disposal Procedures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
208	Visual – 10.08		Final Cut Slope Steepness	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
209	Visual – 10.08		Final Fill Slopes-Reclamation/Revegetation	status																																				
210	Visual – 10.08		Revegetation Requirements	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
211	Visual – 10.09		Final Cover Composition Requirements	ongoing																																				
212	Visual – 10.10		Buffer Zone Maintenance	ongoing																																				
213	Water Conservation - 11.02		Plant Species	ongoing																																				
214	Fire Service - 12.01		Brush Clearance Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
215																																								

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216	Air Quality & Noise Specialist																																
217																																	
218																																	
219	Fugitive Dust - 45.F	45.F	Fugitive Dust Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
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		
221	Fugitive Dust - 45.N	45.N	Report Submission-Dust/Odor	every quarter																													
222	Air Quality Monitoring - 81	81	Air Quality Monitoring-Tests	ongoing																													
223																																	
224																																	
225	Air Quality - 6.01		Fugitive Dust Aversion	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
226	Air Quality - 6.01		Working Face Requirements	ongoing	✓	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		
228	Air Quality - 6.01		Soil Stockpile Requirements	ongoing	✓	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		
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		
232	Air Quality - 6.01		Access Roads-Paving	ongoing	✓	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		
234	Air Quality - 6.01		Water Tanks/Piping Maintenance	ongoing	✓	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		
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		
244	Admin Rpts/ Pgms-17.16		Air Quality Monitoring-Corrective Action Plan	ongoing	/				/				/				/				/				/				/				
245																																	
246																																	
247	Hydrology, Hazardous Waste / Risk of Upset																																
248																																	

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**Sunshine Canyon Landfill County Mitigation Monitoring Summary  
(01-01-2017 through 03-31-2017)**

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2016												First Quarter 2017															
					10/1/2016	Status*	Further Review Needed/Comments**	Resolved*	11/1/2016	Status*	Further Review Needed/Comments**	Resolved*	11/29/2016	Status*	Further Review Needed/Comments**	Resolved*	12/1/2016	Status*	Further Review Needed/Comments**	Resolved*	1/1/2017	Status*	Further Review Needed/Comments**	Resolved*	2/23/2017	Status*	Further Review Needed/Comments**	Resolved*	3/9/2017	Status*	Further Review Needed/Comments**	Resolved*
249																																
250	IMP - Part IV.E	IMP4	Load Inspection-Random Manual	ongoing																												
251																																
252	Groundwater - 3.05		Leachate Collection and Removal System	ongoing																												
253	Groundwater - 3.15		Underground Diesel Fuel Storage Tanks	ongoing	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	
254	Fire Service - 12.02		On-site Fire Response Capabilities-Operating Equipment	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	
255	Fire Service - 12.03		On-site Fire Response Capabilities- Roads/Water	ongoing	✓	FRN	I-o	✓	FRN	I-p	✓	FRN	I-q	R	✓	FRN	I-r	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE
256	Fire Service - 12.04		On-site Fuel Storage Tanks-Permit Issuance	ongoing	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	
257	Fire Service - 12.05		Building Limits	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	
258	Fire Service - 12.06		Methane Gas Monitoring-On-site Structures	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	
259	Hazardous Materials – 13.02		Waste Load Checking Program	ongoing																												
260	Hazardous Materials – 13.05		Hazardous Waste Disposal	ongoing																												
261	Hazardous Materials – 13.10		Hazardous Waste-Procedures	ongoing																												
262	Hazardous Materials – 13.11		Spill Response Program	ongoing																												
263	Safety - 16.02		Injury and Illness Prevention Program	status																												
264	Safety - 16.03		Working Conditions-Monitoring	status																												
265	Safety - 16.04		Inspection Checklist-Work Area Exposure	status																												
266	Safety - 16.07		Accident/Injury Reports	status																												
267	Safety - 16.08		First-aid Kits	ongoing																												
268	Safety - 16.10		Lockout/Blackout Procedures	status																												
269	Safety - 16.11		Personal Protective Equipment	status																												
270	Landfill Operation - 18.8		Prohibited Waste Procedures	ongoing																												
271																																
272	Archaeologist																															
273																																
274																																
275	Ecological Significance - 62	62	Archaeological/Paleontological Identification/Conservation Program	ongoing	✓	C	I-o	✓	C	I-p	✓	C	I-q	✓	C	I-r	✓	C	I-a	✓	C	I-b	✓	C	I-c	✓	C	I-d	✓	C	I-e	
276	IMP - Part VII.B	IMP7	Archaeological/Paleontological Report Submission	ongoing	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	
277	Archaeological – 5.01		Archaeological Resurvey	ongoing	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	
278	Archaeological – 5.02		Onsite Archaeologist	ongoing	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	
279	Archaeological – 5.03		Onsite Paleontologist	ongoing	✓	C	I-o	✓	C	I-p	✓	C	I-q	✓	C	I-r	✓	C	I-a	✓	C	I-b	✓	C	I-c	✓	C	I-d	✓	C	I-e	
280	Archaeological – 5.04		Archaeological/Paleontological Identification Instruction	ongoing	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	
281	Archaeological – 5.05		Archaeological Resource Curation	ongoing	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	/	NA	NONE	

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282																																									
283	Paleontologist																																								
284																																									
285																																									
286	Ecological Significance - 62	62	Archaeological/Paleontological -Material Identification/Conservation	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		
287	IMP - Part VII.B	IMP7	Archaeological/Paleontological-Report Submission	ongoing																																					

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## **Appendix I**

### **Further Review Needed Comments: Reference I-a through I-e First Quarter 2017 Site Visits**

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Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	Q – B.2.c		City Planning	<p>I-a through I-e: A buttress design to support CC-4A Part 3 that was submitted to the County Department of Public Works was under review. This buttress was outside of the prior-approved landfill footprint.</p> <p>Select areas in Phase II-C and Phase IV-3 on the County top deck were receiving waste in addition to Cell CC-3A and 3B. All these areas were using ADC. Access roads were realigned and modified to access the operation areas and contend with the wet weather. All roadways were temporary, using recycled concrete, rock, and asphalt.</p> <p>Cell CC-4A Part 1 was under construction. Rain events hampered the completion.</p>
		Geology - 1.07	County DPW EPD/SCL-LEA	I-a through I-e: See Q – B.2.c above.
		Geology - 1.12	County DPW EPD/SCL-LEA	I-a through I-e: See Q – B.2.c above.
	Q - C.10.c		City Planning	<p>I-a: The gas-to-energy plant was shut down for repairs due to an electrical short, 49.9% methane and 2.42% oxygen. Flare 1 - 1738 SCFM; Flare 3 - approximately 2000 SCFM; Flare 9 - shut down; Flare 10 - 4988 SCFM.</p> <p>I-b: The gas-to-energy plant was operating at 100% energy production using 8760 SCFM of recovered landfill gas, 39.9% methane and 5.18% oxygen. Flare 1 - not monitored; Flare 3 - not monitored; Flare 9 - 3887 SCFM; Flare 10 - shut down.</p> <p>I-c: The gas-to-energy plant was operating at 100% energy production using 8538 SCFM of recovered landfill gas, 49.9% methane and 2.3% oxygen. Flare 1 - 2160 SCFM; Flare 3 - not monitored; Flare 9 - 3652 SCFM; Flare 10 - shut down.</p> <p>I-d: The gas-to-energy plant was operating using 7401 SCFM, 46.4% methane and 2.54% oxygen. Flare 1 - 2180 SCFM; Flare 3 - not monitored; Flare 9 - 2466 SCFM; Flare 10 - 2510 SCFM.</p> <p>I-e: The gas-to-energy plant was operating at 100% energy production using 8636 SCFM of recovered landfill gas, 50.9% methane and 1.91% oxygen. . Flare 1 - shut down; Flare 3 - not monitored; Flare 9 - shut down; Flare 10 - 4384 SCFM.</p>
		Odor/Landfill Gas - 7.07	County Planning/SCAQMD SCL-LEA	I-a through I-e: See Q - C.10.c above.
		Gas - 52	County DPW EPD/SCL-LEA County Forester Fire Warden	I-a through I-e: See Q - C.10.c above.
	T-4		City Planning, City Fire Department	<p>I-a through I-e: A paved secondary access road was constructed from the Flare 11 site pad that connects to the ridgeline fire roads down to Coltrane Road at the I-5 Freeway.</p> <p>I-a through I-e: 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.</p>
		Fire Service - 12.03	County DPW EPD/SCL-LEA County Forester Fire Warden	I-a through I-e: See T-4 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	M - 4.1.1 / 7		City Planning, DOGGR	<p>I-a through I-e: The two old oil well steel casings in the area north of the new office site had been gradually lowered. The soil around them had not yet reached their final elevation. Final lowering of the well casings and permanent abandonment should be done after final grades are reached.</p> <p>An additional old abandoned oil well was observed adjacent to the new secondary access road. This well should be re-abandoned when the other two wells are re-abandoned. None of the wells were leaking oils or gas, nor pose a hazard.</p>
		Re-abandonment Procedures	County Planning, County DPW EPD/SCL-LEA, DOGGR	I-a through I-e: See M - 4.1.1 / 7 above.
	M - 4.2.12 / 28		City Planning/SCAQMD	<p>I-a through I-e: Alternatives to hydroseeding on interim and inactive slopes and decks for slope stability and dust control were being used due to the drought.</p> <p>I-a: Site surface water control wattles and ditches adjacent to the office facilities had only minor erosion from the recent rain events. Cell CC-3B slopes without wattles and unlined v-ditches had significant erosion. CC-4 Part 1 had minor erosion gullies in the operations layer.</p> <p>I-b: Slopes with straw wattles adequately controlled erosion. Where not used, deep gullies were observed. Wattles were completely loaded with silt in some areas and may not continue to be effective in controlling erosion. Posi-Shell was observed being applied to a test area on CC-3A slopes facing Cell CC-4 Part 1.</p> <p>I-c: The general condition of the slopes in Cell CC-3A and CC-3B were heavily impacted by the recent rainstorms. Drainage ribbons were seen on most waste slopes with exposed trash observed. Repairs to the slopes were slow due to the wet slope conditions. The inactive County slopes had deep cut erosion gullies in the soil stockpile slope areas. The old City landfill slopes had minor areas of erosion. Posi-Shell along the access to Cell CC-3A top deck performed well during the rains. Posi-Shell above the CC-4 Part 1 lined area had areas that were undercut from the runoff from the recent heavy rain events. Cell CC-4 Part 1 operations layer had erosion gullies. The operations layer was in the process of being repaired. The underlying geosynthetics were not affected.</p> <p>I-d: A large area of the west-facing slope of CC-3A was covered with Posi-Shell. No new drainage control was installed to handle the increase in rainwater flow rate. Cell CC-4 Part 1 was having repairs done to the liner system.</p>
		Fugitive Dust - 45.F	County DPH/County LEA County DPW-EPD County Biologist	I-a through I-d: See M - 4.2.12 / 28 above.
	M -4.2.13/ 29, 30, 32, 34		City Planning/SCL-LEA/SCAQMD	I-a through I-e: Compliance with these mitigation measures, concerning landfill gas monitoring and odor control and detection, is being monitored by a multi-agency team led by the SCAQMD. Only obvious gas emission sources, odorous operations related to gas and/or gas and landfill liquids, lack of cover, or exposed trash resulting in odor observed during the monitoring visit will be reported.
		Amendment 45.N-4.a, 4.c, 4.d	County DPW-EPD	I-a through I-e: See M -4.2.13/ 29, 30, 32, 34 above.
		Amendment 45.N-5	County DPW-EPD	I-a through I-e: 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-a: There were no landfill odors detected around the school, nor the immediate adjacent neighborhood. A faint background odor was detected at: Balboa and Woodley at 6:50 a.m.; end of Constable at 7:00 a.m.; Timber Ridge at Canyon Ridge at 7:10 a.m.; Constable and Canyon Ridge at 7:15 a.m.; and Balboa and Orozco at 7:20 a.m. All but the odor at Timber Ridge dissipated by 8:50 a.m. At 9:30 a.m., strong liquids odors were detected coming from the Cell CC-3A and CC-3B area. A Cesar R Trucking truck and dump bed-type trailer was parked near the scales and the monitors detected an odorous load. A second Cesar R Trucking truck and trailer was observed dumping an odorous load at Cell CC-3B. A liquids-type odor was detected coming from the top of the CC-3A slope. Landfill drilling liquids were being stored in an open pond and vacuum-pumped away into a truck. This appeared to be the odor source detected in Cell CC-4 and on the Old City Deck C. Cell CC-3B had Buffalo Monsoon misters in operation that were controlling the operating face odors and keeping them localized to the area.</p> <p>I-b: A faint to distinct landfill liquids-type odor was detected at the following locations: Balboa and Knollwood at 6:45; Balboa and Woodley at 7:00; Westbury and Balboa at 7:15; Jimeno and Nanette at 7:20; Orozco and Titian at 7:30; El Oro and Resnick at 7:55; Nugent and Westbury at 8:05; Westbury and Jolette at 8:10; Orozco and Sesnon at 8:20.</p> <p>I-c: There was a small area on Balboa between Timber Ridge and the I-5 at approximately 8:15 a.m. where distinct landfill liquids odor was detected. Well drilling was observed on the CC-3A top deck. Landfill liquids were being collected in an open air pit for vacuum truck removal. No vapor recovery system was observed. Strong liquids odors were detected adjacent to and away from the area due to the liquids in the open pit.</p> <p>I-d: From 6:50 to 8:00 a.m., there was a faint waste liquids odor in the air that came and went with wind gusts from the north. Well drilling was observed on the County south top deck north of the top deck of CC-3A. Liquid odors were detected on the top deck from the drilling operation. A second well drilling rig was observed north west of the first drill rig. This operation had a strong localized gas odor. These odors did not carry far. The Pure Carb Vessel in the leachate treatment facility was venting to the atmosphere and liquids-type odors that could be detected at the terminal basin.</p> <p>I-e: Faint odors at the end of Constable that came and went from the north with approximately 15 MPH wind gust at 7:35 a.m. At 8:00, there were faint odors at Timber Ridge and Mission Tierra that came and went with wind gusts from the north. At 8:10, a strong liquids odor was detected on San Fernando Road at the southern entrance block wall. At 8:25, the leachate treatment facility had a Buffalo Monsoon water mister operating with odorant. At 8:40 the graywater handling area had wind gusts of 10 to 15 MPH coming from the north and strong condensate odors were coming from the sewer lift pump vault and were wafting onto San Fernando Road. A strong liquids odor was detected on the top deck of CC-3A coming from a well drilling rig below, which was drilling on a CC-3A slope bench. A second well drilling rig in the County Phase II working area had a localized gas odor. There was a flare exhaust odor detected between Flare 10 and the Sunshine Gas Producers' flare.</p>
		Odor/Landfill Gas - 7.06	County DPW-EPD/SCL-LEA/SCAQMD	I-a through I-e: See M-4.2.13/33 above.
		Amendment 45.N - 4.a, 4.c, 4.d	County DPW-EPD	I-a through I-e: See M-4.2.13/29, 30, 32, 33, and 34 above.
		Amendment 45.N - 5	County DPW-EPD	I-a through I-e: See M-4.2.13/29, 30, 32, 33, and 34 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager		Surface Water - 2.15	County DPW EPD/ LARWQCB, SCL- LEA	<p>I-a through I-e: A preventative maintenance program with inspection of facility equipment, systems, and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater should be performed on a monthly basis, with a summary report issued on a quarterly basis.</p> <p>I-a: The retaining wall on San Fernando Road had soil slough from the hillside and tree roots and soil were pushing out the fence in some areas and loading the wall.</p> <p>I-b: The gabions in the westside drainage channel to the Terminal Basin were completely loaded with soil. Some were being removed by landfill operations personal along with the soil retained. The corrugated HDPE downcomer drainage pipe above the main access road came apart and runoff caused deep erosion gullies. The retaining wall on San Fernando Road had more soil sloughed from the hillside and was horizontally loading the fence in more places. Additional rain could cause more sloughing and possible wall or fence failure.</p> <p>I-c: The washout of the westside drainage channel asphalt and sidewalk that was observed on February 13th was repaired with concrete. The retaining wall on San Fernando Road had a substantial amount of soil slough down from the hillside. The fence was topped in three places. There was no top-of-the-wall drainage. Soil had risen in front of the wall and was encroaching into the right traffic lane.</p> <p>I-d: Horizontal movement and cracking of the westside drainage concrete channel sidewalls and lifting and cracking of the concrete floor near the County sage mitigation area was observed. The drainage pipe across from the terminal basin on the City south slope had no down-comer pipe.</p> <p>I-e: The retaining wall on San Fernando Road had additional soil slough down from the hillside since the previous monitoring. There were additional soils and rock topping the fence in multiple areas.</p>
	M - 4.4.2/69		City Planning	I-a through I-e: The City Attorney, City DWP, City Recreation and Parks, and Republic were finalizing an agreement to use the Chatsworth Reservoir as a wetland mitigation site. The agreement, once finalized, will need DWP Board and City Council approval. Republic is preparing an addendum to the MND.
		Biota - 4.4.3	CDFW	I-a through I-e: See M - 4.4.2 / 69 above.
	M - 4.9.3 / 110		City Planning/City LEA	I-d: Sierra Highway near the I-14 overpass had a shopping cart, couch, and debris dumped on the shoulder of the highway. The City had removed the dirt and illegally dumped waste that had been on the roadway at San Fernando Road at the I-5 overpass. More dirt was illegally dumped on the shoulder and waste was dumped under the overpass behind the overpass fencing. This is outside of Republic's clean-up area.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Civil and Geotechnical Engineer</b>	M - 4.1.1 / 2		City Building and Safety City Planning	I-a through I-e: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 4		City Planning/LARWQCB Cal Recycle	I-a through I-e: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 5		City Planning/ LARWQCB Cal Recycle	I-a through I-e: Future out-of-approved landfill footprint grading is proposed for a CC-4 Part 3 cell buttress. Grading plans have been submitted to the County Department of Public Works for approval. The only grading occurring in this quarter was for the development of Cell CC-4 Part 1 and the removal of stockpiled soil for waste cover. This was inside the approved landfill footprint.
		Geology - 1.07	County DPW EPD/ County LEA	I-a through I-e: See M - 4.1.1 / 5 above.
	M - 4.1.5 / 12		City Planning/LARWQCB Cal Recycle	I-a through I-e: See M - 4.1.1 / 5 above.
	M - 4.1.6 / 18			I-a through I-e: The landfill perimeter boundary survey PVC pipe markers have been removed in areas where Edison pole grading took place, as well as near the Flare 11 site pad grading. These boundary markers have not been replaced. All markers should be replaced once the CC-4 Part 3 landslide buttress is installed.
	M - 4.14.1 / 155		City Planning/Cal Recycle PW-BOE LADBS City LEA	I-a through I-e: Access roads were being maintained around the working area for emergency access.
	M - 4.18 / 178		City Planning/City LEA	I-a through I-e: A map showing areas that are at the final elevations and which should have final cover should be available for review. Documents showing current filled elevations should also be available onsite for review. These conditions were not monitored.
		Visual - 10.01 Visual - 10.02	County DPW EPD/ LARWQCB SCL-LEA	I-a through I-e: See M - 4.18 / 178 above.
<b>Hydrologist</b>	M - 4.3.1/ 37, 38		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	I-a through I-e: Surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas and most conveyance V-ditches were unlined.  Cell CC-4 Part 1 had a drainage system to a low point sump.
		Surface Water - 2.03 Surface Water - 2.12	County DPW EPD/ LARWQCB SCL-LEA	I-a through I-e: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 39		City Planning/LARWQCB Cal Recycle	I-a through I-e: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 40		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-a through I-e: 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 / 41			<p>I-a and I-b: The slopes that were void of vegetation had straw wattles placed on them to control erosion. Rock gabions were constructed on the Old City South landfill access road, in the westside drainage channel and across the inlet and within the Terminal Basin to slow down the flow of water and drop out sediment. The erosion and sediment control systems performed as designed and manage the rainwater and sediment. The erosion on the slopes was minimized due to the straw wattles.</p> <p>I-c: Due to the extremely heavy rainfall, the wattle slope erosion controls were not able to handle the high flows of water and sediment loading. Drainage ribbons were observed on most of the slopes with exposed trash observed.</p>
	M - 4.3.1 / 43		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	<p>I-a: There was a significant amount of sediment behind each gabion in the westside drainage channel along the main access road. Sediment from the Old City North slopes and Cell CC-3B slopes filled the temporary dirt basin below Cell CC-3B with sediment blocking gravity drainage into the Terminal Basin. A pump was being used to drain the basin. Basin B had rainwater ponding at the outlet risers. Sediment was seen in approximately 40% of the basin. Basin A had a significant amount of sediment and standing water. The outlet risers were not draining the basin. There was soil that sloughed into the basin from the adjacent graded hillside. The outlet channel 12" corrugated pipes were blocked by trash and sediment. The Terminal Basin had a significant amount of sediment and standing water. There was minimal drainage out of the basin. There was approximately five feet of freeboard to the top of the outlet risers.</p> <p>I-b: Observed a significant amount of sediment in Basin A with soil sloughing from the prior adjacent Edison pole grading. The outlet risers were not draining rainwater and there was a large area of ponding rainwater. The outlet channel is blocked with sediment and trash. The native hillside had wind-blown trash. The westside channel inlet was blocked with tumbleweed. Basin D was observed and was free of sediment and ponding water. Basin B had no ponding water and a minimal amount of sediment. The temporary dirt basin below Cell CC-3B was filled with dirt and was not draining. A pump was being used to drain it. The dirt slopes on the eastside of the basin adjacent to the concrete outlet channels had significant uncontrolled erosion. The Terminal Basin had a significant amount of sediment. The outlet risers were plugged with sediment and there was water ponding. There was minimal water being released.</p>

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Hydrologist				<p>I-c: There was significant amount of trash and sediment in the temporary basin below Cell CC-3B. The basin was filled with soil to the spillway level. The terminal basin had standing water and a significant amount of sediment around the outlet risers. There was approximately two feet of free board to the top of the risers. There was minimal water flow leaving the basin. There was sediment observed on the outlet side. Basin B had a minimal amount of sediment and standing water. Soil slid down from the hillside in the far eastern area of the basin. There was trash in the basin's sediment. Basin D was clean and dry. Basin A had standing water. There was sediment around the rock filter for the outlet risers. Soil from the Edison pole construction slid into the basin. The adjacent hillside had an active spring flowing water down a slope and cut ribbons into the hillside. The basin outlet channel was blocked and had approximately two feet of standing water.</p> <p>I-d: Basin D was observed to be dry and free of sediment. Basin A had standing water near the outlet risers and a significant amount of sediment. The Basin A outlet channel was blocked by a construction road and had ponding water. The cut hillsides south of Basin A had significant sloughing of soil into the basin. There was a significant amount of sediment in the terminal basin. The outlet risers were covered with trash and were significantly blocked with sediment. Sediment was observed in the outlet channel of the terminal basin.</p>
				<p>I-e: The temporary basin below Cell CC3B had ponding water being pumped and sediment being removed. The prior noted trash in the basin had been removed. The terminal basin had additional sediment since the last site monitoring, with surface water ponding around the outlet risers. The risers were covered with trash and significantly blocked by sediment, restricting current capacity to handle rainwater. Portions of the basin had sediment moved to piles to drain water. Removal of sediment was in progress. Basin B had sediment with minor amounts of ponding water. The native hillside had minimal wind-blown litter.</p> <p>Basin D was dry and had no sediment from the rains. Basin A had standing water and the risers appeared to be blocked by sediment with minimal draining occurring. The outlet channel blockage had been cleared. The southern graded slopes had soil slough into the basin from the rainwater runoff.</p>
		Surface Water - 2.10	LARWQCB / County DPW EPD	I-a through I-e: See M - 4.3.1 / 43 above.
		Surface Water - 2.14	LARWQCB / County DPW EPD	I-a through I-e: 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-a through I-e: Surface Water - 2.14 above.
	M - 4.3.1/ 46		City Planning/ LARWQCB CalRecycle PW-BOE	I-a through I-e: See 2.15 above.

