

**Sunshine Canyon Landfill  
Independent Monitor  
Quarterly Site Monitoring Status Report  
July 1, 2019 – September 30, 2019**

*Prepared For:*

**City of Los Angeles Department of City Planning**

*And*

**County of Los Angeles Department of Regional Planning**



*Prepared By:*



16431 Scientific Way  
Irvine, California 92618

*Prepared On:*

December 10, 2019



**UltraSystems**  
environmental | management | planning

## **CERTIFICATION STATEMENT**

December 10, 2019

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated December 10, 2019 is the Third Quarterly Report for 2019, issued by UltraSystems. This report covers the monitoring period from July 1, 2019 through September 30, 2019 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-i through I-l
Appendix II	Photo Location Map and Relevant Site Photos
Appendix III	Quarterly Site Visits
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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 July 1, 2019 to September 30, 2019. It includes:

1. The City and County Mitigation Monitoring Summary spreadsheets for July 1, 2019 to September 30, 2019. These spreadsheets record the areas of monitoring completed and the status of being compliant during the third quarter of 2019;
2. A Status Summary of Non-Compliant, Further Review Needed and Compliant with the requirements of the conditions and/or mitigation measures;
3. Photo Location Map and Relevant Site Photos showing site conditions of key areas of the landfill during this quarter;
4. Site visit attendees by date of site visit and the mitigation monitoring site report from each monitor;
5. Meeting logs documenting any meetings with Republic staff and/or public agencies, with the topics discussed; and
6. Any site monitoring documenting site changes.

## Site Visits During the Quarter

Four site visits were performed by UltraSystems during the July through September 2019 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on July 9, 2019; August 13, 2019; August 27, 2019; and September 25, 2019. 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 onsite 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 onsite 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' 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 landfilling operations as necessary to accommodate development of the ultimate landfill footprint.*

### Geology-1.07 (County)

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

### Geology-1.11 (County)

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

### Biota-4.29 (County)

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

### Biota-4.30 (County)

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

### Biota-4.33 (County)

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

### Biota-4.34 (County)

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



**Current Status/Comments** – During the 3rd Quarter, there was no grading outside of the approved landfill development limits. Cell CC-4 Part 3 was the only development area where grading and liner installation was occurring. Liner installation is scheduled for completion in October. Cover material was being moved from the County top deck.

**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** –In July, early morning disposal trucks that were using dirt roads near the County Bowl area created dust clouds. Water trucks were not yet operating.

In September, trucks hauling wet material to the County top deck stockpiles were creating dust clouds on un-watered roads.

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

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

**Current Status/Comments** – During the 3rd Quarter, no graffiti was observed on site nor on the exterior block walls.

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

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

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

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

**Gas - 52 (County)**

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

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

**Current Status/Comments** – In early July, the gas-to-energy plant was using 9058 SCFM of recovered landfill gas, 44% CH<sub>4</sub>, 0.8% O<sub>2</sub>, 88 ppm H<sub>2</sub>S. Flare 1: not monitored; Flare 3: shut down; Flare 9: 2514 SCFM; Flare 10: 2537 SCFM; Flare 11: 2562. The total volume of landfill gas being recovered was 16,658 SCFM.

In mid-August, the gas-to-energy plant was using 8904 SCFM of recovered landfill gas, 45% CH<sub>4</sub>, 0.4%, 99 ppm H<sub>2</sub>S. Flare 1: 2524 SCFM; Flare 3: 2374 SCFM; Flare 9: 2863 SCFM; Flare 10: 2861 SCFM; Flare 11: down for maintenance. The total volume of landfill gas being recovered was 19,427 SCFM.

In late August, the gas-to-energy plant was using 9210 SCFM of recovered landfill gas, 46% CH<sub>4</sub>, 0.5% O<sub>2</sub>, 94 ppm H<sub>2</sub>S. Flare 1: 2526 SCFM; Flare 3: 2294 SCFM; Flare 9: shut down; Flare 10: 2735 SCFM; Flare 11: 2772 SCFM. The total volume of landfill gas being recovered was 19,537 SCFM.