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-a through I-d: See M - 4.2.12 / 28 above.
		Geology - 1.14	LARWQCB/ County Forester	I-a through I-d: See M - 4.2.12 / 28 above.
	M - 4.2.11 / 23		City Planning	I-a through I-d: See M - 4.2.12 / 28 above.
		Geology - 1.13	County DPW EPD/ County Forester LARWQCB	I-a through I-d: See M - 4.2.12 / 28 above.
	M - 4.2.12		SCL-LEA/ City Planning	I-a through I-d: See M - 4.2.12 / 28 above.
		Revegetation - 44.A	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-a through I-d: See M - 4.2.12 / 28 above.
		Revegetation - 44.F	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-a through I-d: See M - 4.2.12 / 28 above.
		Biota - 4.42	SCL-LEA	I-a through I-d: See M - 4.2.12 / 28 above.
		Air Quality - 6.02	SCAQMD/ SCL-LEA	I-a through I-d: See M - 4.2.12 / 28 above.
		Visual - 10.08	County Forester	I-a through I-d: See M - 4.2.12 / 28 above.
	M - 4.4.1 / 60		City Planning	I-a: Deck C sage mitigation was doing well and greening-up from the rains and cooler temperatures. The PM-10 oak trees were also showing new growth.  I-b: The County sage mitigation slopes had deep erosion ruts from uncontrolled rainwater. No new growth was observed.  I-c: The Deck C sage mitigation is greening up with the cooler and wet winter. Decks A and B native vegetation is also greening up.  I-d: Deep rill erosion was observed on the County sage mitigation slopes and adjacent slope areas. City Decks A and B native vegetation were responding well to the rain and cool temperatures. City Deck C sage mitigation was doing well with new plants growing.  I-e: City Deck C sage mitigation was doing well with vegetation flowering.  I-a through I-e: No sage mitigation activity was performed in the County sage area.
		Biota - 4.27	County LEA/CDFW	I-a through I-e: See M - 4.4.1 / 60 above.
		Biota - 4.10	County LEA/CDFW	I-a: Big-Cone Fir mitigation trees were doing well with the cooler weather and rain.  I-c: The PM-10 oak trees were showing signs of growth.
	M - 4.9.4 / 121		City Planning/Cal Recycle Cal OSHA LAFD City LEA	I-a through I-e: See T-4 above.

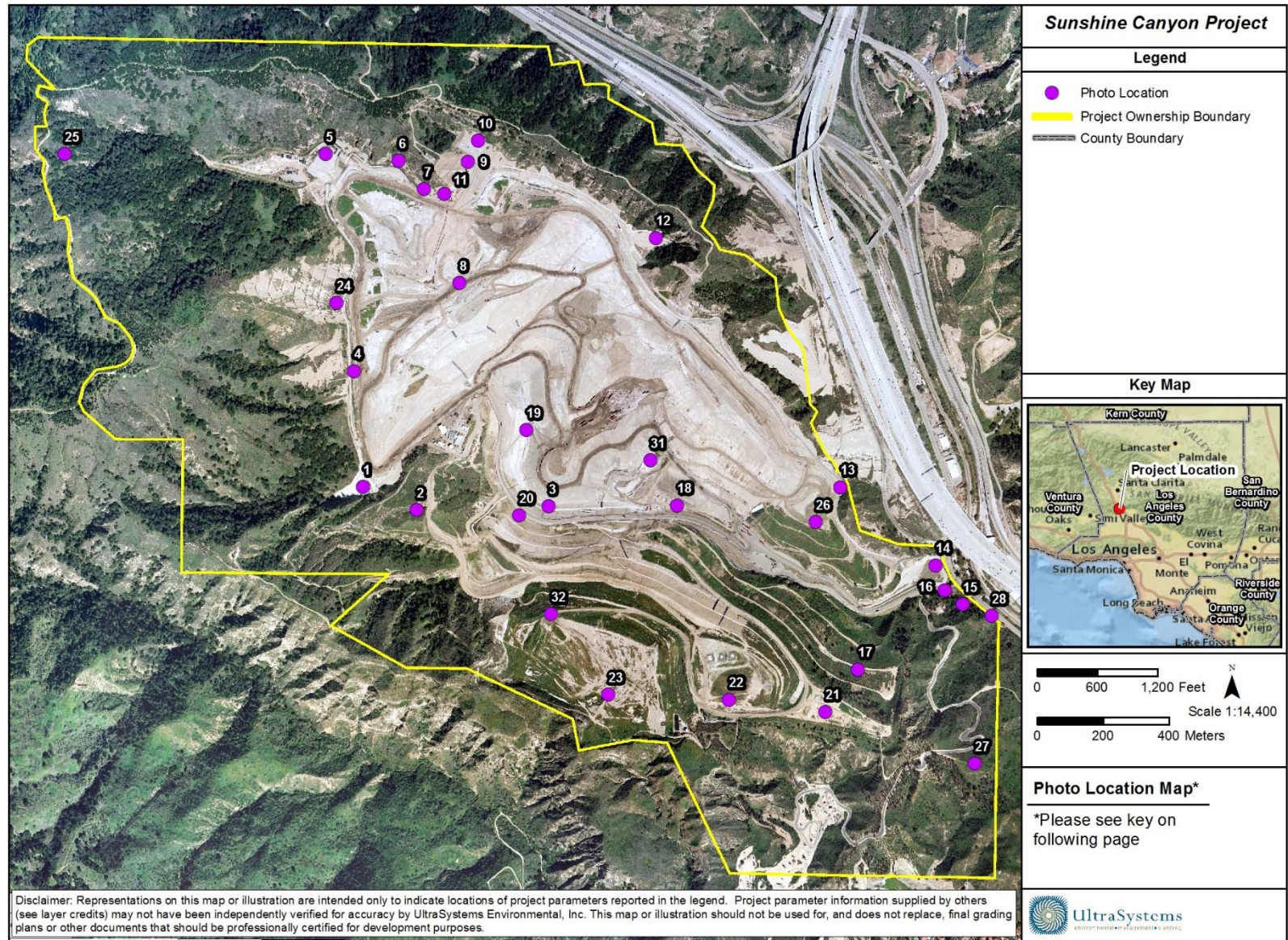


Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Biologist</b>	M-4.9.4/125		City Planning/ CalRecycle Cal OSHA SCL-LEA	I-a through I-e: Throughout the 1st Quarter 2017, the south perimeter oil field gate was observed to be locked.
<b>Paleontologist</b>	M-4.19.2/191		City Planning	I-a through I-e: No paleontologist was needed to be on-site in the 1st Quarter of 2017.
		Ecological Significance 62	County Planning	I-a through I-e: See M-4.19.2/191 above.

## Appendix II

### Relevant Site Photos

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Path: J:\Projects\5800\_Sunshine\_Canyon\MXD\PhotoLocations\5800\_Sunshine\_Canyon\_PhotoLocations\_Quarterly\_Report\_#1\_2016.mxd  
 Service Layer Credits: Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp., CAL FIRE, 2007, Republic, 2013, UltraSystems Environmental, Inc., 2016

April 27, 2016

## Photo Location Map Key

Map Location	Title	Photo Number
1.	Basin A Area	1 – 67
2.	Site Grading South of Basin A	–
3.	City Lined Drainage Lift Area	–
4.	Westside Drainage Channel	182 – 200
5.	Basin D Area	201 – 215
6.	Basin D Outlet Channel	–
7.	Edison Power Pole Construction Sites	–
8.	County Top Deck	216 – 247
9.	Flares 8–11	248 – 276
10.	Gas-to-Energy Facility	–
11.	Flares 8–11 Adjacent Hillsides	–
12.	Basin B Area	277 – 309
13.	Eastside Drainage Channel	310 – 313
14.	Terminal Basin	314 – 370
15.	Sewer and Gray Water Area	371 – 375
16.	Leachate Treatment Facility	376 – 384
17.	Realigned Access Road	–
18.	Cell CC3B Area	385 – 409
19.	Cell CC3A and Cell CC4 Area	68 – 181
20.	Truck Scale and Office Facilities Area	410 – 440
21.	City Sage Mitigation – Deck C, and City PM-10 Tree Mitigation	441 – 476
22.	City Sage Mitigation – Deck B	477 – 478
23.	City Sage Mitigation – Deck A	479 – 494
24.	County Sage Mitigation Area	495 – 513
25.	Big Cone Fir Mitigation	514 – 530
26.	Old City North	–
27.	Oak Tree Mitigation in Buffer Area	–
28.	San Fernando Road Frontage	530 – 591
29.	Offsite Illegal Dumping	592 – 603
30.	Offsite Greenwaste Odor Sources	604 – 609
31.	Site Working Areas	610 – 721
32.	General Site Area	722 – 804





**Photo 1: Basin A: January 17, 2017**



**Photo 2: Basin A: January 17, 2017**



**Photo 3: Basin A: Basin A: January 17, 2017**



**Photo 4: Basin A: January 17, 2017**





**Photo 5: Basin A: January 17, 2017**



**Photo 6: Basin A: January 17, 2017**



**Photo 7: Basin A: January 17, 2017**



**Photo 8: Basin A Outlet: January 17, 2017**





**Photo 9: Basin A Outlet: January 17, 2017**



**Photo 10: Basin A Outlet: January 17, 2017**



**Photo 11: Basin A: January 31, 2017**



**Photo 12: Basin A: January 31, 2017**





**Photo 13: Basin A: January 31, 2017**



**Photo 14: Basin A: January 31, 2017**



**Photo 15: Basin A: January 31, 2017**



**Photo 16: Basin A: January 31, 2017**





**Photo 17: Basin A: January 31, 2017**



**Photo 18: Basin A: January 31, 2017**



**Photo 19: Basin A: January 31, 2017**



**Photo 20: Basin A: January 31, 2017**





**Photo 21: Basin A: January 31, 2017**



**Photo 22: Basin A Outlet: January 31, 2017**



**Photo 23: Basin A Outlet: January 31, 2017**



**Photo 24: Basin A Outlet: January 31, 2017**





**Photo 25: Basin A Outlet: January 31, 2017**



**Photo 26: Basin A Inlet: January 31, 2017**



**Photo 27: Basin A Native Hillsides: January 31, 2017**



**Photo 28: Basin A Native Hillsides: January 31, 2017**





**Photo 29: Basin A Native Hillside: January 31, 2017**



**Photo 30: Basin A Native Hillside: January 31, 2017**



**Photo 31: Basin A: February 23, 2017**



**Photo 32: Basin A: February 23, 2017**





**Photo 33: Basin A: February 23, 2017**



**Photo 34: Basin A: February 23, 2017**



**Photo 35: Basin A: February 23, 2017**



**Photo 36: Basin A: February 23, 2017**





**Photo 37: Basin A Outlet: February 23, 2017**



**Photo 38: Basin A Outlet: February 23, 2017**



**Photo 39: Basin A Outlet: February 23, 2017**



**Photo 40: Basin A Outlet: February 23, 2017**





**Photo 41: Basin A Side Slope: February 23, 2017**



**Photo 42: Basin A Side Slope: February 23, 2017**



**Photo 43: Basin A: March 9, 2017**



**Photo 44: Basin A: March 9, 2017**





**Photo 45: Basin A: March 9, 2017**



**Photo 46: Basin A: March 9, 2017**



**Photo 47: Basin A: March 9, 2017**



**Photo 48: Basin A: March 9, 2017**





**Photo 49: Basin A: March 9, 2017**



**Photo 50: Basin A Native Hillsides: March 9, 2017**



**Photo 51: Basin A Native Hillsides: March 9, 2017**



**Photo 52: Basin A Native Hillsides: March 9, 2017**





**Photo 53: Basin A Outlet Ponding Water: March 9, 2017**



**Photo 54: Basin A Outlet Ponding Water: March 9, 2017**



**Photo 55: Erosion in Adjacent Hillside to Basin A: March 9, 2017**



**Photo 56: Erosion in Adjacent Hillside to Basin A: March 9, 2017**





**Photo 57: Erosion in Adjacent Hillside to Basin A: March 9, 2017**



**Photo 58: Basin A: March 23, 2017**



**Photo 59: Basin A: March 23, 2017**



**Photo 60: Basin A: March 23, 2017**





**Photo 61: Basin A: March 23, 2017**



**Photo 62: Erosion in Adjacent Hillside to Basin A: March 23, 2017**



**Photo 63: Erosion in Adjacent Hillside to Basin A: March 23, 2017**



**Photo 64: Erosion in Adjacent Hillside to Basin A: March 23, 2017**





**Photo 65: Erosion in Adjacent Hillside to Basin A: March 23, 2017**



**Photo 66: Basin A Outlet: March 23, 2017**



**Photo 67: Basin A Outlet: March 23, 2017**



**Photo 68: CC4 Liner Area: January 17, 2017**





**Photo 69: CC4 Liner Area: January 17, 2017**



**Photo 70: CC4 Liner Area: January 17, 2017**



**Photo 71: CC4 Liner Area: January 17, 2017**



**Photo 72: CC4 Liner Area: January 17, 2017**





**Photo 73: CC4 Liner Area: January 17, 2017**



**Photo 74: CC4 Liner Area: January 17, 2017**



**Photo 75: CC4 Liner Area: January 17, 2017**



**Photo 76: CC4 Liner Area: January 17, 2017**





**Photo 77: CC4 Liner Area: January 17, 2017**



**Photo 78: CC4 Liner Area: January 17, 2017**



**Photo 79: CC4 Liner Area: January 17, 2017**



**Photo 80: CC4 Liner Area: January 17, 2017**





**Photo 81: CC4 Liner Area: January 17, 2017**



**Photo 82: Well Drilling on CC3A Bench: January 17, 2017**



**Photo 83: Well Drilling on CC3A Bench: January 17, 2017**



**Photo 84: Well Drilling on CC3A Bench: January 17, 2017**





**Photo 85: Well Drilling on CC3A Bench: January 17, 2017**



**Photo 87: CC4 Liner Area: January 31, 2017**



**Photo 86: CC4 Liner Area: January 31, 2017**



**Photo 88: CC4 Liner Area: January 31, 2017**





**Photo 89: CC4 Liner Area: January 31, 2017**



**Photo 90: CC4 Liner Area: January 31, 2017**



**Photo 91: CC4 Liner Area: January 31, 2017**



**Photo 92: CC4 Liner Area: January 31, 2017**





**Photo 93: CC4 Liner Area: January 31, 2017**



**Photo 94 CC4 Liner Area: January 31, 2017**



**Photo 95: CC4 Liner Area: January 31, 2017**



**Photo 96: CC4 Liner Area: January 31, 2017**





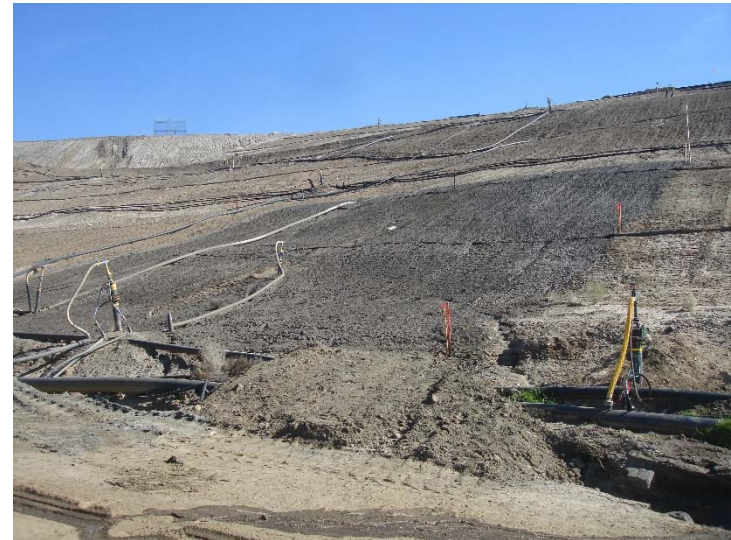
**Photo 97: CC4 Liner Area: January 31, 2017**



**Photo 98: CC4 Liner Area: January 31, 2017**



**Photo 99: CC4 Liner Area: January 31, 2017**



**Photo 100: Posi-Shell on Slopes above CC4 Liner Area: January 31, 2017**





**Photo 101: Posi-Shell on Slopes above CC4 Liner Area: January 31, 2017**



**Photo 102: Posi-Shell on Slopes above CC4 Liner Area: January 31, 2017**



**Photo 103: Posi-Shell on Slopes above CC4 Liner Area: January 31, 2017**



**Photo 104: Posi-Shell on Slopes above CC4 Liner Area: January 31, 2017**





**Photo 105: CC3A Slopes Erosion: January 31, 2017**



**Photo 106: CC3A Slopes Erosion: January 31, 2017**



**Photo 107: CC3A Slopes Erosion: January 31, 2017**



**Photo 108: CC3A Slopes Erosion: January 31, 2017**





**Photo 109: CC3A Slopes Erosion: January 31, 2017**



**Photo 110: CC3A Slopes Erosion: January 31, 2017**



**Photo 111: CC3A Slopes Erosion: January 31, 2017**



**Photo 112: CC3A Slopes Erosion: January 31, 2017**





**Photo 113: CC3A Slopes Erosion: January 31, 2017**



**Photo 114: CC3A Slopes Erosion: January 31, 2017**



**Photo 115: CC3A Slopes Erosion: January 31, 2017**



**Photo 116: CC3A Slopes Erosion: January 31, 2017**





**Photo 117: CC3A Slopes Erosion: January 31, 2017**



**Photo 118: CC3A Slopes Odors: January 31, 2017**



**Photo 119: CC3A Slopes Odors: January 31, 2017**



**Photo 120: Well Drilling on CC3A Top Deck: January 31, 2017**





**Photo 121: Well Drilling on CC3A Top Deck: January 31, 2017**



**Photo 122: Well Drilling on CC3A Top Deck: January 31, 2017**



**Photo 123: Well Drilling on CC3A Top Deck: January 31, 2017**



**Photo 124: Slope Erosion near CC4 Liner Area: February 23, 2017**





**Photo 125: Slope Erosion near CC4 Liner Area: February 23, 2017**



**Photo 126: Slope Erosion near CC4 Liner Area: February 23, 2017**



**Photo 127: Slope Erosion near CC4 Liner Area: February 23, 2017**



**Photo 128: Site Erosion: February 23, 2017**





**Photo 129: Site Erosion: February 23, 2017**



**Photo 130: Site Erosion: February 23, 2017**



**Photo 131: Site Erosion: February 23, 2017**



**Photo 132: Slope Erosion near CC4 Liner Area: February 23, 2017**





**Photo 133: Slope Erosion near CC4 Liner Area: February 23, 2017**



**Photo 134: Slope Erosion near CC4 Liner Area: February 23, 2017**



**Photo 135: Slope Erosion near CC4 Liner Area: February 23, 2017**



**Photo 136: Water Ponding near CC3A Access Road: February 23, 2017**





**Photo 137: Water Ponding near CC3A Access Road: February 23, 2017**



**Photo 138: Water Ponding near CC3A Access Road: February 23, 2017**



**Photo 139: Water Ponding near CC3A Access Road: February 23, 2017**



**Photo 140: Well Drilling on CC3A Top Deck: February 23, 2017**





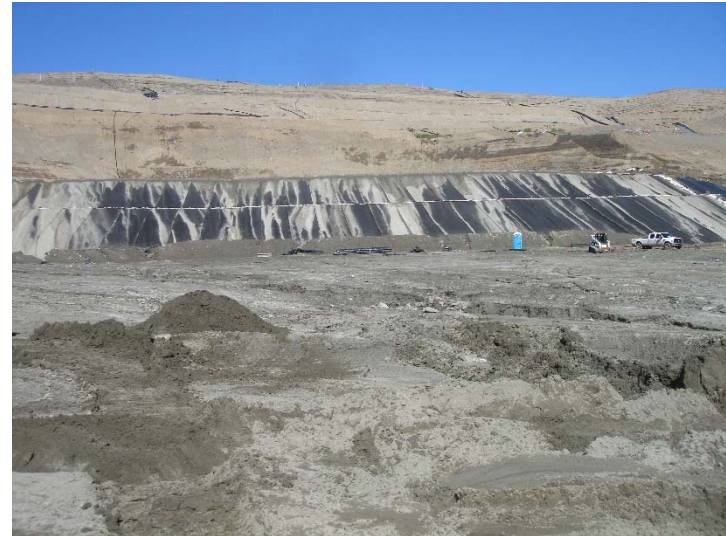
**Photo 141: Well Drilling on CC3A Top Deck: February 23, 2017**



**Photo 142: Well Drilling on CC3A Top Deck: February 23, 2017**



**Photo 143: Well Drilling on CC3A Top Deck: February 23, 2017**



**Photo 144: CC4 Liner Area: March 9, 2017**





**Photo 145: CC4 Liner Area: March 9, 2017**



**Photo 146: CC4 Liner Area: March 9, 2017**



**Photo 147: CC4 Liner Area: March 9, 2017**



**Photo 148: CC4 Liner Area: March 9, 2017**





**Photo 149: CC4 Liner Area: March 9, 2017**



**Photo 150: CC4 Liner Area: March 9, 2017**



**Photo 151: CC4 Liner Area: March 9, 2017**



**Photo 152: CC4 Liner Area: March 9, 2017**





**Photo 153: CC4 Liner Area: March 9, 2017**



**Photo 154: CC4 Liner Area: March 9, 2017**



**Photo 155: CC4 Grading Area: October 11, 2016**



**Photo 156: CC4 Liner Area: March 9, 2017**





**Photo 157: CC4 Liner Area: March 9, 2017**



**Photo 158: Posi-Shell on Slopes above CC4 Liner Area: March 9, 2017**



**Photo 159: Posi-Shell on Slopes above CC4 Liner Area: March 9, 2017**



**Photo 160: Posi-Shell on Slopes above CC4 Liner Area: March 9, 2017**





**Photo 161: Posi-Shell on Slopes above CC4 Liner Area: March 9, 2017**



**Photo 162: Posi-Shell on Slopes above CC4 Liner Area: March 9, 2017**



**Photo 163: Posi-Shell on Slopes above CC4 Liner Area: March 9, 2017**



**Photo 164: Posi-Shell on Slopes above CC4 Liner Area: March 9, 2017**





**Photo 165: CC4 Liner Area: March 23, 2017**



**Photo 166: CC4 Liner Area: March 23, 2017**



**Photo 167: CC4 Liner Area: March 23, 2017**



**Photo 168: CC4 Liner Area: March 23, 2017**





**Photo 169: CC4 Liner Area: March 23, 2017**



**Photo 170: CC3B CC4 Liner Area: March 23, 2017**



**Photo 171: CC4 Liner Area: March 23, 2017**



**Photo 172: CC4 Liner Area: March 23, 2017**





**Photo 173: CC4 Liner Area: March 23, 2017**



**Photo 174: CC4 Liner Area: March 23, 2017**



**Photo 175: CC4 Liner Stockpile Area: March 23, 2017**



**Photo 176: CC4 Liner Stockpile Area: March 23, 2017**





**Photo 177: CC4 Liner Stockpile Area: March 23, 2017**



**Photo 178: CC4 Liner Stockpile Area: March 23, 2017**



**Photo 179: CC4 Liner Stockpile Area: March 23, 2017**



**Photo 180: Well Drilling on CC3A Bench: March 23, 2017**





**Photo 181: Well Drilling on CC3A Bench: March 23, 2017**



**Photo 182: Westside Drainage Channel: January 17, 2017**



**Photo 183: Westside Drainage Channel: January 17, 2017**



**Photo 184: Westside Drainage Channel: January 17, 2017**





**Photo 185: Westside Drainage Channel: January 17, 2017**



**Photo 186: Westside Drainage Channel: January 17, 2017**



**Photo 187: Westside Drainage Channel: January 17, 2017**



**Photo 188: Westside Drainage Channel: January 17, 2017**





**Photo 189: Westside Drainage Channel: January 17, 2017**



**Photo 190: Westside Drainage Channel: January 17, 2017**



**Photo 191: Westside Drainage Channel: January 31, 2017**



**Photo 192: Westside Drainage Channel: January 31, 2017**





**Photo 193: Westside Drainage Channel: January 31, 2017**



**Photo 194: Westside Drainage Channel: January 31, 2017**



**Photo 195: Westside Drainage Channel into Terminal Basin:  
January 31, 2017**



**Photo 196: Westside Drainage Channel: February 23, 2017**





**Photo 197: Westside Drainage Channel: March 9, 2017**



**Photo 198: Westside Drainage Channel: March 9, 2017**



**Photo 199: Westside Drainage Channel: March 9, 2017**



**Photo 200: Westside Drainage Channel: March 9, 2017**





**Photo 201: Basin D: January 31, 2017**



**Photo 202: Basin D: January 31, 2017**



**Photo 203: Basin D: January 31, 2017**



**Photo 204: Material Storage near Basin D: January 31, 2017**





**Photo 205: Material Storage near Basin D: January 31, 2017**



**Photo 206: Material Storage near Basin D: January 31, 2017**



**Photo 207: Material Storage near Basin D: January 31, 2017**



**Photo 208: Material Storage near Basin D: March 9, 2017**





**Photo 209: Material Storage near Basin D: March 9, 2017**



**Photo 210: Material Storage near Basin D: March 9, 2017**



**Photo 211: Basin D: March 23, 2017**



**Photo 212: Basin D: March 23, 2017**





**Photo 213: Basin D: March 23, 2017**



**Photo 214: Basin D: March 23, 2017**



**Photo 215: Basin D: March 23, 2017**



**Photo 216: County Top Deck: January 17, 2017**





**Photo 217: County Top Deck: January 17, 2017**



**Photo 218: County Top Deck: January 17, 2017**



**Photo 219: County Top Deck: January 17, 2017**



**Photo 220: County Top Deck: January 31, 2017**





**Photo 221: County Top Deck: January 31, 2017**



**Photo 222: County Top Deck: January 31, 2017**



**Photo 223: County Top Deck: January 31, 2017**



**Photo 224: County Top Deck: January 31, 2017**





**Photo 225: County Top Deck: January 31, 2017**



**Photo 226: County Top Deck: January 31, 2017**



**Photo 227: County Top Deck: January 31, 2017**



**Photo 228: County Top Deck: January 31, 2017**





**Photo 229: County Top Deck: January 31, 2017**



**Photo 230: County Top Deck: January 31, 2017**



**Photo 231: County Top Deck: January 31, 2017**



**Photo 232: County Top Deck: January 31, 2017**





**Photo 233: County Top Deck: January 31, 2017**



**Photo 234: County Top Deck: January 31, 2017**



**Photo 235: County Top Deck: January 31, 2017**



**Photo 236: County Top Deck: February 23, 2017**





**Photo 237: County Top Deck: February 23, 2017**



**Photo 238: County Top Deck Water Ponding: February 23, 2017**



**Photo 239: County Top Deck: February 23, 2017**



**Photo 240: County Top Deck: February 23, 2017**





**Photo 241: Well Drilling County Top Deck: March 9, 2017**



**Photo 242: Well Drilling County Top Deck: March 9, 2017**



**Photo 243: County Top Deck: March 23, 2017**



**Photo 244: County Top Deck: March 23, 2017**





**Photo 245: County Top Deck: March 23, 2017**



**Photo 246: County Top Deck: March 23, 2017**



**Photo 247: County Top Deck: March 23, 2017**



**Photo 248: Flare 11 Site Pad: January 31, 2017**





**Photo 249: Flare 11 Site Pad: January 31, 2017**



**Photo 250: Flare 11 Site Pad: January 31, 2017**



**Photo 251: Flare 11 Site Pad: January 31, 2017**



**Photo 252: Flare 11 Site Pad: January 31, 2017**



**Photo 253: Flare 11 Site Pad: January 31, 2017**



**Photo 254: Flare 11 Site Pad: January 31, 2017**



**Photo 255: Condensate Solid Removal Building: March 23, 2017**



**Photo 256: Condensate Solid Removal Building: March 23, 2017**





**Photo 257: Condensate Solid Removal Building: March 23, 2017**



**Photo 258: Condensate Solid Removal Building: March 23, 2017**



**Photo 259: Condensate Solid Removal Building: March 23, 2017**



**Photo 260: Liquids Handling Facility at City Toe Berm: March 23, 2017**





**Photo 261: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 262: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 263: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 264: Liquids Handling Facility at City Toe Berm: March 23, 2017**





**Photo 265: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 266: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 267: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 268: Liquids Handling Facility at City Toe Berm: March 23, 2017**





**Photo 269: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 270: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 271: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 272: Liquids Handling Facility at City Toe Berm: March 23, 2017**





**Photo 273: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 274: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 275: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 276: Liquids Handling Facility at City Toe Berm: March 23, 2017**