In late September, the gas-to-energy plant was using 7911 SCFM of recovered landfill gas, 44% CH<sub>4</sub>, 0.9% O<sub>2</sub>, 100 ppm H<sub>2</sub>S. Flare 1: 2354 SCFM; Flare 3: 2712 SCFM; Flare 9: 3374 SCFM; Flare 10: down for maintenance; Flare 11: 3411 SCFM. The total volume of landfill gas being recovered was 19,762 SCFM.

The quantity of landfill gas being recovered during the 3rd Quarter has a daily average of 18,846 SCFM, with the gas-to-energy plant usage averaging 8771 SCFM. An expansion of the gas-to-energy plant or different beneficial-use facility should be evaluated.

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

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

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

*a. immediate access fire plan [now]*

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

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

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

**Current Status/Comments** – An updated fire plan showing the new locations of all facilities and emergency egress should be prepared and sent to the local City fire department station, and City and County planning departments when construction of the new operation's facilities currently under construction have been completed. Emergency egress should be posted for employees and customers. It is recommended that the local City fire department station personnel visit the site and be given the latest facility plot plan showing access roads and facilities.

**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** – The only out-of-approved landfill footprint grading occurring in the 3rd Quarter was related to the approved CC-4 Part 3 buttress-related drainage systems. The only other grading occurring was for development of Cell CC-4 Part 3, removal of stockpiled soils for cover, and grooming of slopes. These activities are inside the approved landfill footprint.

**M-4.1.4(11) (City)**

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

**Geology-1.16 (County)**

*An operations checklist will be used by a certified engineering geologist, registered civil engineer, or licensed surveyor for surveys following all earthquake events of 5.0 magnitude or greater.*

**Current Status/Comments** – The landfill was surveyed by the monitor for any impacts from the Ridgecrest earthquake, and no cracks, fissures, or land movement were observed. Republic had GLA Engineers inspect the landfill after the large earthquake and no site problems were observed.

**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 3rd Quarter, Closure Turf was being maintained and gas and liquids recovery systems under the turf were performing well. This cover material was in lieu of vegetation, and controlled and eliminated dust and erosion. The soil stockpiled on the County top deck was being used for daily cover. By the end of September, the soil stockpiled from the CC-4 Part 3 buttress construction was gone.

#### **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 old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site was not reabandoned. An evaluation of the need to reabandon this well should be done. This well was not leaking oil or gas, and did not pose a current hazard. It is well beyond the approved landfill limits.

#### **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 marker pipes have been removed in areas where Edison pole grading took place, near the Flare 11 site pad grading and near the Cell CC-4 Part 3 buttress. These boundary markers have not been replaced. All markers should be replaced once the Cell CC-4 Part 3 buttress drainage and road construction is completed.

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

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

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

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

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

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

- a. *Sample Probe Installation:* One monitoring probe per 1,000 feet or as identified by South Coast Air Quality Management District (SCAQMD) and/or Local Enforcement Agency (LEA) in the landfill expansion, and one probe per 650 feet or as identified by SCAQMD and/or LEA in the City Inactive landfill along the landfill perimeter, or whichever is more restrictive shall be installed to identify potential areas of subsurface landfill gas (LFG) migration. These probes shall be monitored to ensure that quantities of LFG beyond regulatory standards do not vent offsite through subsurface soils.
- b. *Integrated Landfill Surface Sampling:* The landfill surface shall be monitored to ensure that the average concentration of total organic compounds over the landfill surface does not exceed SCAQMD's standard of 25 ppm.
- c. *Ambient Air Samples:* 24-hour integrated gas samples and required meteorological data shall be taken to assess any impact the landfill is having on the ambient air quality at the landfill perimeter.
- d. *Instantaneous Landfill Surface Monitoring:* Spot checks on the landfill surface shall be made to determine the maximum concentration of total organic compounds measured as methane, measured at any one point on the surface of the landfill does not exceed the SCAQMD's standard of 500 ppm.
- e. *Regular Monitoring and Annual Testing:* LFG concentrations at perimeter probes, gas collection system headers, the landfill surface, and in ambient air downwind of the landfill shall be monitored once per month or less frequently (but no less than quarterly) as required by the SCAQMD. The LFG collection system shall be adjusted and improved based on quarterly monitoring data and annual stack testing results.