**Photo 277: Basin B: January 17, 2017**



**Photo 278: Basin B: January 17, 2017**



**Photo 279: Basin B: January 17, 2017**



**Photo 280: Basin B: January 17, 2017**





**Photo 281: Basin B: January 17, 2017**



**Photo 282: Basin B: January 17, 2017**



**Photo 283: Basin B Native Hillsides: January 17, 2017**



**Photo 284: Basin B Native Hillsides: January 17, 2017**





**Photo 285: Basin B Native Hillside: January 17, 2017**



**Photo 286: Basin B: January 31, 2017**



**Photo 287: Basin B: January 31, 2017**



**Photo 288: Basin B: January 31, 2017**





**Photo 289: Basin B: January 31, 2017**



**Photo 290: Basin B: January 31, 2017**



**Photo 291: Basin B Native Hillsides: January 31, 2017**



**Photo 292: Basin B Native Hillsides: January 31, 2017**





**Photo 293: Basin B: February 23, 2017**



**Photo 294: Basin B: February 23, 2017**



**Photo 295: Basin B: February 23, 2017**



**Photo 296: Basin B: February 23, 2017**





**Photo 297: Basin B: February 23, 2017**



**Photo 298: Basin B: February 23, 2017**



**Photo 299: Basin B Native Hillsides: February 23, 2017**



**Photo 300: Basin B Native Hillsides: February 23, 2017**





**Photo 301: Basin B Native Hillsides: February 23, 2017**



**Photo 302: Basin B: March 23, 2017**

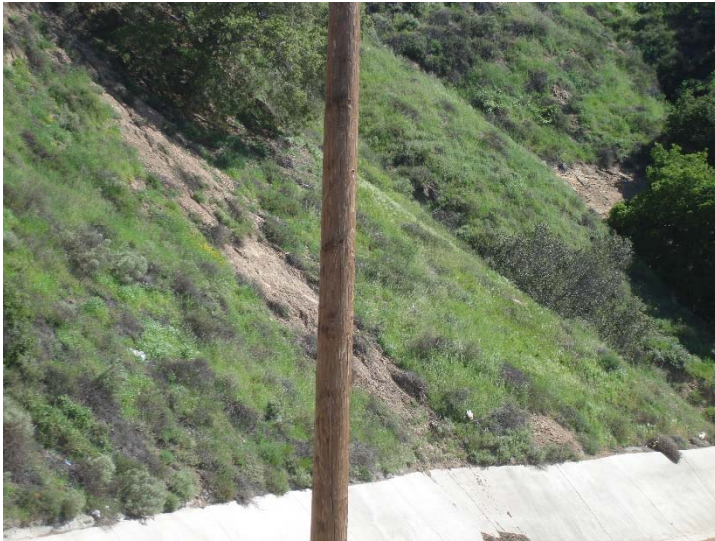


**Photo 303: Basin B: March 23, 2017**



**Photo 304: Basin B: March 23, 2017**





**Photo 305: Basin B Native Hillsides: March 23, 2017**



**Photo 306: Basin B Native Hillsides: March 23, 2017**



**Photo 307: Basin B Native Hillsides: March 23, 2017**



**Photo 308: Temporary Flare Stack Dismantle: March 23, 2017**





**Photo 309: Temporary Flare Stack Dismantle: March 23, 2017**



**Photo 310: Eastside Drainage Channel to Terminal Basin:  
March 23, 2017**



**Photo 311: Eastside Drainage Channel to Terminal Basin:  
March 23, 2017**



**Photo 312: Eastside Drainage Channel to Terminal Basin:  
March 23, 2017**





**Photo 313: Eastside Drainage Channel to Terminal Basin:  
March 23, 2017**



**Photo 314: Terminal Basin: January 17, 2017**



**Photo 315: Terminal Basin: January 17, 2017**



**Photo 316: Terminal Basin: January 17, 2017**





**Photo 317: Terminal Basin: January 17, 2017**



**Photo 318: Terminal Basin: January 17, 2017**



**Photo 319: Terminal Basin Outlet: January 17, 2017**



**Photo 320: Terminal Basin Inlet: January 31, 2017**





**Photo 321: Terminal Basin: January 31, 2017**



**Photo 322: Terminal Basin: January 31, 2017**



**Photo 323: Terminal Basin: January 31, 2017**



**Photo 324: Terminal Basin: January 31, 2017**





**Photo 325: Terminal Basin: January 31, 2017**



**Photo 326: Terminal Basin: January 31, 2017**

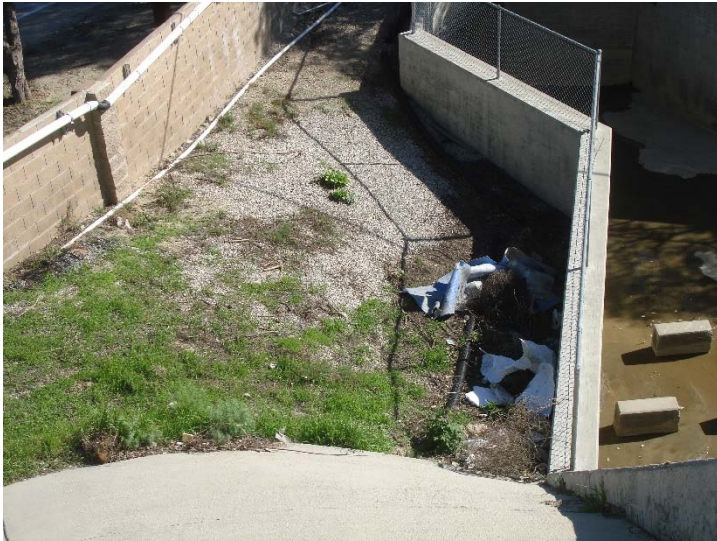


**Photo 327: Terminal Basin: January 31, 2017**



**Photo 328: Terminal Basin: January 31, 2017**





**Photo 329: Terminal Basin: January 31, 2017**



**Photo 330: Terminal Basin Outlet: January 31, 2017**



**Photo 331: Alder Liquid Storage Tanks: January 31, 2017**



**Photo 332: Alder Liquid Storage Tanks: January 31, 2017**





**Photo 333: Alder Liquid Storage Tanks: January 31, 2017**



**Photo 334: Terminal Basin: February 23, 2017**



**Photo 335: Terminal Basin: February 23, 2017**



**Photo 336: Terminal Basin: February 23, 2017**





**Photo 337: Terminal Basin: February 23, 2017**



**Photo 338: Terminal Basin: February 23, 2017**



**Photo 339: Terminal Basin Outlet: February 23, 2017**



**Photo 340: Terminal Basin: March 9, 2017**





**Photo 341: Terminal Basin: March 9, 2017**



**Photo 342: Terminal Basin: March 9, 2017**



**Photo 343: Terminal Basin: March 9, 2017**



**Photo 344: Terminal Basin: March 9, 2017**





**Photo 345: Terminal Basin: March 9, 2017**



**Photo 346: Terminal Basin: March 9, 2017**

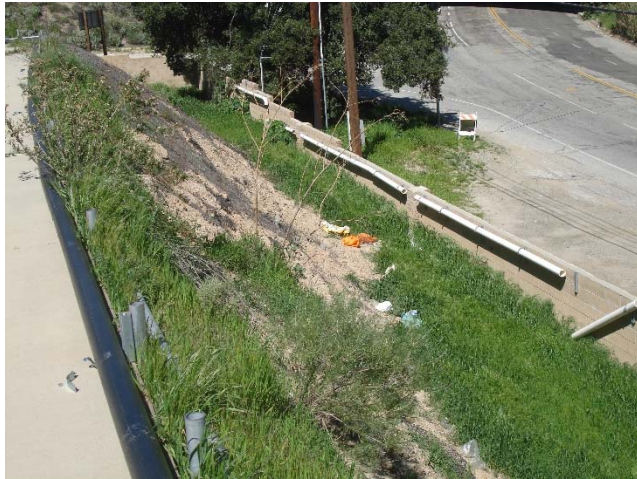


**Photo 347: Terminal Basin: March 9, 2017**



**Photo 348: Terminal Basin: March 9, 2017**





**Photo 349: Terminal Basin: March 9, 2017**



**Photo 350: Terminal Basin: March 9, 2017**



**Photo 351: Terminal Basin: Outlet March 9, 2017**



**Photo 352: Alder Tanks at Terminal Basin: March 9, 2017**





**Photo 353: Alders Tanks at Terminal Basin: March 9, 2017**



**Photo 354: Terminal Basin: March 23, 2017**



**Photo 355: Terminal Basin: March 23, 2017**



**Photo 356: Terminal Basin: March 23, 2017**





**Photo 357: Terminal Basin: March 23, 2017**



**Photo 358: Terminal Basin: March 23, 2017**



**Photo 359: Terminal Basin: March 23, 2017**



**Photo 360: Terminal Basin: March 23, 2017**





**Photo 361: Terminal Basin: March 23, 2017**



**Photo 362: Terminal Basin: March 23, 2017**



**Photo 363: Terminal Basin: March 23, 2017**



**Photo 364: Terminal Basin: March 23, 2017**





**Photo 365: Terminal Basin: March 23, 2017**



**Photo 366: Terminal Basin: March 23, 2017**



**Photo 367: Terminal Basin: March 23, 2017**



**Photo 368: Terminal Basin: March 23, 2017**





**Photo 369: Terminal Basin: March 23, 2017**



**Photo 370: Terminal Basin Outlet: March 23, 2017**



**Photo 371: Potable Water Supply Leak: January 31, 2017**



**Photo 372: Potable Water Supply Leak: January 31, 2017**





**Photo 373: Sewer Lift Pump Area: February 23, 2017**



**Photo 374: Sewer Lift Pump Area: February 23, 2017**



**Photo 375: Sewer Lift Pump Area: February 23, 2017**



**Photo 376: Seismic Recorder: February 23, 2017**





**Photo 377: Seismic Recorder: February 23, 2017**



**Photo 378: Leachate Treatment Facility: February 23, 2017**



**Photo 379: Leachate Treatment Facility: February 23, 2017**



**Photo 380: Leachate Treatment Facility: February 23, 2017**





**Photo 381: Leachate Treatment Facility: February 23, 2017**



**Photo 382: Leachate Treatment Facility: February 23, 2017**



**Photo 383: Localized Odor near Leachate Treatment Facility:  
March 23, 2017**



**Photo 384: Localized Odor near Leachate Treatment Facility:  
March 23, 2017**





**Photo 385: CC3B Basin: January 17, 2017**



**Photo 386: CC3B Basin: January 17, 2017**



**Photo 387: CC3B Basin: January 17, 2017**



**Photo 388: CC3B Basin: January 17, 2017**





**Photo 389: CC3B Basin: January 17, 2017**



**Photo 390: CC3B Basin Drainage into Terminal Basin: January 17, 2017**



**Photo 391: CC3B Temporary Basin: January 31, 2017**



**Photo 392: CC3B Temporary Basin: January 31, 2017**





**Photo 393: CC3B Temporary Basin into Terminal Basin: January 31, 2017**



**Photo 394: CC3B Temporary Basin into Terminal Basin: January 31, 2017**



**Photo 395: CC3B Temporary Basin into Terminal Basin: January 31, 2017**



**Photo 396: CC3B Basin: February 23, 2017**





**Photo 397: CC3B Basin: February 23, 2017**



**Photo 398: CC3B Basin: February 23, 2017**



**Photo 399: CC3B Basin: February 23, 2017**



**Photo 400: CC3B Basin: February 23, 2017**





**Photo 401: CC3B Basin: February 23, 2017**



**Photo 402: CC3B Basin: February 23, 2017**



**Photo 403: CC3B Basin: February 23, 2017**



**Photo 404: CC3B Basin: February 23, 2017**





**Photo 405: CC3B Temporary Basin: March 9, 2017**



**Photo 406: CC3B Temporary Basin: March 9, 2017**



**Photo 407: CC3B Temporary Basin: March 9, 2017**



**Photo 408: CC3B Temporary Basin: March 9, 2017**





**Photo 409: CC3B Temporary Solids Removal: March 23, 2017**



**Photo 411: City South Slope Slump: February 23, 2017**



**Photo 410: City South Slope Slump: February 23, 2017**



**Photo 412: City South Slope Slump: February 23, 2017**





**Photo 413: City South Slope Slump: February 23, 2017**



**Photo 414: City South Slope Slump: February 23, 2017**



**Photo 415: City South Slope Slump: February 23, 2017**



**Photo 416: City South Slope Slump: February 23, 2017**





**Photo 417: City South Slope Slump: February 23, 2017**



**Photo 419: City South Slope Slump: February 23, 2017**



**Photo 418: City South Slope Slump: February 23, 2017**

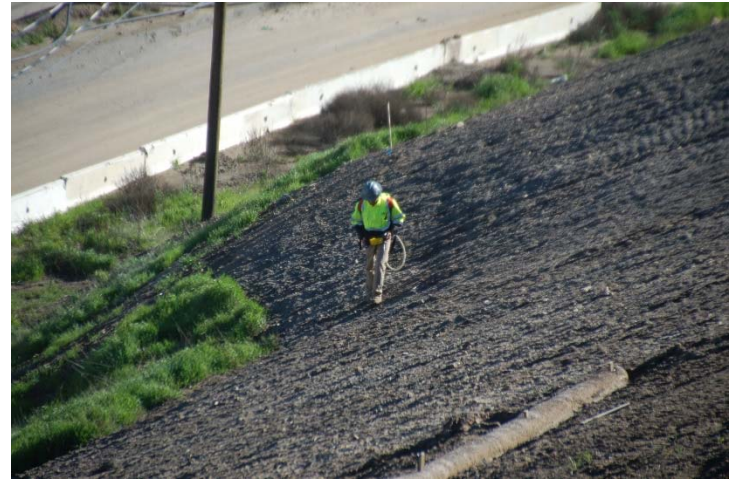


**Photo 420: City South Slope Slump: February 23, 2017**





**Photo 421: City South Slope Slump: February 23, 2017**



**Photo 422: City South Slope Slump: February 23, 2017**



**Photo 423: City South Slope Slump: February 23, 2017**



**Photo 424: City South Slope Slump: February 23, 2017**





**Photo 425: City South Slope Slump: February 23, 2017**



**Photo 426: City South Drainage Water Ponding: February 23, 2017**



**Photo 427: City South Drainage to Westside Drainage Channel: March 9, 2017**



**Photo 428: City South Drainage Channel Ponding Water: March 9, 2017**





**Photo 429: City South Slopes: March 23, 2017**



**Photo 430: City South Slopes: March 23, 2017**



**Photo 431: City South Slopes: March 23, 2017**



**Photo 432: City South Slopes Slump Area: March 23, 2017**





**Photo 433: City South Slopes Slump Area: March 23, 2017**



**Photo 434: City South Slopes Slump Area: March 23, 2017**



**Photo 435: City South Slopes Slump Area: March 23, 2017**



**Photo 436: City South Slopes Slump Area: March 23, 2017**





**Photo 437: City South Slopes Slump Area: March 23, 2017**



**Photo 438: City South Slopes Slump Area: March 23, 2017**



**Photo 439: City South Slopes near Offices: March 23, 2017**



**Photo 440: City South Slopes near Offices: March 23, 2017**





**Photo 441: City Deck C Dust Boss: January 17, 2017**



**Photo 442: City Deck C Dust Boss: January 17, 2017**



**Photo 443: City Deck C Dust Boss: January 17, 2017**



**Photo 444: City Deck C Dust Boss: January 17, 2017**



**Photo 445: City Deck C Dust Boss: January 17, 2017**



**Photo 446: City PM10 Tree Mitigation: January 17, 2017**



**Photo 447: City PM10 Tree Mitigation: January 17, 2017**



**Photo 448: City PM10 Tree Mitigation: January 17, 2017**





**Photo 449: City PM10 Tree Mitigation: January 17, 2017**



**Photo 450: City PM10 Tree Mitigation: January 17, 2017**



**Photo 451: City PM10 Tree Mitigation: January 17, 2017**



**Photo 452: City PM10 Tree Mitigation: January 17, 2017**





**Photo 453: City Sage Mitigation Deck C: January 17, 2017**



**Photo 454: City Sage Mitigation Deck C: January 17, 2017**



**Photo 455: City PM10 Tree Mitigation: January 17, 2017**



**Photo 456: City PM10 Tree Mitigation: January 17, 2017**





**Photo 457: City Sage Mitigation Deck C: January 17, 2017**



**Photo 458: City PM10 Tree Mitigation: February 23, 2017**



**Photo 459: City PM10 Tree Mitigation: February 23, 2017**



**Photo 460: City PM10 Tree Mitigation: February 23, 2017**





**Photo 461: City PM10 Tree Mitigation: February 23, 2017**



**Photo 462: City Sage Mitigation Deck C: February 23, 2017**



**Photo 463: City Sage Mitigation Deck C: February 23, 2017**



**Photo 464: City Sage Mitigation Deck C: March 9, 2017**





**Photo 465: City Sage Mitigation Deck C: March 9, 2017**



**Photo 466: City Sage Mitigation Deck C: March 9, 2017**



**Photo 467 City Sage Mitigation Deck C Boss: March 23, 2017**



**Photo 468: City Sage Mitigation Deck C Boss: March 23, 2017**





**Photo 469: City PM10 Tree Mitigation: March 23, 2017**



**Photo 470: City PM10 Tree Mitigation: March 23, 2017**



**Photo 471: City PM10 Tree Mitigation: March 23, 2017**



**Photo 472: City PM10 Tree Mitigation: March 23, 2017**





**Photo 473: City PM10 Tree Mitigation: March 23, 2017**



**Photo 474: City Sage Mitigation Deck C: March 23, 2017**



**Photo 475: City Sage Mitigation Deck C: March 23, 2017**



**Photo 476: City Sage Mitigation Deck C: March 23, 2017**





**Photo 477: City Sage Mitigation Deck B: March 23, 2017**



**Photo 478: City Sage Mitigation Deck B: March 23, 2017**



**Photo 479: Deck A Water Tank Foundation Partially Backfilled:  
February 23, 2017**



**Photo 480: Deck A Water Tank Foundation Partially Backfilled:  
February 23, 2017**





**Photo 481: Deck A Water Tank Foundation Partially Backfilled:  
February 23, 2017**



**Photo 482: Deck A Water Tank Foundation Partially Backfilled:  
February 23, 2017**

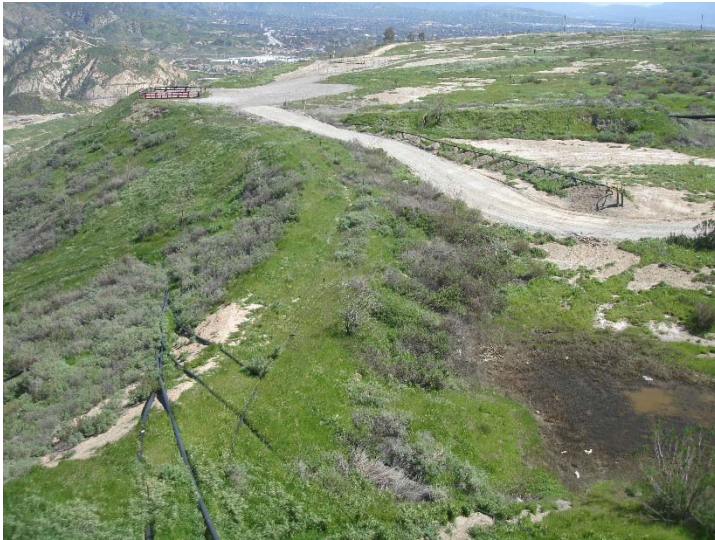


**Photo 483: Deck A Water Tank Foundation Partially Backfilled:  
February 23, 2017**



**Photo 484: City Sage Mitigation Deck A: March 9, 2017**





**Photo 485: City Sage Mitigation Deck A: March 9, 2017**



**Photo 486: City Sage Mitigation Deck A: March 9, 2017**



**Photo 487: City Sage Mitigation Deck A: March 9, 2017**



**Photo 488: City Sage Mitigation Deck A: March 9, 2017**





**Photo 489: City Sage Mitigation Deck A: March 9, 2017**



**Photo 490: City Sage Mitigation Deck A: March 9, 2017**



**Photo 491: City Sage Mitigation Deck A: March 9, 2017**



**Photo 492: City Sage Mitigation Deck A: March 9, 2017**





**Photo 493: City Sage Mitigation Deck A: March 9, 2017**



**Photo 494: City Sage Mitigation Deck A: March 9, 2017**



**Photo 495: County Sage Mitigation Area Slope Erosion: January 31, 2017**



**Photo 496: County Sage Mitigation Area Slope Erosion: January 31, 2017**





**Photo 497: County Sage Mitigation Area Slope Erosion: January 31, 2017**



**Photo 498: County Sage Mitigation Area Slope Erosion: January 31, 2017**



**Photo 499: County Sage Mitigation Area Slope Erosion: January 31, 2017**



**Photo 500: County Sage Mitigation Area Slope Erosion: January 31, 2017**





**Photo 501: County Sage Mitigation Area Slope Erosion: January 31, 2017**



**Photo 502: County Sage Mitigation Area Slope Erosion: January 31, 2017**



**Photo 503: County Sage Mitigation Area Slope Erosion: January 31, 2017**



**Photo 504: County Sage Mitigation Area Slope Erosion: January 31, 2017**





**Photo 505: County Sage Mitigation Area Slope Erosion: January 31, 2017**



**Photo 506: County Sage Mitigation Area Slope Erosion: March 9, 2017**



**Photo 507: County Sage Mitigation Area Slope Erosion: March 9, 2017**



**Photo 508: County Sage Mitigation Area Slope Erosion: March 9, 2017**





**Photo 509: County Sage Mitigation Area Slope Erosion: March 9, 2017**



**Photo 510: County Sage Mitigation Area Slope Erosion: March 9, 2017**



**Photo 511: County Sage Mitigation Area Slope Erosion: March 9, 2017**



**Photo 512: County Sage Mitigation Area Slope Erosion: March 9, 2017**





**Photo 513: County Slope near Sage Mitigation Area: March 23, 2017**



**Photo 514: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 515: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 516: Big Cone Fir Mitigation Area: January 17, 2017**





**Photo 517: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 518: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 519: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 520: Big Cone Fir Mitigation Area: January 17, 2017**





**Photo 521: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 523: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 522: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 524: Big Cone Fir Mitigation Area: January 17, 2017**





**Photo 525: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 526: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 527: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 528: Big Cone Fir Mitigation Area: January 17, 2017**

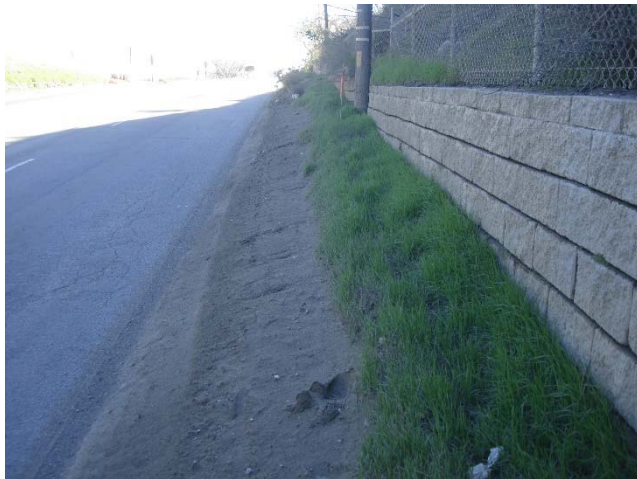




**Photo 529: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 530: Big Cone Fir Mitigation Area: January 17, 2017**



**Photo 531: Frontage Retaining Wall Slope on San Fernando Road: January 17, 2017**



**Photo 532: Frontage Retaining Wall Slope on San Fernando Road: January 17, 2017**





**Photo 533: Frontage Retaining Wall Slope on San Fernando Road:  
January 17, 2017**



**Photo 534: Frontage Retaining Wall Slope on San Fernando  
Road: January 17, 2017**



**Photo 535: Frontage Retaining Wall Slope on San Fernando Road:  
January 17, 2017**



**Photo 536: Frontage Retaining Wall Slope on San Fernando  
Road: January 17, 2017**





**Photo 537: Frontage Retaining Wall Slope on San Fernando Road:  
January 17, 2017**



**Photo 538: Frontage Retaining Wall Slope on San Fernando  
Road: January 17, 2017**



**Photo 539: Frontage Retaining Wall Slope on San Fernando Road:  
January 17, 2017**

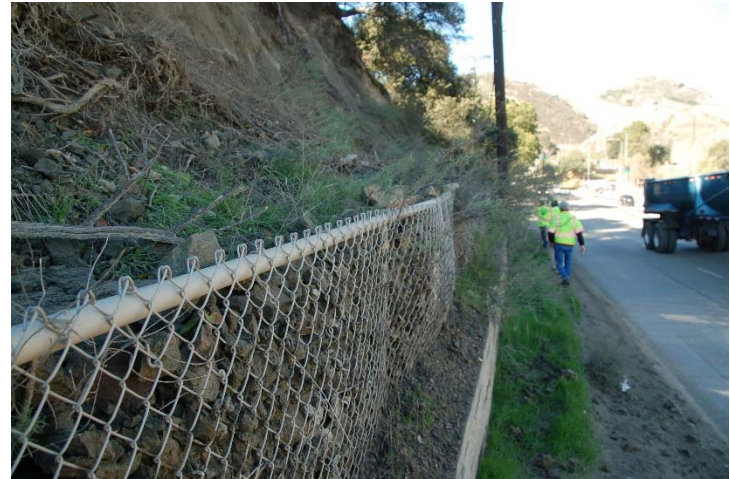


**Photo 540: Frontage Retaining Wall Slope on San Fernando  
Road: January 17, 2017**





**Photo 541: Frontage Retaining Wall Slope on San Fernando Road:  
January 17, 2017**



**Photo 542: Frontage Retaining Wall Slope on San Fernando  
Road: January 17, 2017**



**Photo 543: Frontage Retaining Wall Slope on San Fernando Road:  
January 17, 2017**



**Photo 544: Frontage Retaining Wall Slope on San Fernando  
Road: January 17, 2017**





**Photo 545: Frontage Retaining Wall Slope on San Fernando Road:  
January 17, 2017**



**Photo 546: Frontage Retaining Wall Slope on San Fernando  
Road: January 17, 2017**



**Photo 547: Frontage Retaining Wall Slope on San Fernando Road:  
January 31, 2017**



**Photo 548: Frontage Retaining Wall Slope on San Fernando  
Road: January 31, 2017**



**Photo 549: Frontage Retaining Wall Slope on San Fernando Road:  
January 31, 2017**



**Photo 550: Frontage Retaining Wall Slope on San Fernando  
Road: January 31, 2017**



**Photo 551: Frontage Retaining Wall Slope on San Fernando Road:  
January 31, 2017**



**Photo 552: Frontage Retaining Wall Slope on San Fernando Road:  
January 31, 2017**





**Photo 553: Frontage Retaining Wall Slope on San Fernando Road:  
January 31, 2017**



**Photo 554: Frontage Retaining Wall Slope on San Fernando Road:  
January 31, 2017**



**Photo 555: Frontage Retaining Wall Slope on San Fernando Road:  
January 31, 2017**



**Photo 556: Frontage Retaining Wall Slope on San Fernando Road:  
January 31, 2017**





**Photo 557: Frontage Retaining Wall Slope on San Fernando Road:  
January 31, 2017**



**Photo 558: Frontage Retaining Wall Slope on San Fernando  
Road: January 31, 2017**



**Photo 559: Frontage Retaining Wall Slope on San Fernando Road:  
January 31, 2017**



**Photo 560: Frontage Retaining Wall Slope on San Fernando  
Road: January 31, 2017**





**Photo 561: Frontage Retaining Wall Slope on San Fernando Road:  
January 31, 2017**



**Photo 562: Frontage Retaining Wall Slope on San Fernando  
Road: January 31, 2017**



**Photo 563: Frontage Retaining Wall Slope on San Fernando Road:  
January 31, 2017**



**Photo 564: Frontage Retaining Wall Slope on San Fernando  
Road: January 31, 2017**





**Photo 565: Frontage Retaining Wall & Slope on San Fernando Road: February 23, 2017**



**Photo 566: Frontage Retaining Wall & Slope on San Fernando Road: February 23, 2017**



**Photo 567: Frontage Retaining Wall & Slope on San Fernando Road: February 23, 2017**



**Photo 568: Frontage Retaining Wall & Slope on San Fernando Road: February 23, 2017**





**Photo 569: Frontage Retaining Wall & Slope on San Fernando Road: February 23, 2017**



**Photo 570: Frontage Retaining Wall & Slope on San Fernando Road: February 23, 2017**



**Photo 571: Frontage Retaining Wall & Slope on San Fernando Road: February 23, 2017**



**Photo 572: Frontage Retaining Wall & Slope on San Fernando Road: February 23, 2017**





**Photo 573: Frontage Retaining Wall & Slope on San Fernando Road: February 23, 2017**



**Photo 574: Frontage Retaining Wall & Slope on San Fernando Road: February 23, 2017**



**Photo 575: Frontage Retaining Wall & Slope on San Fernando Road: February 23, 2017**



**Photo 576: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**





**Photo 577: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**



**Photo 578: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**



**Photo 579: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**



**Photo 580: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**





**Photo 581: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**



**Photo 582: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**



**Photo 583: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**



**Photo 584: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**





**Photo 585: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**



**Photo 586: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**



**Photo 587: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**



**Photo 588: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**





**Photo 589: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**



**Photo 590: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**



**Photo 591: Frontage Retaining Wall & Slope on San Fernando Road: March 23, 2017**



**Photo 592: Rancho Cascades Illegal Dumping: January 17, 2017**





**Photo 593: Sierra High I-14 Dumping: January 17, 2017**



**Photo 594: Sierra High I-14 Dumping: January 17, 2017**



**Photo 595: Balboa Blvd Clean at Woodley Ave: March 9, 2017**



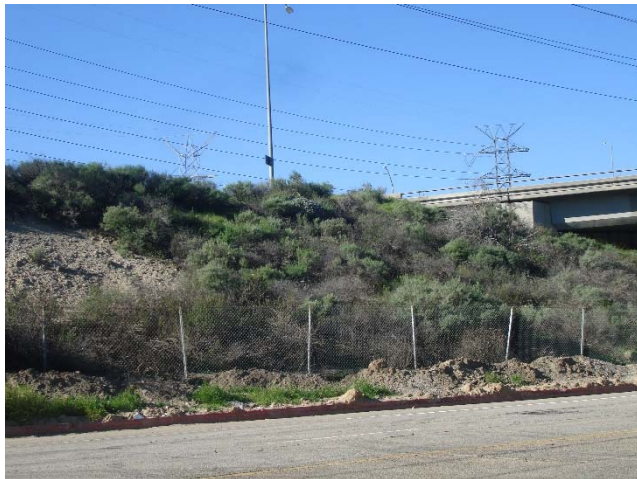
**Photo 596: Balboa Blvd Clean at Woodley Ave: March 9, 2017**



**Photo 597: Balboa Blvd Clean at Woodley Ave: March 9, 2017**



**Photo 598: San Fernando Road near I-5 Overpass: March 9, 2017**



**Photo 599: San Fernando Road near I-5 Overpass: March 9, 2017**



**Photo 600: San Fernando Road near I-5 Overpass: March 9, 2017**





**Photo 601: San Fernando Road near I-5 Overpass: March 9, 2017**



**Photo 602: Sierra Highway I-14 Overpass: March 9, 2017**



**Photo 603: Sierra Highway I-14 Overpass: March 9, 2017**



**Photo 604: Odorous Truck: January 17, 2017**





**Photo 605: Odorous Truck: January 17, 2017**



**Photo 606: Localized Odor near Sewer Lift Pump: January 31, 2017**



**Photo 607: Localized Odor near Sewer Lift Pump: March 23, 2017**



**Photo 608: Localized Odor near Sewer Lift Pump: March 23, 2017**





**Photo 609: Localized Odor near Sewer Lift Pump: March 23, 2017**



**Photo 610: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 611: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 612: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 613: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 614: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 615: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 616: Site Working Area CC3B 900-1100am: January 17, 2017**





**Photo 617: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 618: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 619: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 620: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 621: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 622: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 623: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 624: Site Working Area CC3B 900-1100am: January 17, 2017**





**Photo 625: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 626: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 627: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 628: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 629: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 630: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 631: Site Working Area CC3B 900-1100am: January 17, 2017**



**Photo 632: County Site Working Area: January 31, 2017**





**Photo 633: County Site Working Area: January 31, 2017**



**Photo 634: County Site Working Area: January 31, 2017**



**Photo 635: County Site Working Area: January 31, 2017**



**Photo 636: County Site Working Area: January 31, 2017**



**Photo 637: County Site Working Area: January 31, 2017**



**Photo 638: County Site Working Area: January 31, 2017**



**Photo 639: County Site Working Area: January 31, 2017**



**Photo 640: Site Working Area CC3B 1100am: January 31, 2017**





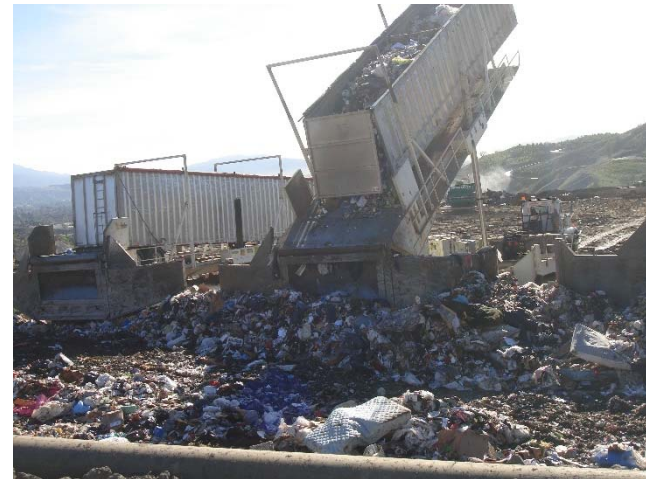
**Photo 641: Site Working Area CC3B 1100am: January 31, 2017**



**Photo 642: Site Working Area CC3B 1100am: January 31, 2017**



**Photo 643: Site Working Area CC3B 1100am: January 31, 2017**



**Photo 644: Site Working Area CC3B 1100am: January 31, 2017**



**Photo 645: Site Working Area CC3B 1100am: January 31, 2017**



**Photo 646: Site Working Area CC3B 1100am: January 31, 2017**



**Photo 647: Site Working Area CC3B: February 23, 2017**



**Photo 648: Site Working Area CC3B: February 23, 2017**





**Photo 649: Site Working Area CC3B: February 23, 2017**



**Photo 650: Site Working Area CC3B: February 23, 2017**



**Photo 651: Site Working Area CC3B: February 23, 2017**



**Photo 652: Site Working Area CC3B: February 23, 2017**





**Photo 653: Site Working Area County Top Deck: February 23, 2017**



**Photo 654: Site Working Area County Top Deck: February 23, 2017**



**Photo 655: Site Working Area County Top Deck: February 23, 2017**



**Photo 656: Site Working Area County Top Deck: February 23, 2017**





**Photo 657: Site Working Area County Top Deck: February 23, 2017**



**Photo 658: Site Working Area County Top Deck: February 23, 2017**



**Photo 659: Site Working Area County Top Deck: February 23, 2017**



**Photo 660: Site Working Area County Top Deck: February 23, 2017**





**Photo 661: Site Working Area County Top Deck: February 23, 2017**



**Photo 662: Site Working Area County Top Deck: February 23, 2017**



**Photo 663: Site Working Area County Top Deck: February 23, 2017**



**Photo 664: Site Working Area County Top Deck: February 23, 2017**





**Photo 665: Site Working Area County Top Deck: February 23, 2017**



**Photo 666: Site Working Area County Top Deck: February 23, 2017**



**Photo 667: Site Working Area CC3B 1030am: March 9, 2017**



**Photo 668: Site Working Area CC3B 1030am: March 9, 2017**





**Photo 669: Site Working Area CC3B 1030am: March 9, 2017**



**Photo 670: Site Working Area CC3B 1030am: March 9, 2017**



**Photo 671: Site Working Area CC3B 1030am: March 9, 2017**



**Photo 672: Site Working Area CC3B 1030am: March 9, 2017**





**Photo 673: Site Working Area CC3B 1030am: March 9, 2017**



**Photo 674: Site Working Area CC3B 1030am: March 9, 2017**



**Photo 675: Site Working Area CC3B 1030am: March 9, 2017**



**Photo 676: Site Working Area CC3B 100pm: March 9, 2017**



**Photo 677: Site Working Area CC3B 100pm: March 9, 2017**



**Photo 678: Site Working Area CC3B 100pm: March 9, 2017**



**Photo 679: Site Working Area CC3B 100pm: March 9, 2017**



**Photo 680: Site Working Area CC3B 100pm: March 9, 2017**





**Photo 681: Site Working Area County Top Deck: March 9, 2017**



**Photo 682: Site Working Area County Top Deck: March 9, 2017**



**Photo 683: Site Working Area County Top Deck: March 9, 2017**



**Photo 684: Site Working Area County Top Deck: March 9, 2017**



**Photo 685: Site Working Area County Top Deck: March 9, 2017**



**Photo 686: Site Working Area County Top Deck: March 9, 2017**



**Photo 687: Site Bird Control Falcon: March 9, 2017**



**Photo 688: Site Working Area 1200pm: March 23, 2017**





**Photo 689: Site Working Area 1200pm: March 23, 2017**



**Photo 690: Site Working Area 1200pm: March 23, 2017**



**Photo 691: Site Working Area 1200pm: March 23, 2017**



**Photo 692: Site Working Area 1200pm: March 23, 2017**



**Photo 693: Site Working Area 1200pm: March 23, 2017**



**Photo 694: Site Working Area 1200pm: March 23, 2017**



**Photo 695: Site Working Area 1200pm: March 23, 2017**



**Photo 696: Site Working Area 1200pm: March 23, 2017**





**Photo 697: Site Working Area 1200pm: March 23, 2017**



**Photo 698: Site Working Area 1200pm: March 23, 2017**



**Photo 699: Site Working Area 1200pm: March 23, 2017**



**Photo 700: Site Working Area 1200pm: March 23, 2017**





**Photo 701: Site Working Area 1200pm: March 23, 2017**



**Photo 702: Site Working Area 1200pm: March 23, 2017**



**Photo 703: Site Working Area 1200pm: March 23, 2017**



**Photo 704: Site Working Area 1200pm: March 23, 2017**





**Photo 705: Site Working Area 1200pm: March 23, 2017**



**Photo 706: Site Working Area 1200pm: March 23, 2017**



**Photo 707: Site Working Area 1200pm: March 23, 2017**



**Photo 708: Site Working Area 1200pm: March 23, 2017**





**Photo 709: Site Working Area 1200pm: March 23, 2017**



**Photo 710: Site Working Area 1200pm: March 23, 2017**



**Photo 711: Site Working Area 1200pm: March 23, 2017**



**Photo 712: Site Working Area 1200pm: March 23, 2017**





**Photo 713: Site Working Area 1200pm: March 23, 2017**



**Photo 714: Site Working Area 1200pm: March 23, 2017**



**Photo 715: Site Working Area 1200pm: March 23, 2017**



**Photo 716: Site Working Area 1200pm: March 23, 2017**





**Photo 717: Site Working Area 1200pm: March 23, 2017**



**Photo 718: Site Working Area 1200pm: March 23, 2017**



**Photo 719: Site Working Area 1200pm: March 23, 2017**



**Photo 720: Site Working Area 1200pm: March 23, 2017**





**Photo 721: Site Working Area 1200pm: March 23, 2017**



**Photo 722: Site: January 17, 2017**



**Photo 723: Site: January 17, 2017**



**Photo 724: Site: January 17, 2017**





**Photo 725: Site: January 17, 2017**



**Photo 726: Site: January 17, 2017**



**Photo 727: Site: January 17, 2017**



**Photo 728: Site: January 17, 2017**





**Photo 729: Site: January 17, 2017**



**Photo 730: Site: December 14, 2016**



**Photo 731: Site: December 14, 2016**



**Photo 732: Site: January 17, 2017**





**Photo 733: Site: January 17, 2017**



**Photo 734: Site: January 17, 2017**



**Photo 735: Site: January 17, 2017**



**Photo 736: Site: January 17, 2017**





**Photo 737: Site: January 17, 2017**



**Photo 738: Site: January 17, 2017**



**Photo 739: Site: January 17, 2017**



**Photo 740: Site: January 31, 2017**



**Photo 741: Site: January 31, 2017**



**Photo 742: Site: January 31, 2017**



**Photo 743: Site: January 31, 2017**



**Photo 744: Site: January 31, 2017**





**Photo 745: Site: January 31, 2017**



**Photo 746: Site: January 31, 2017**



**Photo 747: Site: January 31, 2017**



**Photo 748: Site: January 31, 2017**



**Photo 749: Site: January 31, 2017**



**Photo 750: Site: January 31, 2017**



**Photo 751: Site: January 31, 2017**



**Photo 752: Site: January 31, 2017**





**Photo 753: Site: January 31, 2017**



**Photo 754: Site: January 31, 2017**



**Photo 755: Site: January 31, 2017**



**Photo 756: Site: January 31, 2017**



**Photo 757: Site: January 31, 2017**



**Photo 758: Site: January 31, 2017**



**Photo 759: Site: January 31, 2017**



**Photo 760: Site: January 31, 2017**





**Photo 761: Site: January 31, 2017**



**Photo 762: Site: January 31, 2017**



**Photo 763: Site: February 23, 2017**



**Photo 764: Site: February 23, 2017**



**Photo 765: Site: February 23, 2017**



**Photo 766: Site: February 23, 2017**



**Photo 767: Site: February 23, 2017**



**Photo 768: Site: February 23, 2017**





**Photo 769: Site: February 23, 2017**



**Photo 770: Site: February 23, 2017**



**Photo 771: Site: February 23, 2017**



**Photo 772: Site: February 23, 2017**





**Photo 773: Site: February 23, 2017**



**Photo 774: Site: February 23, 2017**



**Photo 775: Site: February 23, 2017**



**Photo 776: Site: February 23, 2017**





**Photo 777: Site: February 23, 2017**



**Photo 778: Site: February 23, 2017**



**Photo 779: Site: March 9, 2017**



**Photo 780: Site: March 9, 2017**



**Photo 781: Site: March 9, 2017**



**Photo 782: Site: March 9, 2017**



**Photo 783: Site: March 9, 2017**



**Photo 784: Site: March 9, 2017**





**Photo 785: Site: March 9, 2017**



**Photo 786: Site: March 9, 2017**



**Photo 787: Site: March 9, 2017**



**Photo 788: Site: March 9, 2017**



**Photo 789: Site: March 9, 2017**



**Photo 790: Site: March 23, 2017**

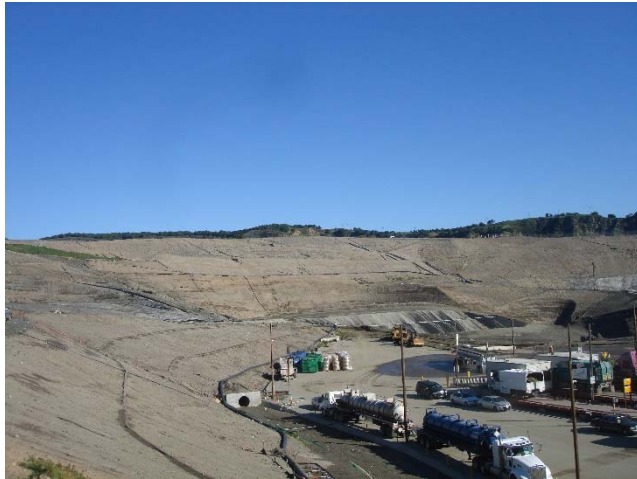


**Photo 791: Site: March 23, 2017**



**Photo 792: Site: March 23, 2017**





**Photo 793: Site: March 23, 2017**



**Photo 794: Site: March 23, 2017**



**Photo 795: Site: March 23, 2017**



**Photo 796: Site: March 23, 2017**



**Photo 797: Site: March 23, 2017**



**Photo 798: Site: March 23, 2017**



**Photo 799: Site: March 23, 2017**



**Photo 800: Site: March 23, 2017**





**Photo 801: Site: March 23, 2017**



**Photo 802: Site: March 23, 2017**



**Photo 803: Site: March 23, 2017**



**Photo 804: Site: March 23, 2017**

# Appendix III

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

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### **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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# January Site Visits

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## January 17, 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: 1/17/17
Site Conditions: Clear and sunny, 50-70°F, 5-20 MPH winds	
<b>SITE LOG</b>	
<p>Republic Site Manager - Rob Sherman</p> <p>Drove the Granada Hills neighborhood and school area from 6:50 to 7:30 a.m. Did not detect any landfill odors around the school nor in the immediate housing area adjacent to the school. I did detect a background or faint odor coming from the landfill at the following locations: Balboa and Woodley at 6:50; End of Constable Avenue at 7:00; Timber Ridge and Canyon Ridge at 7:10; Constable and Canyon Ridge at 7:15; Balboa and Orozco at 7:20.</p> <p>Met with Mike Lindsay (UltraSystems) and Tarik Hadj-Hamou (SLR) and signed in and proceeded to monitor the site:</p> <ul style="list-style-type: none"> <li>• Drove the neighborhood and the only location that still had a faint odor was Timber Ridge at Canyon Ridge (approximately 8:50 a.m.)</li> <li>• Site surface water control wattles and ditches adjacent to the office facilities had only minor erosion from the recent rain events.</li> <li>• Cell CC-3B slopes had significant erosion on one of the dirt(unlined)drainage benches. Any slope erosion were in the areas where straw wattles were not yet in place.</li> <li>• CC-3A and CC-3B were active disposal areas, with approximately 60% of the ADC covered in Cell CC-3B at 9:30 a.m. Strong liquids odors were detected coming from the Cell CC-3A and CC-3B area. There was no rainwater ponding observed on waste-filled areas.</li> <li>• Deck C sage mitigation was doing well and greening-up from the rains and cooler temperatures. The PM-10 oak trees were also showing new growth.</li> </ul> <p>Returned to the office, met Gabriel Esparza and Vu Truong (LACDPW). Returned to site monitoring with County staff joining us.</p> <ul style="list-style-type: none"> <li>• Drove to Cell CC-3B and observed new Buffalo Monsoon misters in operation. The operating face odors were being controlled and kept localized.</li> <li>• Observed the westside drainage channel. The gabions had a significant amount of sediment behind each one.</li> <li>• Sediment from the Old City North slopes and Cell CC-3B slopes filled the temporary dirt basin below Cell CC-3B with sediment blocking gravity drainage into the Terminal Basin. A pump was being used to drain the basin.</li> <li>• A Cesar R Trucking truck and dump bed type trailer was parked near the scales and we detected an odorous load. Approximately 20 minutes later, a different Cesar R Trucking similar truck was dumping an odorous load at Cell CC-3B.</li> </ul>	



Page 2 of 2, 1/17/17:

- CC-4 had minor erosion gullies in the operations layer. A liquids-type odor was coming from the top of the CC-3A slope. The geosynthetics on the side slopes appear to have no damage. Construction of a surface water control system and access road to the future fill area was ongoing. No waste has deposited in this cell. The geotextile allowable exposure time limit to sunlight should be monitored and compliant with manufacturer's recommendation.
- Drilling was observed on the top of Cell CC-3A at the edge of the slope facing Cell CC-4. Landfill drilling liquids were being stored in an open pond and vacuum pumped away. This appears to be the odor source detected in Cell CC-4 and on the Old City Deck C.
- Basin B had rainwater ponding at the outlet risers. Sediment was seen in approximately 40% of the basin. Wind-blown litter was in the native hillsides.
- The secondary access road from the Flare 11 pad was complete and the road from it to the I-5 was travelable.
- Observed the Big-Cone Fir mitigation trees and they were doing well with the cooler weather and rain. A current status report on the number, age, and size should be done.
- Basin A had a significant amount of sediment and standing water. The outlet risers were not draining the basin. There was soil that sloughed into the basin from the adjacent graded hillside. The outlet channel 12" corrugated pipes were blocked by trash and sediment.
- At the retaining wall on San Fernando Road, soil has sloughed from the hillside and tree roots and soil was pushing out the fence in some areas and loading the wall.
- The Terminal Basin had a significant amount of sediment and standing water. There was minimal drainage out of the basin. There was approximate 5 feet of freeboard to the top of the outlet risers. Litter was seen on the front basin exterior wall.

Flare Operating Conditions:

- Flare 1 - 1696°F, 1738 SCFM, -57.58" vacuum
- Flare 3 - approximately 2000 SCFM
- Flare 9 - shut down
- Flare 10 - 1647°F, 4988 SCFM, -63" vacuum, 37" out, 49.9% CH<sub>4</sub>, 2.42% O<sub>2</sub>

The gas-to-energy plant was shut down for repairs to an electrical short.


FURTHER REVIEW NEEDED

COMMENTS

Signed:



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 01-17-2017      Tuesday
Site Conditions: Clear, 49–64 °F, 5–22 mph, 42% RH	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office and with Rob Sherman and Tyson Ross (Republic).</li> <li>2. Observed Cell CC-3B working face from fire road above main haul road.</li> <li>3. Flare 1 is operating at 1749 scfm, 1698 °F. Gas sample measured at 38 % Vol. CH<sub>4</sub>, 1.2 % Vol. O<sub>2</sub>, 64 ppm H<sub>2</sub>S and 36 ppm CO. Gas inlet temperature is at 81 °F.</li> <li>4. City Deck C sage mitigation area is growing well with recent rains.</li> <li>5. Strong landfill odors are present at City Deck C at 8:40 am.</li> <li>6. Three water misters (Dust Boss) are in operation above City Deck C for odor control.</li> <li>7. PM-10 berm is growing well, with oak trees showing signs of new growth.</li> <li>8. Faint landfill odors are present at Timber Ridge in adjacent neighborhood at 8:55 am.</li> <li>9. No odors detected at Van Gogh Street School at 9:00 am.</li> <li>10. Talked with Larry Israel (AQMD) at school site.</li> <li>11. Met with Gabriel Esparza and Vu Truong (LACDPW).</li> <li>12. Observed Cell CC-3B working area to be in good order, with tippers and water misters in operation. ADC is 90% covered by new trash at 9:45 AM.</li> <li>13. Cell CC-3B working area is in good order, with two tippers in operation. ADC is 60% covered by new trash at 9:55 AM.</li> <li>14. Water trucks are applying water throughout site for dust control.</li> <li>15. Sediment Basin B has wind-blown trash and debris at back, north slope of basin.</li> <li>16. Drove up the new secondary access road by Flare 11 site, and observed overall landfill operations from weather station at top of road.</li> <li>17. Big cone fir mitigation area is growing well, with dark green color present at most trees.</li> <li>18. Flare 9 is offline.</li> <li>19. Flare 10 is operating at 4991 scfm, 1651 °F. Gas sample measured at 51 % Vol. CH<sub>4</sub>, 2.1 % Vol. O<sub>2</sub>, 83 ppm H<sub>2</sub>S and 282 ppm CO. Blowers 2, 3 and 4 are in operations.</li> <li>20. Gas-to-energy plant is offline due to an electrical short.</li> <li>21. Sediment Basin D is in good order.</li> <li>22. Sediment Basin A has some standing water from recent rains, and is in good condition.</li> </ol>	
<b>FURTHER REVIEW NEEDED</b>	
<ol style="list-style-type: none"> <li>1. Eliminate landfill odors by City Deck C.</li> <li>2. Remove wind-blown trash at Sediment Basin B.</li> </ol>	
Signed: 	





### SUNSHINE CANYON LANDFILL

#### MITIGATION MONITORING SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 11
Discipline: Civil – Geotechnical and Hydrology	Date: January 17, 2017
Site Conditions: Sunny	
<b>SITE LOG</b>	
7:00- Met with UltraSystems team members Jim Aidukas and Mike Lindsay, sign-up in main office, prepare tour of landfill	
7:30- 9:30 tour landfill and neighborhood for odors and illegally dumped waste.	
9:30 meet with LA County DPW staff: Gabriel Esparza and Vu Truong	
9:30 - 1:30 landfill tour Observed the following areas:	
<ul style="list-style-type: none"> <li>• Cell CC-4 because of concerns for damage following rain events</li> <li>• Placement of waste at Cell CC-3B and on top of Cell CC-3A</li> <li>• Erosion protection</li> <li>• Drainage systems</li> <li>• Secondary exit road by Flare 10 and crest road</li> <li>• Landfill for geotechnical and hydrological issues</li> </ul>	
<b>Cell CC4</b> <ul style="list-style-type: none"> <li>• Operation layer placed on base of cell show minor erosion gullies (Photo 1) that could be repaired easily. The underlying geosynthetics were not exposed.</li> <li>• The geosynthetics on the side slope shows no damage from rainstorm. Some soil from upper area was deposited by mud laden water flowing onto the geosynthetics from the flat area above the slope (Photo 2)</li> <li>• Construction was ongoing for the main access ramp and the north corner of the cell (Photo 3)</li> <li>• The upper geotextile on the side slope has been exposed to sunlight for a month and its allowable exposure time as recommended by the manufacturer should be checked to verify conformance with Technical Specifications</li> </ul>	
<b>Waste Placement</b> <ul style="list-style-type: none"> <li>• Cell CC-3B <ul style="list-style-type: none"> <li>– Waste was placed in the cell</li> <li>– Waste was placed directly on top of the plastic filter alternate daily cover (ADC) which was visible but does not appear to be punctured or torn under weight of new waste (Photo 4)</li> <li>– No civil or geotechnical issues namely water ponding were observed</li> </ul> </li> <li>• Top of Cell CC-3A <ul style="list-style-type: none"> <li>– Two transfer station truck tippers were active (Photo 5)</li> <li>– No civil or geotechnical issues namely water ponding were observed</li> </ul> </li> </ul>	
<b>Erosion Protection</b> <ul style="list-style-type: none"> <li>• All systems installed at site are in good shape</li> <li>• Grass is growing through the erosion protection mesh</li> <li>• The slopes of the new drainage channel form the spillway of the new temporary unlined earthen</li> </ul>	

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basin near the bottom of the canyon before the final sediment basin were not protected and suffered some damage during the rainstorm. Of concern is the erosion gullies along the concrete V-ditch down the slope (Photo 6).
<p>Drainage system</p> <ul style="list-style-type: none"> <li>• New temporary unlined earthen basin               <ul style="list-style-type: none"> <li>– basin is full of soil (Photo 7)</li> <li>– a pump installed in basin and will be used to remove water and direct it to a series of cascading Baker tank (Photo 8) including a separator at the end (bottom left corner of Photo 8)</li> </ul> </li> <li>• A downchute on slope of City landfill ruptured during rainstorm and was undergoing repair (Photo 9)</li> <li>• All the channels are clean of debris and sediments</li> <li>• Gabion mats installed in the channel along the access road did a great job retaining fines, minimizing the load in the Terminal basin (Photo 10)</li> <li>• Terminal Basin               <ul style="list-style-type: none"> <li>– The basin is partially full with sediments.</li> <li>– The row of gabions midway in the basin have worked well in slowing down water and retaining sediment ahead of the decant towers. Sediment rose up to second row of gabions along the southern wall of the basin (Photo 11)</li> <li>– We noted the following:                   <ul style="list-style-type: none"> <li>▪ water level near decant tower is approximately 3 f below top (photo 12).</li> <li>▪ low flow out of the basin (Photo 13)</li> </ul> </li> <li>– It is our understanding based on conversation with Republics staff that this high level is not indicative of high sediment load on that side of the gabions but rather the high level is due to the fact that the lower portion of the decant tower was modified in the summer to no let water flow at low level. A skimmer system will eventually be installed connected to the bottom of the towers.</li> </ul> </li> <li>• Basin A               <ul style="list-style-type: none"> <li>– Soil sloughed on the eastern edge where the gas line to Flare 3 passes (Photo 14)</li> <li>– the volume of soil that fell in does not impact adversely the capacity of the basin</li> <li>– some debris has accumulated against the two drain pipes under the temporary access road across the concrete ditch (Photo 15).</li> </ul> </li> <li>• Basin D               <ul style="list-style-type: none"> <li>– Clean</li> <li>– All channels into the basin are clean and open.</li> </ul> </li> <li>• Basin B               <ul style="list-style-type: none"> <li>– A minimum accumulation of sediment at decant towers but not enough to reduce the storage volume</li> <li>– some refuse in far corner</li> </ul> </li> </ul>
<p>Overall landfill inspection.</p> <ul style="list-style-type: none"> <li>• No slope stability issues were noted during the site tour</li> <li>• Additional soil has accumulated against the fence on top of the retaining wall outside the property on San Fernando road due to sloughing off soil (Photo 16)</li> </ul>
1:00 – 1:15 Close-out meeting with Republic Staff
<b>FURTHER REVIEW NEEDED</b>



PAGE 3 OF 11



- Capacity of terminal basin to let water flow out before the level reaches the spillway in case of large storm

COMMENTS

- Republic geotechnical consultant has looked at the retaining wall along San Fernando Road and it is the understanding from all stakeholders that work cannot commence till the dry season.