#### **Odor/Landfill Gas - 7.06 (County)**

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

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

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

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

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

- *Discuss the impacts of the most recent heavy rains on the landfill gas collection system, including identifying locations of damage due to soil erosion, as well as any corrective actions or mitigation measures.*
- *A work plan that includes preventive measures, such as identifying and filling any surface cracks and installing additional extraction wells, as well as contingency measures.*
- *An implementation schedule for the above work plan.*

**Amendment 45.N - 5 (County)**

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

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

In early July, the monitor drove the Granada Hills neighborhood area from 6:00 to 6:45 a.m. and there were no landfill odors detected. The leachate and condensate Alder tank facility was operating, and strong odors were detected to the northern area of the facility.

In mid-August, the monitor drove the Granada Hills neighborhood areas from 6:15 to 7:00 a.m. and there were no landfill odors detected. The morning operation's tarps were removed at 9:00 a.m. from waste disposed at 6:00 to 7:00 a.m. Trash was not moved by the tarp and no odor was detected within 150 feet. Localized dust was created in moving the tarps.

In late August, the monitor drove the neighborhood and school areas from 6:30 to 7:00 a.m. and there were no landfill odors detected. At 8:30 a.m., a trash truck was observed leaving a substantial amount of liquid as it queued in the scale area. The liquid was from the waste and was odorous. The monitor drove the adjacent neighborhood and school area at 9:30 a.m. and no landfill odors were detected. The leachate recovery system below the CC-3B slope was operating and no odors were detected. The alluvial seep was stopped. Localized odors were detected at the north tank of the Adler tank farm leachate and condensate treatment system. Localized odors were coming from a liquids transmission line repair. The repair was completed by approximately 1:00 p.m. Localized odors were detected at Well 3013D on the CC-3A top deck.

In late September, the monitor drove the neighborhood and school areas from 6:10 to 6:45 a.m. and there were no landfill odors detected. A new odor control mister system was installed and operating on poles adjacent to the PM-10 berm oak trees. Localized odors were detected near the Basin B outlet channel at approximately 12:00 p.m.

Throughout the 3rd Quarter, the use of Closure Turf to seal inactive fill areas with intermediate cover provided enhanced gas recovery and gas-related odor control.

**M-4.3.1(37) (City)**

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



**Surface Water - 2.03 (County)**

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

**M-4.3.1(38) (City)**

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

**Surface Water - 2.12 (County)**

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

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

During the 3rd 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. Jute netting and straw wattles have performed well during last year's heavy rain events, with only moderate erosion occurring. The only area that had erosion from rain events was in the CC-4 Part 3 buttress area due to active grading that was occurring, and the County sage mitigation area's bare and unprotected slopes. Straw wattles are being placed in the required areas.

**M-4.3.1(39) (City)**

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

**M-4.18 / 178 (City)**

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

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

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

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

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

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

**Surface Water 2.14 (County)**

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

**Current Status/Comments** – The erosion control measures in place by October of last year performed well during the rainy season. The only area where erosion was not controlled is an unvegetated area on the County sage mitigation slope. All temporary drainage V-ditches were in place by the end of September this year. Straw wattles were being installed on all slopes.

**M-4.3.1(41) (City)**

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

**M-4.3.1(43) (City)**

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

**Surface Water 2.10 (County)**

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

**Current Status/Comments** – In early July, Basin A was dry. There was no removal of sediment. Basin D was dry and free of sediment. The Basin D outlet channel was repaired and ready for winter rain events. Basin B was dry. The areas with sloughed hillside soil piles were not removed. The basin floor had minimal sediment. The terminal basin had standing water at the outlet risers.