Signed:



Photo 1: Base of Cell CC4 Protect by operation layer – Some erosion gullies



Photo 2: Geosynthetics on slope of CC4 – no damage visible





Photo 3: Construction at Cell CC4



Photo 4: Placement of waste at CC3B



Photo 5: Placement of waste on top of cell CC3A



Photo 6: Erosion on slope of new temporary unlined earthen basin at toe of landfill





Photo 7: New temporary unlined earthen basin at toe of landfill filled up with sediment



Photo 8: Storage tanks to store stormwater from new temporary unlined earthen basin



Photo 9: Ruptured downchute undergoing repair



Photo 10: Gabions in main channel along access road



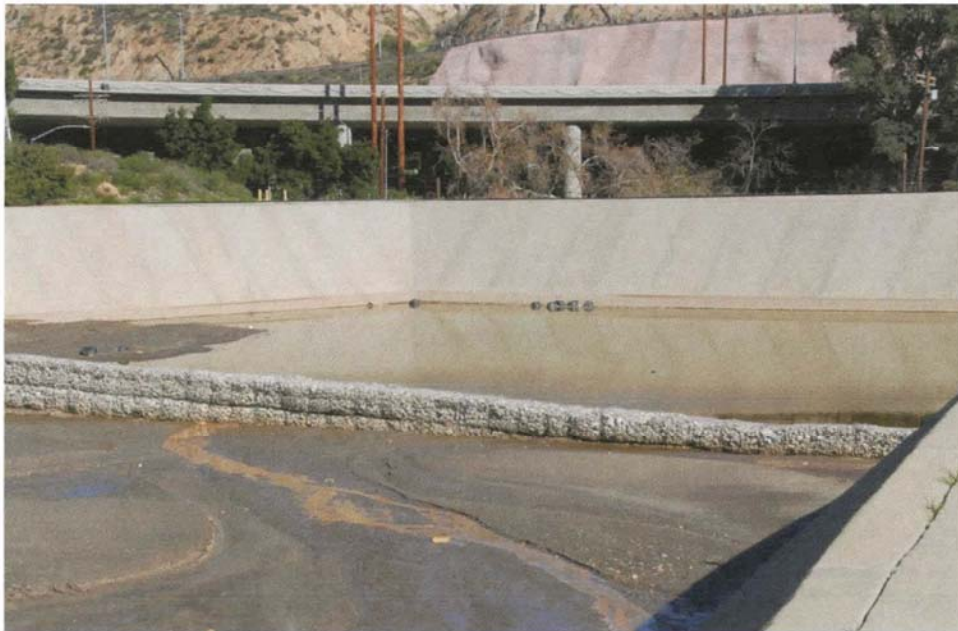


Photo 11: Sediment against gabions in terminal basin



Photo 12: Water level against decant towers

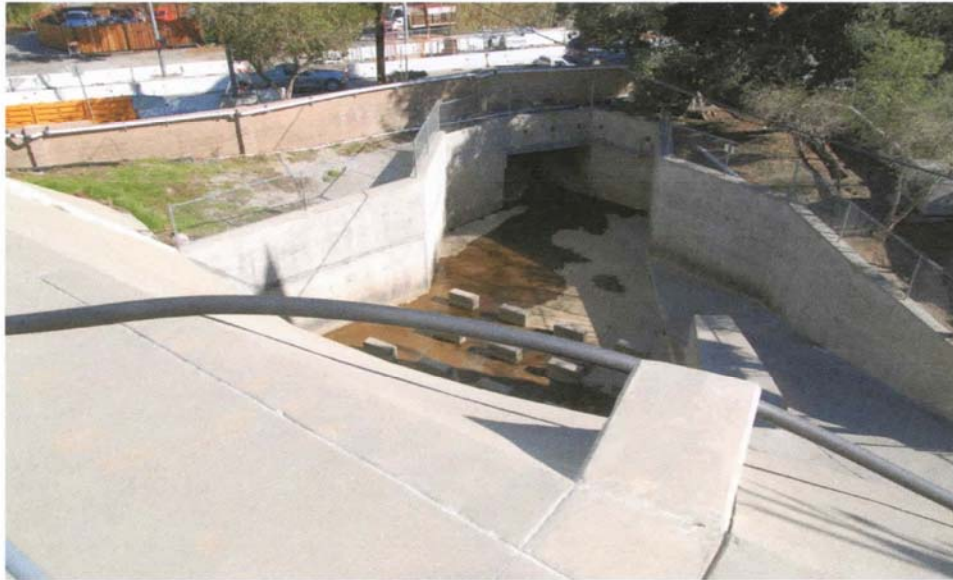


Figure 13: Low water flow out of the terminal basin



Figure 14: Sloughed soil at Basin A





Figure 15: Debris in ditch outside Basin A



Figure 16: Soil against fence on retaining wall on San Fernando Road

**January 31, 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: 1/31/17
Site Conditions: Clear and sunny, 55-70°F, 0-15 MPH winds	
<b>SITE LOG</b>	
<p>Republic Site Manager - Rob Sherman</p> <p>Drove the Granada Hills neighborhood and school area from 6:45 to 8:20 a.m. and detected a faint to distinct landfill liquids-type odor at the following locations: Balboa and Knollwood at 6:45; Balboa and Woodley at 7:00; Westbury and Balboa at 7:15; Jimeno and Nanette at 7:20.</p> <p>Mike Lindsay (UltraSystems) joined me at 7:30 and we continued to monitor the neighborhood and detected odors at: Orozco and Titian at 7:30; El Oro and Resnick at 7:55; Nugent and Westbury at 8:05; Westbury and Jolette at 8:10; Orozco and Sesnon at 8:20.</p> <p>No landfill odor was detected at the following locations: Constable and Canyon Ridge to the dead end of Constable at 7:45; Timber Ridge and Canyon Ridge at 7:50; Frost School at 8:00.</p> <p>Mike Lindsay and I signed in at the office. We checked in with Patti Costa and Ricky Dhupar and relayed our findings of the odor in the neighborhood. We checked in with the LEA and discussed current activities at the landfill. We then proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• There were two active fill areas: CC-3B and County top deck Phase IV-3. Both areas were using ADC and localized odors were minimal and limited to active waste disposal.</li> <li>• Observed well drilling on the top deck of CC-3A. Localized odors appeared to be controlled. New water Buffalo misters were being used to control any localized odors.</li> <li>• The slopes in the Old City South and Old City North were green with vegetation from the recent rain events. Slope erosion was minimal where established vegetation was growing.</li> <li>• Slopes with straw wattles adequately controlled erosion. Where not used, deep gullies were observed. Wattles were completely loaded with silt in some areas and may not continue to be effective in controlling erosion.</li> <li>• Cell CC-4 was being worked on making final liner tie-ins, repairing rain erosion and improving the access road.</li> <li>• There were deep gullies on the County south facing slopes into Cell CC-4. Also the slopes from CC-3A facing into CC-4 had deep rainwater ruts and the slope was wet and odorous at a location halfway to the top deck of CC-3A.</li> <li>• Distinct odors were detected near wells CGW 732 and CTC 62.</li> <li>• Posi-Shell was observed being applied to a test area on CC-3A slopes facing Cell CC-4.</li> <li>• Observed a significant amount of sediment in Basin A with soil sloughing from the prior adjacent Edison pole grading. The outlet risers were not draining rainwater and there was a large area of ponding rainwater. The outlet channel is blocked with sediment and trash. The native hillside had wind-blown trash. The westside channel inlet was blocked with tumbleweed.</li> </ul>	

Page 2 of 2, 1/31/17:

- The County sage mitigation slopes had deep erosion ruts from uncontrolled rainwater. No new growth was observed.
- Scrapers were observed moving cover dirt to working areas, creating dust on the dry roadway.
- Basin D was observed and was free of sediment and ponding water.
- The material storage area had waste material being stored that should be disposed of.
- Condensate was being held in plastic tanks at the Flare 9 and 10 blowers.
- Basin B had no ponding water and a minimal amount of sediment. Wind-blown trash was seen in the back of the basin and on the native hillsides.
- The gabions in the westside drainage channel to the Terminal Basin were completely loaded with soil. Some were being removed along with the soil.
- The corrugated HDPE downcomer drainage pipe above the main access road came apart and runoff caused deep erosion gullies.
- The temporary dirt basin below Cell CC-3B was filled with dirt and was not draining. A pump was being used to drain it. The dirt slopes on the eastside of the basin adjacent to the concrete outlet channels had significant uncontrolled erosion.
- The Terminal Basin had a significant amount of sediment. The outlet risers were plugged with sediment and there was water ponding. There was minimal water being released. There was trash seen on the front outside of the basin.
- The potable water supply pressure control valve and pump block valve in the graywater handling area were leaking water.
- The sewer deep well pump carbon drum had a strong condensate odor in the general area.
- The retaining wall on San Fernando Road had more soil sloughed from the hillside and was horizontally loading the fence in more places. Addition rain could cause more sloughing and possible wall or fence failure.
- The Old City South Landfill slope south of the office facilities has a sink hole-type of settlement occurring. It appears to have sunk approximately 3 feet over a large area. A thorough monitoring will occur at the next site visit.

Flare Operating Conditions:

- Flares 1 and 3 - not monitored
- Flare 9 - 1658°F, 3887 SCFM, -63" vacuum, 37.5" out
- Flare 10 - shut down

The gas-to-energy plant was using 8760 SCFM of recovered landfill gas, 39.9% CH<sub>4</sub>, 5.18% O<sub>2</sub>  
The facility was at 100% production.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 01-31-2017 Tuesday
Site Conditions: Clear, 56–71 °F, 3–15 mph, 46% RH	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas (UltraSystems).</li> <li>2. Distinct odors were detected in adjacent neighborhood and at school.</li> <li>3. Checked into office and with Patti Costa and Ricky Dhupar (Republic).</li> <li>4. Met with LA County LEA, and discussed odor sources.</li> <li>5. Observed gas well drilling operations at Cell CC-3A.</li> <li>6. Cell CC-3B working area is in good order, with two tippers in operation. ADC is 50% covered by new trash at 9:30 am.</li> <li>7. New Water Buffalo water mister machines are in operation around working area and drilling site.</li> <li>8. Cell CC-4 is in final phases of construction, with liner materials being placed on north slope.</li> <li>9. Observed new Posi-Shell cover material being applied on test slopes below Cell CC-3A.</li> <li>10. Sediment Basin A floor is covered with soil and standing water from recent rains.</li> <li>11. Wind-blown trash is present along north slopes of Sediment Basin A.</li> <li>12. Westside drainage channel is in good condition, with some sediment accumulation.</li> <li>13. County sage mitigation area slopes are mostly void of any new vegetative growth.</li> <li>14. Sediment Basin D is in good order, with no standing water.</li> <li>15. Material storage yard has new piles of debris along its perimeter.</li> <li>16. Flare 9 is operating at 3088 scfm, 1659 °F. Gas sample measured at 46 % Vol. CH<sub>4</sub>, 1.2 % Vol. O<sub>2</sub>, 64 ppm H<sub>2</sub>S and 335 ppm CO. Gas inlet temperature is at 129 °F.</li> <li>17. Flare 10 is offline.</li> <li>18. Sediment Basin B has additional sediment due to recent rains. Wind-blown trash is accumulating at north slopes of basin.</li> <li>19. County top deck has been excavated in areas, with removed stockpiled soil up to 15 feet (exposed gas well vertical pipe is 15 feet high in the air).</li> <li>20. Terminal basin is in good order, with vertical riser drains covered with sediment to within four feet of drain top.</li> <li>21. New liquid storage tanks (Alder/ Baker-type) are lined up along the terminal basin exterior east wall (22 tanks).</li> <li>22. A water pipe vent is leaking at the potable water facility at known location.</li> <li>23. The sewer tie-in area has a strong condensate odor near the carbon filter drum.</li> <li>24. Retaining wall by landfill entrance has a new, substantial amount of soil sloughing down from hillside against wall and top fence (due to recent, heavy rains).</li> <li>25. Condensate odors are present (distinct odor level) at condensate treatment facility.</li> <li>26. Met with Patti Costa, Tyson Ross and Ricky Dhupar (Republic), and discussed our site monitoring observations.</li> </ol>	

Page: 2 of 2      01-31-2017



FURTHER REVIEW NEEDED

1. Remove wind-blown trash at Sediment Basin A.
2. Remove wind-blown trash at Sediment Basin B.
3. Repair water pipe vent at the potable water facility.
4. Eliminate odor at sewer tie-in area.
5. Remove soil impacting retaining wall by landfill entrance.
6. Eliminate condensate odor at condensate treatment facility.

Signed: *Michael W. Lindsay*



# February Site Visits

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## February 23, 2017:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

Tarik Hadj-Hamou (SLR)



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 3
Discipline: Project Manager	Date: 2/23/17
Site Conditions: Clear and sunny, 45-60°F, 5-25 MPH winds	
<b>SITE LOG</b>	
<p>Republic Site Manager - Rob Sherman</p> <p>Drove the Granada Hills neighborhood and school area from 6:50 to 7:30 a.m. and no landfill odors were detected. The pavement at Balboa and Woodley had no liquids staining from leaking trucks and no odors were detected. There was a small area on Balboa between Timber Ridge and the I-5 at approximately 8:15 a.m. where distinct landfill liquids odor was detected.</p> <p>Drove to the I-5 overpass on San Fernando Road. The dirt and illegally dumped waste on the roadway was removed by the City. Dirt was illegally dumped on the shoulder and waste was dumped under the overpass. This is outside of Republic's clean-up area.</p> <p>Met with Mike Lindsay (UltraSystems) and Tarik Hadj-Hamou (SLR), and signed in. We had a brief discussion with Mike Beaudoin (Republic) concerning the current liquids removal and gas recovery enhancement project underway on site. Met with George Kasikarin (City LEA) and Mike Harmon (LACDPW). The monitoring team was joined by Republic, City LEA, and County representatives and observed the slope soil movement in the soil stockpile area at the City South landfill. Soil movement appears to be limited to a small area which does not have waste. It was recommended that Republic's geotechnical engineers monitor this area for stability.</p> <p>The monitoring team was joined by Mike Beaudoin and Mike Harmon, then proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• The general condition of the slopes in Cell CC-3A and CC-3B were heavily impacted by the recent rainstorms. Drainage ribbons were seen on most waste slopes with exposed trash observed. Repairs to the slopes were slow due to the wet slope conditions. The inactive County slopes had deep cut erosion gullies in the soil stockpile slope areas. The old City landfill slopes had minor areas of erosion.</li> <li>• Well drilling was observed on the CC-3A top deck. Due to the watering in of the well during drilling, landfill liquids were being collected in an open air pit for vacuum truck removal. No vapor recovery system was being used during drilling. Strong liquids odors were detected adjacent to and away from the area due to the liquids in the open pit.</li> <li>• Cells CC-3B and the County top deck Phase II-C were active accepting waste.</li> <li>• Ponding of water was observed along the access to Cell CC-3A top deck on the north side of the road. The Posi-Shell in this area appeared to have performed well.</li> <li>• The Posi-Shell above the CC-4-Part 1 lined area had areas that were undercut from the runoff from the recent heavy rain events.</li> </ul>	



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- Cell CC-4 Part 1 operations layer had erosion gullies. The operations layer was in the process of being repaired. The underlying geosynthetics were not affected. Soil from the adjacent slopes was deposited onto the geosynthetics. The geotextile on the side slopes had no operations soils layer and had been that way for over a couple months. The manufacturers' allowable exposure time to sunlight should be checked.
- Republic is installing a cell drainage system (a new conceptual system) in Cell CC-4 Part 1 using gabions, drainage piping, and future conductive drainage well placement to allow better drainage to the base liner and its drainage system.
- The Deck C sage mitigation is greening up with the cooler and wet winter. Decks A and B native vegetation is also greening up.
- The PM-10 oak trees are showing signs of growth.
- Three Dust Boss were operating on the east end of Deck C. The placement of a Dust Boss on the road near the Deck C weather stations should be evaluated with the objective to eliminate odors from migrating over the southern berm.
- The Deck A water tank's foundation was not completely backfilled.
- The wash out of the westside drainage channel asphalt and sidewalk observed on February 13 was repaired with concrete.
- There was significant amount of trash and sediment in the temporary basin below Cell CC-3B. The basin was filled with soil to the spillway level.
- The terminal basin had standing water and a significant amount of sediment around the outlet risers. There is approximately two feet of free board to the top of the risers. There is minimal water flow leaving the basin. There was sediment observed on the outlet side.
- The retaining wall on San Fernando Road had a substantial amount of soil slough down from the hillside. The fence was topped in three places. There is no top of the wall drainage. Soil has risen in front of the wall and is encroaching into the right traffic lane. Republic's geotechnical engineer has previously stated that these issues will be addressed when the soils are dry. The current conditions should be observed by the engineer.
- Basin B had a minimal amount of sediment and standing water. Soil slid down from the hillside in the far eastern area of the basin. There was trash in the basin's sediment. There was minimal wind-blown trash in the hillside native vegetation.
- There were large areas of ponding water observed near the County top deck operating Cell Phase II-C.
- Basin D was clean and dry. There was wood waste and other debris stockpiled adjacent to the basin.
- Basin A had standing water. There was sediment around the rock filter for the outlet risers. Soil from the Edison pole construction slid into the basin. The adjacent hillside had an active spring flowing water down and cut ribbons into the hillside. The basin outlet channel was blocked and had approximately two feet of standing water.

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Flare Operating Conditions:

- Flare 1 - 1690°F, 2160 SCFM, -57.85" vacuum
- Flare 3 - not monitored
- Flare 9 - 1636°F, 2652 SCFM, -65" vacuum, 37.5" out
- Flare 10 - shut down

The gas-to-energy plant was using 8538 SCFM of recovered landfill gas, 49.9% CH<sub>4</sub>, 2.3% O<sub>2</sub>  
The facility was at 100% production.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 02-23-2017 Thursday
Site Conditions: Clear, 43–54 °F, 6–25 mph, 48% RH	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office and with Rob Sherman (Republic).</li> <li>2. Met with George Kasikarin (LA City LEA), and discussed erosion on slopes by admin facility.</li> <li>3. Met with Mike Beaudoin (Republic), and discussed overall landfill dewatering.</li> <li>4. Met with Mike Harmon (LACDPW). Mr. Harmon and Mr. Beaudoin joined us for site monitoring.</li> <li>5. Observed gas well drilling operations at Cell CC-3A.</li> <li>6. Cell CC-3B working area is in good order, with two tippers and water misters in operation. ADC is 60% covered by new trash at 10:10 am.</li> <li>7. A second test area of Posi-Shell intermediate cover material has been installed on slopes south of Sediment Basin B.</li> <li>8. Cell CC-4 Part 1 construction continues, with liner system being installed on east side of cell.</li> <li>9. A new system design for cell drainage is being constructed, including grading for an 18'x18'x12'-high gabion block, and perforated drainage pipe (six of these block drainage systems are to be installed at Cell CC-4 Part 1).</li> <li>10. City Deck C sage mitigation area is growing well, with new plants emerging due to recent heavy rains.</li> <li>11. Three water misters are operating above City Deck C for odor control.</li> <li>12. The PM-10 berm oak trees are showing signs of new growth.</li> <li>13. Flare 1 is operating at 2163 scfm, 1688 °F. Gas inlet temperature is at 94 °F.</li> <li>14. Observed overall landfill operations from observation deck. Using a hand-held anemometer, wind gusts were measured at 24.8 mph.</li> <li>15. The water tank foundation has not been fully backfilled, causing rain water to pond.</li> <li>16. City Deck A and B are greening due to recent rains.</li> <li>17. Erosion damage has been repaired along drainage channel at main haul road.</li> <li>18. Terminal basin is in good order, with vertical riser drains covered with sediment to within two feet of drain top.</li> <li>19. Water is ponding near leachate treatment facility.</li> <li>20. Retaining wall by landfill entrance has a new, substantial amount of soil sloughing down from hillside against wall and top fence (due to recent, heavy rains).</li> <li>21. Sediment Basin B has additional sediment due to recent rains.</li> <li>22. Flare 9 is operating at 2652 scfm, 1634 °F. Gas levels indicated at 49.9 % Vol. CH<sub>4</sub>, 2.3 % Vol. O<sub>2</sub>.</li> <li>23. Flare 10 is offline.</li> <li>24. Secondary access road by Flare 11 area is in good condition after heavy rains.</li> <li>25. County top deck working area is in good operating condition, with tippers. ADC is 90% covered by new trash at 1:15 pm.</li> <li>26. Sediment Basin A floor is covered with soil and standing water from recent rains. Soil is sloughing off of south slope into basin.</li> </ol>	

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27. Drainage channel for Sediment Basin A is blocked with soil, causing ponding water in channel.

FURTHER REVIEW NEEDED

1. Backfill water tank foundation at known locations.
2. Eliminate water ponding near leachate treatment facility.
3. Remove soil impacting retaining wall by landfill entrance.
4. Remove soil that is blocking drainage channel for Sediment Basin A.

Signed: *Michael W. Lindsay*





### SUNSHINE CANYON LANDFILL

#### MITIGATION MONITORING SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 11
Discipline: Civil – Geotechnical and Hydrology	Date: February 23, 2017
Site Conditions: Sunny	
<b>SITE LOG</b>	
7:00 Met with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill	
8:30- Sign-up in main office, meet with Michael Beaudoin	
8:30 - 9:30 meet with LA County DPW staff: Mike Harmon	
9:30 - 2:30 landfill tour Observed the following areas: <ul style="list-style-type: none"> <li>• Cell CC4 because of concerns for damage following rain events</li> <li>• Placement of waste at Cell CC3B and on top of Cell CC3A</li> <li>• Erosion protection</li> <li>• Drainage systems (Basins, channels)</li> <li>• Secondary exit road by Flare 10 and crest road</li> <li>• Landfill for geotechnical and hydrological issues</li> </ul>	
Cell CC4 <ul style="list-style-type: none"> <li>• Operation layer placed on base of cell that erosion gullies are not significantly deeper than on January 17<sup>th</sup>, 2017 (Photo 1) and could be repaired easily. The underlying geosynthetics were not exposed</li> <li>• The geosynthetics on the side slope shows no damage from rainstorm. Some soil from upper area was deposited by mud laden water flowing onto the geosynthetics from the flat area above the slope</li> <li>• Construction was ongoing with placement of the liner system in the northeastern portion of the cell (Photo 2) and installation of a new concept gas-leachate collection well</li> <li>• The upper geotextile on the side slope has been exposed to sunlight for over a month and its allowable exposure time as recommended by the manufacturer should be reviewed to verify conformance with Technical Specifications</li> </ul>	
Waste Placement <ul style="list-style-type: none"> <li>• Cell CC3B               <ul style="list-style-type: none"> <li>– Waste was placed in the cell</li> <li>– No civil or geotechnical issues such as water ponding were observed</li> </ul> </li> <li>• Top of County Landfill Phase IV               <ul style="list-style-type: none"> <li>– Two transfer station truck tippers were active (Photo 3)</li> <li>– No civil or geotechnical issues such as water ponding were observed</li> </ul> </li> </ul>	
Erosion Protection <ul style="list-style-type: none"> <li>• All systems installed at site are in good shape</li> <li>• Gullies were noted on slope faces but none present a threat to the stability of waste mass</li> <li>• Grass is growing through the erosion protection mesh</li> </ul>	



- The slopes of the new drainage channel from the spillway of the new temporary unlined earthen basin near the bottom of the canyon before the final sediment basin were not protected and suffered some damage during the rainstorm. It does not appear that the situation has worsened since January 17, 2017. The water from the upper area namely the face of cell CC3A now flows directly into the Terminal. However of concern is the erosion gullies along the concrete V-ditch down the slope (Photo 4).

#### Drainage system

- New temporary unlined earthen basin
  - basin is now completely full of sediment (Photo 5) and the water from the areas above (cell CC3A slope) now flows directly into the Terminal Basin
- A downchute on slope of City landfill ruptured during rainstorm and has been repaired with a slip liner (Photo 6)
- Gabion mats installed in the channel along the access road did a great job retaining fines, minimizing the load in the Terminal basin however the fines retained reduce the area therefore the capacity of the channel to convey the flow of water (Photo 7)
- Terminal Basin
  - The basin is partially full with sediments.
  - The row of gabions midway in the basin have worked well in slowing down water and retaining sediment ahead of the decant towers. Sediment rose up to third row of gabions along the southern wall of the basin (Photo 8) reducing the capacity of the basin drastically
  - We noted the following:
    - water level near decant tower is approximately 1.5 f below top (photo 9)
    - Refuse and soil have accumulated against the decant tower.
    - low flow out of the basin carries some fines (Photo 10)
- Basin A
  - Sediments have accumulated in basin and water was ponding (Photo 11)
  - No additional soil has sloughed on the eastern edge where the gas line to Flare 3 is laid out (Photo 12)
  - the volume of soil that fell in the basin does not impact adversely the capacity of the basin
  - A seep was observed on the hillside cut adjacent to the basin. The seep has led to some erosion and sloughing on one of the benches (Photo 13).
- Basin D
  - Clean
  - All channels into out of the basin are clean and open.
- Basin B
  - A minimum accumulation of sediment at decant towers but not enough to reduce the storage volume
  - Some soil slid from the hill in the far corner (Photo 14)

#### Access Road to Administration Buildings

- An area on the slope rising from the access road to the administration building was observed to have experienced some sloughing (Photo 15)
- The area is immediately beneath a bench and near a connection with another bench and where pipes were laid out.


#### Overall landfill inspection.

- No slope stability issues were noted during the site tour except on the slope nes ttoe the acces road to the Administration Buildings as discussed previously



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2:00-2:30 Close-out meeting with Republic Staff through a conference call
<b>FURTHER REVIEW NEEDED</b>
<ul style="list-style-type: none"><li>Capacity of terminal basin to store additional water before the level reaches the spillway in case of large storm should be evaluated by Republic Consultant Republic geotechnical consultant should examine the area that shows some movement above the access road to the Administration Pad.</li></ul>
<b>COMMENTS</b>
<ul style="list-style-type: none"><li>Republic geotechnical consultant has looked at the retaining wall along San Fernando Road and it is the understanding from all stakeholders that work cannot commence till the dry season.</li></ul>
Signed: 

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Photo 1: Base of Cell CC4. – Erosion gullies in operation layer



Photo 2: Installation of geosynthetics in northeast corner of cell of CC4



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Photo 3: Waste Placement on old County landfill deck Phase IV



Photo 4: Erosion gullies along spillway of interim basin

PAGE 6 OF 11



Photo 5: Interim Basin completely full of sediment



Photo 6: Slip liner installed as repair of downchute on slope along main access road





Photo 7: Sediment trapped in South drainage channel reducing area of channel



Photo 8: Sediment in Terminal Basin



Photo 9: Refuse against decant Tower at Terminal Basin



Photo 10: Sediment flowing outside Terminal Basin





Photo 11: Water and Sediments in Basin A



Photo 12: Sloughed soil in Basin A and seep on graded cut slope



Figure 13: Seep , erosion and sloughed soil on graded cut slope at Basin A

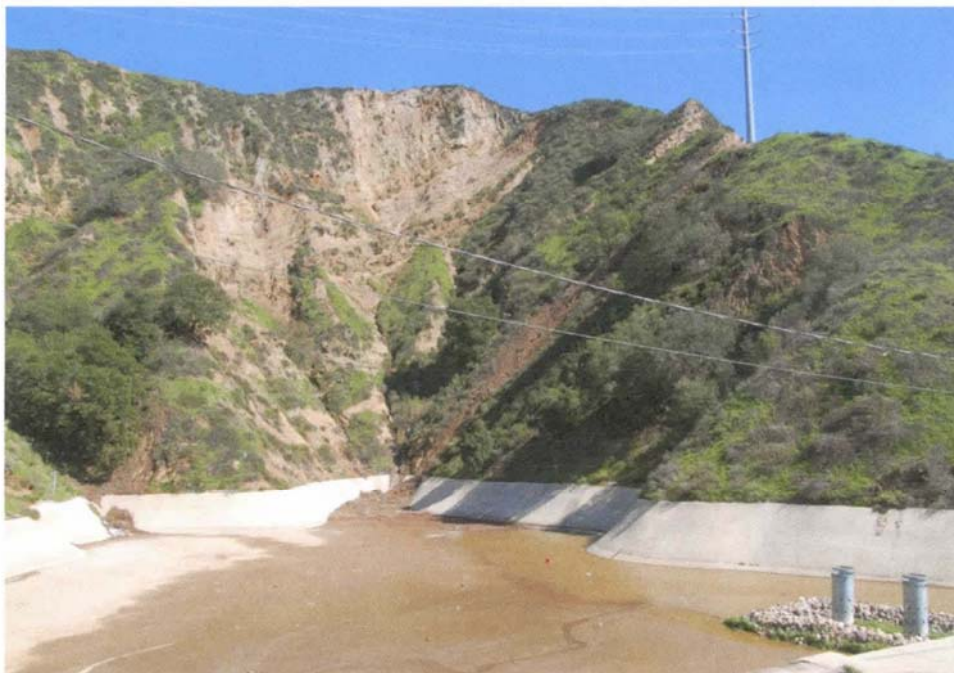


Figure 14: Soil accumulation from small slide in rear of Basin D



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Figure 15: Area exhibiting soil movement above access road to Administration Pad



Figure 16: Close-up view of Figure 15

# March Site Visits

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## March 9, 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: 3/9/17
Site Conditions: Clear and sunny, 65-80°F, 5-15 MPH winds	
<b>SITE LOG</b>	
<p>Republic Site Manager - Rob Sherman</p> <p>Drove the Granada Hills neighborhood and school area from 6:50 to 8:00 a.m. The pavement at Balboa and Woodley had no liquids staining from leaking trucks and no odors were detected from the pavement. There was a faint waste liquids odor in the air that came and went with wind gusts from the north. The Knowlwood Country Club, Jolette from Balboa to Sesnon, and the Van Gogh school and adjacent neighborhood had no landfill odors detected.</p> <p>Drove to the I-5 overpass on San Fernando Road. The dirt and illegally dumped waste on the roadway was removed by the City. More dirt was illegally dumped on the shoulder and waste was dumped under the overpass behind the overpass fencing. This is outside of Republic's clean-up area.</p> <p>Met with Mike Lindsay (UltraSystems) and signed in. We had a brief meeting with Rob Sherman and Patti Costa (Republic). We then met with Gabriel Esparza and Vu Truong (LACDPW) and proceeded to monitor the site and observed the following.</p> <ul style="list-style-type: none"> <li>The soil that had accumulated in the southbound acceleration lane on San Fernando Road was being removed.</li> <li>A large area of the west-facing slope of CC-3A was covered with Posi-Shell. No new drainage control was installed to handle the increased in rainwater flow rate.</li> <li>CC-3B was accepting waste and had three Buffalo Monsoon water misters operating.</li> <li>Cell CC-4 had repairs that were made to fix areas that were impacted by the rain events. Six liquid removal gabion drainage systems were installed on top of the liner. These drainage systems should allow the cells to drain any liquids to the liner allowing better liquid and gas recovery.</li> <li>Well drilling was observed on the County south top deck north of the top deck of CC-3A. Liquid odors were detected on the top deck from the drilling operation.</li> <li>A second well drilling was observed north west of the first drill rig. This operation had a strong localized gas odor. The odor did not carry far.</li> <li>County top deck had waste being placed in the Phase II-C area. Uncontrolled dust was observed coming from transfer trucks moving on dry soil.</li> <li>Basin D was observed and was dry and free of sediment.</li> <li>Wood waste, stumps, and old electrical poles are being stockpiled on a flat dirt area above and adjacent to Basin D.</li> <li>Deep rill erosion was observed on the County sage mitigation slopes and adjacent slope areas. Flow of rainwater behind the westside channel concrete sidewalls has occurred.</li> </ul>	

Page 2 of 2, 3/9/17:

- Horizontal movement and cracking of the concrete channel sidewalls and lifting and cracking of the concrete floor was observed.
- Basin A had standing water near the outlet risers and a significant amount of sediment.
- The Basin A outlet channel was blocked by a construction road and had ponding water.
- The cut hillsides south of Basin A had significant sloughing of soil into the basin.
- City Decks A and B native vegetation were responding well to the rain and cool temperatures.
- The Deck A water tank's foundation is not completely backfilled.
- The safety hatch on the Deck A water tank ladder was not closed and locked and poses a potential hazard.
- Ponding water was observed in the concrete drainage channel on the City south landfill Deck B.
- City Deck C sage mitigation was doing well with new plants growing.
- There was a significant amount of sediment in the terminal basin. The outlet risers were covered with trash and were significantly blocked with sediment. The ability to handle a major storm should be checked by Republic engineers.
- Sediment was observed in the outlet channel of the terminal basin.
- Blown and dumped trash was observed on the outside wall of the terminal basin and the San Fernando Road block wall.
- The drainage pipe across from the terminal basin on the City south slope had no down-comer pipe.
- The Pure Carb Vessel in the leachate treatment facility was venting to the atmosphere and liquid-type odors could be detected at the terminal basin.
- Sierra Highway near the I-14 overpass had a shopping cart, couch and debris dumped on the shoulder of the highway.

Flare Operating Conditions:

- Flare 1 - 1690°F, 2180 SCFM, -57.7" vacuum
- Flare 3 - not monitored
- Flare 9 - 1652°F, 2466 SCFM, -64" vacuum, 36.6" out
- Flare 10 - 1608°F, 2510 SCFM

The gas-to-energy plant was using 7401 SCFM of recovered landfill gas, 46.4% CH<sub>4</sub>, 2.54% O<sub>2</sub>

FURTHER REVIEW NEEDED

COMMENTS

Signed: 



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 03-09-2017 Thursday
Site Conditions: Clear, 63–83 °F, 6–15 mph, 30% RH	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas (UltraSystems), and checked into office and with Rob Sherman and Patti Costa (Republic).</li> <li>2. Observed soil being removed from acceleration lane at landfill entrance.</li> <li>3. Met with Gabriel Esparza and Vu Truong (LACDPW).</li> <li>4. Cell CC-3B working area is in good order, with two tippers and water misters in operation. ADC is 70% covered by new trash at 9:35 am.</li> <li>5. Cell CC-4 Part 1 is in final stages of construction. Six new gabion block drainage systems have been installed throughout cell.</li> <li>6. Posi-Shell application has been increased to include cover up to the bench road, east of Cell CC-4 P1.</li> <li>7. Drilling rig is operating at south end of County top deck working face. Strong odors are present near drilling rig.</li> <li>8. Litter pickers are on site to control litter.</li> <li>9. A second drilling rig is operating at southwest end of County top deck working face.</li> <li>10. County top deck working area is in good operating condition, with tippers and water misters. ADC is 80% covered by new trash at 9:40 am.</li> <li>11. Bird abatement is in place using live falcons near County top deck working area.</li> <li>12. Flare 9 is operating at 2390 scfm, 1645 °F. Gas levels indicated at 47 % Vol. CH<sub>4</sub>, 2.5 % Vol. O<sub>2</sub>.</li> <li>13. Flare 10 is operating at 2528 scfm, 1616 °F. Blowers 2, 3 and 4 are operating.</li> <li>14. Sediment Basin D is in good condition.</li> <li>15. Westside drainage channel is in overall good condition, with some new concrete uplifting and side-wall cracking.</li> <li>16. Sediment Basin A floor has some additional soil and standing water from recent rains.</li> <li>17. Wind-blown trash has collected on north slopes of Sediment Basin A.</li> <li>18. Water trucks are applying water throughout site for dust control.</li> <li>19. Flare 1 is operating at 2180 scfm, 1693 °F. Gas inlet temperature is at 125 °F.</li> <li>20. Observed overall landfill operations from water tank area, including new access roadway being built.</li> <li>21. The water tank foundation has not been fully backfilled at known locations.</li> <li>22. City Deck A and B are growing well after several rain events.</li> <li>23. City Deck C sage mitigation area is growing well, with new plants emerging due to recent heavy rains.</li> <li>24. Sierra Highway has a couch and shopping carts dumped on shoulder by I-14 overpass.</li> <li>25. Terminal basin is in good order, with additional soil accumulated due to recent rains.</li> <li>26. Trash and debris is present at Terminal Basin outlet at known location.</li> <li>27. Strong odors are present at leachate treatment facility by landfill entrance.</li> <li>28. Traffic spotters are onsite to control traffic.</li> </ol>	

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29. Met with Patti Costa, Kate Logan, Ricky Dhupar, Mat Eaton and Mike Beaudoin (Republic), and discussed our site monitoring observations.

**FURTHER REVIEW NEEDED**

1. Eliminate odors near drilling rig at County top deck working face.
2. Remove wind-blown trash from north slopes of Sediment Basin A.
3. Backfill water tank foundation.
4. Remove dumped debris from Sierra Highway.
5. Remove trash and debris at Terminal Basin outlet.
6. Eliminate odors near leachate treatment facility.

Signed: *Michael W. Lindsay*



**March 23, 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: 3/23/17
Site Conditions: Clear and sunny, 50-70°F, 20 MPH wind gusts	
<b>SITE LOG</b>	
<p>Republic Site Manager - Rob Sherman</p> <p>Drove the Granada Hills neighborhood and school area from 7:10 to 8:10 a.m. and the following was noted:</p> <p>7:10 to 7:20 - no landfill odors at Balboa and Woodley, Van Gogh School and the adjacent neighborhood.</p> <p>7:35 - faint odors at the end of Constable that came and went from the north with approximately 15 MPH wind gusts</p> <p>8:00 - faint odors at Timber Ridge and Mission Tierra (13372) that came and went with the wind gusts. The faint odor was just in a 2 or 3 house area.</p> <p>8:10 - detected a strong liquids odor on San Fernando Road at the southern entrance block wall.</p> <p>Met with Mike Lindsay (UltraSystems) and monitored the landfill entrance and observed:</p> <p>8:25 - the leachate treatment facility had a Buffalo Monsoon water mister operating with odorant added to the water to control any landfill odors. A strong odor was detected at the terminal basin.</p> <p>8:40 - The graywater handling area had wind gusts of 10 to 15 MPH from the north. Strong condensate odors were coming from the sewer lift pump vault and were wafting onto San Fernando Road.</p> <p>Mike Lindsay and I signed in at the office and had a brief meeting with Patti Costa and Mat Easton (Republic) to notify them of the strong odors at the landfill entrance. They took immediate action to seal the lift pump vault. The UltraSystems team then proceed to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• The retaining wall on San Fernando Road had additional soil slough down from the hillside since the last monitoring. There is additional soils and rock topping the fence in multiple areas. Republic's geotechnical engineer should look at the existing conditions.</li> <li>• The temporary basin below Cell CC3B had ponding water being pumped and sediment being removed. The prior noted trash in the basin had been removed.</li> <li>• The terminal basin had additional sediment since the last site monitoring, with surface water ponding around the outlet risers. The risers were covered with trash and significantly blocked by sediment, restricting current capacity to handle rainwater. Portions of the basin had sediment moved to piles to drain water. Removal of sediment is in progress.</li> <li>• The City South slope slough area remained unchanged since the February site monitoring.</li> </ul>	



Page 2 of 2, 3/23/17:

- A liquids recovery system is under construction near the City landfill toe berm. The Alder tanks have been moved to the location and sumps, pumps, and controls have been installed. How the system will function is not known.
- CC3B is inactive today. Wind gusts were measured at 20 MPH.
- A strong liquids odor was detected on the top deck of CC-3A coming from a well drilling rig below which was drilling on a CC-3A slope bench.
- A building enclosing condensate sediment removal equipment was observed near Basin B.
- The temporary flare stack has been dismantled.
- Basin B has sediment with minor amounts of ponding water. The native hillside has minimal wind-blown litter.
- Basin D is dry and has no sediment from the rains.
- The site working area is on the County top deck in the Phase II area.
- A second well drilling rig in the County Phase II working area had a localized gas odor.
- There was a flare exhaust odor detected between Flare 10 and the Sunshine Gas Producers' flare. It smells like unburned gas (approximately 11:30 a.m.) This happened when wind gusts occurred from the north.
- The CC4 liner area was under construction and nearing completion.
- Basin A had standing water and the risers appear to be blocked by sediment with minimal draining occurring. The outlet channel blockage was cleared. The southern graded slopes had soil slough into the basin from the rainwater runoff.
- City Deck C sage mitigation was doing well with vegetation flowering.

Flare Operating Conditions:

- Flare 1 - shut down
- Flare 3 - not monitored
- Flare 9 - shut down
- Flare 10 - 1651°F, 4384 SCFM, -64" vacuum, 37.6" out

The gas-to-energy plant was using 8636 SCFM of recovered landfill gas, 50.9% CH<sub>4</sub>, 1.91% O<sub>2</sub>. The facility was at 100% production.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2	-
Discipline: Environmental Engineer	Date: 03-23-2017	Thursday
Site Conditions: Clear, 49–68 °F, 6–18 mph, 54% RH		
<b>SITE LOG</b>		
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas (UltraSystems), and checked into office and with Patti Costa and Mat Eaton (Republic).</li> <li>2. Strong leachate odors are present at leachate treatment facility by landfill entrance. A Water Buffalo Monsoon water mister is in operation near storage tanks. Wind measurement is reading 11 to 14 mph at 8:15 am.</li> <li>3. Strong condensate odors are present at sewer tie-in near landfill entrance.</li> <li>4. Retaining wall by landfill entrance has new, sloughing soil impacting wall and top fencing due to recent rains.</li> <li>5. Terminal basin has additional sediment throughout basin due to recent rains. A soil berm has been created upstream of gabion wall. Wind measurement is reading 14 mph at 8:45 am.</li> <li>6. Litter pickers are on site to control litter.</li> <li>7. Alder tanks have been relocated to the old City north deck by perimeter drainage channel.</li> <li>8. A new liquids recovery system is being installed at base of existing toe berm, including sump pumps, controls and piping to "tank farm" (Alder tanks). Wind measurement is reading 18 mph at 9:10 am by Alder tanks.</li> <li>9. Water trucks are applying water throughout site for dust control.</li> <li>10. A new secondary liquid containment system has been built around Alder tanks, including lined soil berms.</li> <li>11. Cell CC-3B working area is in good order, with ADC fully covering trash (no new trash is being dumped on cell today). A bulldozer is covering the ADC with soil at 10:30 am. Wind measurement is reading 20 mph at 10:30 am.</li> <li>12. A strong odor is coming from the north (coming from the County top deck area and drilling rig).</li> <li>13. Sediment Basin B is in good order, with some additional soil and standing water from recent rains.</li> <li>14. The temporary flare has been dismantled, and is laying on its side.</li> <li>15. Flare 9 is offline.</li> <li>16. A strong odor is coming from Flare 10 (possibly from flare exhaust via wind downdraft).</li> <li>17. Flare 10 is operating at 4451 scfm, 1633 °F. Gas sample measured at 49 % Vol. CH<sub>4</sub>, 2.3 % Vol. O<sub>2</sub>, 19 ppm H<sub>2</sub>S and 392 ppm CO. Blowers 2, 3 and 4 are in operation.</li> <li>18. Working area at County top deck is in good operating condition, including tippers and water misters.</li> <li>19. Traffic spotters are onsite to control traffic.</li> <li>20. Sediment Basin A floor has some additional sloughed soil from recent rains.</li> <li>21. Sediment Basin A drainage channel has been cleared of soil blocking the outlet.</li> <li>22. Flare 1 is offline.</li> <li>23. City Deck C sage mitigation area is growing well, with various yellow flowers throughout.</li> <li>24. Met with Patti Costa, Ricky Dhupar, Mat Eaton and Tyson Ross (Republic), and discussed our site monitoring observations.</li> </ol>		



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FURTHER REVIEW NEEDED
<ol style="list-style-type: none"><li>1. Eliminate odors near leachate treatment facility.</li><li>2. Eliminate condensate odors near sewer tie-in.</li><li>3. Remove soil impacting retaining wall by landfill entrance.</li><li>4. Eliminate odors near drilling rig at County top deck working face.</li><li>5. Eliminate odors from Flare 10 exhaust.</li></ol>
Signed: <i>Michael W. Lindsay</i>

# Appendix IV

## Meeting Logs

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

January 17, 2017

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

Attendees:

James Aidukas, UltraSystems  
Tarik Hadj-Hamou, SLR  
Gabriel Esparza, LACDPW  
Vu Truong, LACDPW



Discussion:

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

- a) Tarik Hadj-Hamou stated that the site erosion control performed well during the recent rain events and that there were select areas that needed repair and some were already being addressed by the maintenance crews.
  - o Patti Costa acknowledged the statement
- b) Tarik Hadj-Hamou stated that the Cell CC-4 upper geotextile on the side slope has been exposed to sunlight for a month and that the QAQC engineer should check the manufacturer's technical specifications for maximum allowable exposure time to sunlight.
  - o Patti Costa stated that she would discuss this concern with the design engineers.
- c) Tarik Hadj-Hamou stated that the Basin A overflow outlet channel was blocked at the twin 12" corrugated pipes with sediment and trash bags. Also, the basin outlet risers were also not draining the basin possibly due to sediment blocking the flow.
  - o Patti Costa stated that she would have operations staff check the basin and outlet channel.
- d) Tarik Hadj-Hamou stated that the Terminal Basin had a significant amount of sediment and ponding of rainwater and appears to be not discharge water.
  - o Patti Costa stated that they were getting a discharge of clean water and that operations is planning to modify the tops of the outlet risers to improve draining.
- e) Tarik Hadj-Hamou asked what were the Adler tanks going to be used for.
  - o Patti Costa stated that surface water from the CC-3B basin was going to be processed and stored for reuse.
- f) Tarik Hadj-Hamou stated that the San Fernando Road retaining wall had more soil sloughing down from the hillside and that the fence was being topped with soil in some areas.
  - o Patti Costa stated that their geotechnical consulting engineer looked at the wall and recommended moving the rock and soil, but the hillside and sloughed material needs to be dry and the Gas Company's pipeline work needs to be completed. The wall clearing will most likely be done in May.
- g) James Aidukas stated that he detected faint landfill odors in the adjacent neighborhood: Balboa and Woodley at 6:50; End of Constable Avenue at 7:00; Timber Ridge and Canyon

Ridge at 7:10; Constable and Canyon Ridge at 7:15; Balboa and Orozco at 7:20. At approximately one hour later, the only location with a faint landfill odor was on Timber Ridge at Canyon Ridge. He stated the possible source might have been the drilling on the CC-3A top deck slope.

- Patti Costa stated that she would advise the Republic Operations Manager and Environmental Engineer.
- h) James Aidukas asked what the status was on starting the Posi-Shell testing.
  - Patti Costa stated that they will start the testing once the slopes dry out.
- i) Gabriel Esparza asked what areas were being filled with waste on the County top deck, what are they called, and is there a fill sequence plan drawing.
  - Patti Costa stated that she would provide a drawing to the County.

The meeting was then adjourned.




January 31, 2017

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

Attendees:

James Aidukas, UltraSystems  
Mike Lindsay, UltraSystems



Discussion:

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

- a) James Aidukas stated that odors were detected throughout the adjacent neighborhood and at the Van Gogh school. Odors smelled like condensate liquids, from a strength of faint to distinct. Odor was detected in a larger area of neighborhood than has been in the past.
  - Ricky Dhupar stated that the Republic team is working on locating the source of the odors today.
- b) James Aidukas stated that Sediment Basin A has its outlet drainage 12" corrugated steel pipes plugged with trash and sediment.
  - Ricky Dhupar stated that he will let operations know to fix the problem.
- c) James Aidukas stated that condensate odors were detected on the northeast slope above Cell CC-4.
  - Tyson Ross stated that they will investigate odors on that slope.
- d) James Aidukas stated that the County top deck has had a lot of stockpiled soil removed, and asked if that was the next fill area.
  - Ricky Dhupar stated that he will look into that.
- e) James Aidukas stated that there are deep erosion ruts on the County slopes.
  - Patti Costa stated that they are working on those erosion issues.
- f) James Aidukas stated that the Terminal Basin outlet risers were discharging a small amount of water and it appears that sediment was blocking the basin from draining all of the water in the basin. A significant amount of water was stagnant in the basin.
  - Patti Costa stated that they are about to remove the sediment around the drains and modify the outlet risers.
- g) James Aidukas stated that the Old City South Landfill slope along the main access road had a corrugated HDPE drain pipe come apart during the recent rain event and caused significant slope erosion.
  - Patti Costa stated that they will repair the pipe and slope when weather and soil conditions permit.
- h) James Aidukas stated that the carbon filter drum by the sewer tie-in was emitting condensate-type odors.
  - Patti Costa stated that they will investigate the odor.

- i) James Aidukas stated that the retaining wall at the landfill entrance was impacted with additional soil since the last monitoring due to the recent heavy rains.
  - o Patti Costa stated that they are planning on removing rock and soil when weather and the Gas Company's pipeline project permits. It is anticipated that this will be in the spring.

The meeting was then adjourned.



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

February 23, 2017

Post-monitoring conference call meeting with Mike Beaudoin and Mat Eaton (Republic), with Ricky Dhupar on a conference call.

Attendees:

James Aidukas, UltraSystems  
Tarik Hadj-Hamou, SLR  
Mark Harmon, LACDPW



Discussion:

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

Ricky Dhupar gave the following status updates on comments made during our last monitoring.

1. The storage and cleaning of gas well condensate pumps at the leachate treatment location near the landfill entrance is being relocated to a location near the material storage area. Also, vacuum trucks unloading of gas condensate and leachate into a HDPE transmission piping system is also being moved to this area. This is being done to have better control of potential odor sources.
  2. Operations has looked at the oak tree near San Fernando Road with branches in contact with the Verizon communication lines. Initial contact has been made with Verizon and we are waiting for their response.
  3. The Alder tanks near the terminal basin are being used for rain runoff that has been in contact with waste and potentially contaminated. Contract staff has been directed to keep the tank top access lids closed.
  4. The plastic bags and trash that blocked Basin A outlet channel 12" corrugated outlet pipes were removed.
- a) Tarik Hadj-Hamou stated that Basin A had soil slough into the basin from the Edison pole installation and Flare 3 access road cut area. Also, a seep was observed at the top of the cut with the ribbons of water flowing down the cut and causing erosion.
- o Mat Eaton stated that operations and the geotechnical engineer will look at the condition.
- b) Tarik Hadj-Hamou stated that Basin D performed well and was in excellent condition. Basin B performed well and had some soils slide into the basin on the back east side. There was minor sediment and standing water in Basin B. James Aidukas stated that there was some wind-blown trash in Basin B and on the native hillside vegetation.
- o Ricky Dhupar stated that he will notify the operation's staff of the condition.
- c) Tarik Hadj-Hamou stated that the Terminal Basin available capacity should be calculated and temporary cleaning evaluated.
- o Ricky Dhupar stated that when possible, after a drying period, the tops of the outlet risers are scheduled to be cleaned.

- d) James Aidukas stated that sediment was observed on the outlet side of the terminal basin.
  - Ricky Dhupar said that during one of the major rain events, there were minor amounts of sediment leaving the basin.
- e) James Aidukas stated that we observed the Old City South landfill and adjacent stockpile that had an area slide and that the area did not have any impact to the prior closed landfill. It is recommended that their geotechnical consultant monitor the area for further movement.
  - Ricky Dhupar said he would advise GLA consultants.
- f) James Aidukas stated that significant erosion and exposed waste was noted on Cell CC-3A and 3B slopes. Waste was mixed in sediment in the temporary basin below CC-3B.
  - Mat Eaton stated that today was the first day that the slopes were dry enough to get equipment on them. Repair of slopes is an operations top priority along with clearing and cleaning sediment with waste in it.
- g) James Aidukas stated that rainwater ponding was observed along the access road to CC-3A and near the Phase II-C fill area.
  - Mat Eaton said that these ponds are scheduled to be eliminated.
- h) James Aidukas stated that well drilling was observed on the CC-3A top deck. Due to the watering in of the well during drilling, landfill liquids were being collected in an open air pit for vacuum truck removal. No vapor recovery system was being used during drilling. Strong liquids odors were detected adjacent to and away from the area and are due to the liquids in the open pit.
  - Mat Eaton stated that the contract drilling company will be advised to review their procedures and increase the odor control operation.
- i) James Aidukas stated that the retaining wall on San Fernando Road had a substantial amount of soil slough down from the hillside. The fence was topped in three places. There is no top of the wall drainage. Soil has risen in front of the wall and is encroaching into the right traffic lane. Republic's geotechnical engineer has previously stated that these issues will be addressed when the soils are dry. The current conditions should be observed by the engineer.
  - Ricky Dhupar stated that the soils removal and clean-up will most likely not occur until May.
- j) James Aidukas asked when CC-4 Part 2 is scheduled to start.
  - Mat Eaton stated that if plans are approved soon by the County, the start of earth moving could be in April with a duration through September to October, weather permitting.

The meeting was then adjourned.



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

March 9, 2017

Post-monitoring meeting with Patti Costa, Kate Logan, Ricky Dhupar, Mat Eaton and Mike Beaudoin (Republic).

**Attendees:**

Gabriel Esparza, LACDPW  
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 faint landfill odors were detected between 6:50 and 8:00 a.m. at Balboa Boulevard and Woodley Avenue, and at Mission Tierra Way between Timber Ridge Drive and Constable, with winds at 5 mph from the northeast.
  - Mat Eaton stated that drilling rigs do not start operating until 8:00 am.
- b. James Aidukas stated that strong leachate odors were detected at the terminal basin, coming from the leachate treatment facility at 12:40 pm. The Pure Carb vessel in the leachate treatment facility had a quick connect hose disconnected and the fitting was venting odors.
  - Mat Eaton stated that they will install a cap on the vessel connection. This vessel is also out of service.
- c. James Aidukas stated that odors were detected along the access road to Cell CC-3A from multiple types of odors: landfill gas, liquids, and drilling waste.
  - Patti Costa acknowledged the statement.
- d. James Aidukas stated that he talked with a Tetra Tech gas well drilling engineer, who was drilling a gas well at the County top deck Phase II area, and asked if they considered the use of steel pipe for the deep wells in order to have longer service life. The engineer did not know.
  - Mat Eaton stated that they are considering using steel casings and other alternative techniques in order to bolster the well bore's integrity.
- e. James Aidukas stated that water ponding at the County top deck area has been remedied, but that additional ponding is occurring along the access roads.
  - Patti Costa stated that they are about to fix those low spots.

- f. James Aidukas stated that deep rill erosion was observed on the County sage mitigation slopes and adjacent slope areas. Flow of rainwater behind the westside channel concrete sidewalls had occurred. Horizontal movement and cracking of the concrete channel sidewalls and lifting and cracking of the concrete floor was observed.
  - Patti Costa stated that they will have their geotechnical consultant look at the channel and provide recommendations for repair and costs.
- g. James Aidukas stated that the monitoring team observed that a large area of the west-facing slope of CC-3A was covered with Posi-Shell and asked if additional drainage control was going to be constructed to handle the increased flow rate of rainwater runoff.
  - Mike Beaudoin stated that drainage flow is being diverted to keep water away from the Posi-Shell so no lifting will occur at the upper leading edge. He said that they are evaluating the existing drainage system to assess if it will accommodate the increase in flow rate.
  - Mat Eaton stated that the side slopes adjacent to Cell CC-4 Part 1 are double-layered with Posi-Shell for strength.
- h. James Aidukas asked what the buttress area in CC-4 is called.
  - Patti Costa stated that it is called the "CC-4 Buttress," and that the buttress is for Cell CC-4 Part 3 stability.
- i. James Aidukas stated that the westside drainage channel near the scale house has a significant amount of sediment in it and appears to have a reduced capacity to handle rainwater.
  - Patti Costa stated that the clean-out schedule has been impacted by multiple rain storms.
- j. James Aidukas stated there was a significant amount of sediment in the terminal basin, and that the outlet risers were covered with trash and were significantly blocked with sediment. The ability to handle a major storm should be checked by Republic's engineers.
  - Patti Costa stated that Sukut is looking at the riser and the sediment and will be doing what they can next week.
- k. James Aidukas stated that the landfill gas being recovered today totaled 14,557 SCFM (without Flare 3 volume). This is close to double what is being used at the gas-to-energy plant. The lead-time for a new, second facility is 4 to 6 years. Is planning/discussion with energy companies in progress to maximize utilization of the gas being generated?
  - Mat Eaton stated that they are in the consideration phase now.
  - Mike Beaudoin stated that they will have their corporate gas-to-energy engineer look at the program for Sunshine Canyon.
- l. Mike Lindsay stated that trash and debris is present at the outlet side of the terminal basin.
  - Patti Costa stated that they will have the debris removed.
- m. Mike Lindsay stated that trash and debris is present on the Sediment Basin A slopes.
  - Patti Costa stated that they will have the debris removed as best they can, considering the steepness of the terrain.
- n. Mike Lindsay stated that a sofa and debris was illegally dumped along Sierra Highway on the roadway shoulder near the I-14 overpass.
  - Patti Costa stated that they will have the debris removed.



- o. Gabriel Esparza stated that he observed the acceleration lane near the landfill entrance on San Fernando Road was being cleared of the adjacent slope sloughed soil, and asked if they were planning to continue and remove the sloughed soils on top and in front of the retaining wall.
  - o Patti Costa stated that GLA is looking at the retaining wall repair project.
  - o Ricky Dhupar stated that the tree branches on the communication lines are going to be trimmed.
  
- p. Vu Truong stated that he was concerned with the terminal basin lack of capacity due to the high level of soil, and the potential for additional heavy rainfall.
  - o Kate Logan stated that they will be removing material as soon as possible, once the sediment has a chance to decant the water by moving, piling, and drying without additional rain.


The meeting was then adjourned.

March 23, 2017

Post-monitoring meeting with Patti Costa, Ricky Dhupar, Mat Eaton and Tyson Ross (Republic).

Attendees:

James Aidukas, UltraSystems  
Mike Lindsay, UltraSystems



Discussion:

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

- a. James Aidukas stated that there are oak tree branches laying on the overhead Verizon fiber optic lines near the landfill entrance.
  - o Patti Costa stated that their arborist just looked at the trees, and are planning on trimming them.
- b. Tyson Ross stated that he has condition updates on the following issues that UltraSystems has brought to their attention recently.
  - o Ponding water has been taken care of by filling in the low spots.
  - o The acceleration lane has been cleaned up near the landfill entrance.
  - o Trash along Sierra Highway has been cleaned up.
  - o A new protocol has been put in place to keep the Alder tank hatches closed at all times.
  - o The Pure Carb vessel at the leachate treatment facility has the fitting capped to control odors.
  - o Odors at the leachate treatment facility are being controlled with a Buffalo Monsoon water mister with odorant added to the water.
  - o Trash pickers have removed the trash and debris at Sediment Basin A.
  - o The Sediment Basin A outlet drainage channel has been cleared of soil blockage.
  - o The Deck A water tank foundation has been fully backfilled.
  - o Seep above Sediment Basin A has dissipated (GLA looked at the situation).
  - o Transfer trailers have been re-notified to keep their loads tarped when in queue.
  - o Odor neutralizers are being used around drilling liquids.
  - o New gas-to-energy plant expansion planning is being considered now by corporate.
  - o Settling and drainage issues at the City South Landfill is planned to be resolved in the next few months.
  - o County concrete drainage channel repairs are planned for by July.
  - o Soil behind gabion walls in westside drainage channel will be cleaned out by April 1.
  - o Terminal basin cleanout is scheduled to start April 1 by Sukut.
  - o Retaining wall cleanup and slope repair is being planned, with GLA geologist proposing oversight of the project, and Sukut to perform the work, including using a geo-mat for slope stabilization.
  - o Posi-Shell drainage issues are being addressed by engineering team.
  - o Fill sequence plan is still being revised by the County.
  - o Cleaning of the pump station is being scheduled.
- c. James Aidukas stated that there is debris and trash on the outside wall of the terminal basin. This might have been illegally dumped over the San Fernando Road block wall.
  - o Patti Costa stated that they just cleaned it up, but will clean it again.



- d. James Aidukas stated that the water tank ladder hatch is unlocked and may pose an attractive nuisance hazard.
  - Tyson Ross stated that they will fix that.
- e. James Aidukas stated that a strong liquids odor was detected when standing on the top deck of CC-3A. It was coming from a well drilling rig below which was drilling on a CC-3A slope bench. A second well drilling rig in the County Phase II working area had a strong, localized gas odor. The second drilling rig had no gas containment system in place.
  - Tyson Ross stated that they will make sure that the odor control procedures are implemented.
- f. James Aidukas stated at approximately 11:30 a.m., there was a flare exhaust odor detected between Flare 10 and the Sunshine Gas Producers' flare. It smelled like unburned gas. This happened when wind gusts occurred from the north.
  - Mat Eaton stated that he will talk to gas-to-energy plant operators and the Tetra Tech personnel and investigate what was happening at that time.
- g. James Aidukas stated that at about 8:30 a.m. we detected strong condensate odors coming from the sewer lift pump vault that were wafting onto San Fernando Road. The wind was gusting from 10 to 15 MPH from the north. Mat Eaton was notified by us of this odor condition at about 9:30 and indicated that he would investigate and take appropriate action.
  - Mat Eaton stated that at approximately 10:30, he placed a heavy rubber conveyor belt over the vault cover to seal the vault and that it eliminated the odors.

The meeting was then adjourned.