Sediment was moved into piles in other areas to allow it to dewater and to dry. The skimmer system had not yet been repaired.

In mid-August, Basin B had a minimal amount of dry sediment stockpiled and ready for removal. The eastside drainage channel from the Adler tank farm south was not yet cleared of sediment. Sediment was being removed from the terminal basin. The basin was approximately 25% cleared. The sediment was wet and spongy from the gabion wall to the outlet risers.

In late August, Basin A had sediment moved to the center of the basin for removal. Basin B had dry sediment moved to a pile ready for removal. The eastside drainage channel was cleaned to the Adler tank farm. Sediment, rock, and debris was not removed from the tank farm to the terminal basin. The terminal basin had the inlet water flow blocked by a dirt berm. Dry sediment was being removed. A significant amount of sediment from the gabion wall to the outlet risers had not been moved into piles to dry. The skimmer system has not yet been repaired.

In late September, Sediment was removed from the center area of Basin A. Sediment around the interior wall was being piled for removal. Rock around the outlet risers was not yet cleaned. Basin B had a small pile of sediment ready for removal. The eastside channel had sediment, debris, and gabion rock not yet removed from the Adler tank farm to the terminal basin. Sediment in the terminal basin had been removed to the gabion wall, and wet sediment east of the wall in the outlet side is being trucked away. The outlet channel had minimal sediment on the channel floor. The outlet skimmers were still buried in sediment and had not yet been repaired.

#### **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 website and in the annual report.*

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

##### *Surface Water Preventive Maintenance Program*

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

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

**Current Status/Comments** – During the 3rd Quarter, a preventative maintenance program with inspection of facility equipment, systems, and storm water management devices to detect

conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater should be performed on a monthly basis, with a summary report issued on a quarterly basis. These reports have been reviewed and are available at the landfill's main office.

The high-flow spillway for Basin D into the westside drainage has cracks and spalling that should be repaired. The outlet riser that discharges into the eastside channel does not have top guards to restrict unauthorized access. The Basin B high-flow outlet spillway was cracked in multiple places. The terminal basin has vegetation growing in the interior concrete sidewalls.

In early July, the Basin D outlet channel was repaired and is ready for winter rains. The concrete outlet structure had the vegetation removed, and cracks and soil erosion repaired. No personnel access limiting guard was on the northern riser.

In mid-August, the old City south soil stockpile south of the office did not have the slope slump increase. The old City south landfill had slopes repaired, and graded and drainage systems repaired and improved. The westside concrete channel with a corrugated pipe downcomer was completed on the old City south landfill. The concrete channel above the CC-4 Part 3 buttress was not complete. The CC-4 Part 3 liner was installed in a southern run-off basin area, and on the north and west slopes.

In late August, the temporary-lined basin in Cell CC-4 Part 3 was completed. The old City south landfill appeared to be ready for winter conditions. The rainwater control gabions were not yet installed on the new paved access road. The drainage channel construction on and adjacent to the CC-4 Part 3 buttress was ongoing.

In late September, the CC-4 Part 1/2 slopes looked manicured with the HDPE drainage systems repaired. No straw wattles had been installed. The Closure Turf looked well-maintained. The depression in the old City south landfill stockpile had not changed. A new section of the permanent westside drainage channel was being installed below the CC-4 Part 3 buttress. The outlet from Basin A was not yet constructed.

#### **M-4.3.2(50) (City)**

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

**Current Status/Comments** – The old City north top deck has a tank farm of 16 Alder storage tanks for processing recovered leachate and condensate, with a double-walled pipeline to the sewer connection at the entrance near San Fernando Road. This system operated with no odor detected at the sewer connection. Tank farm liquids were being treated with hydrogen peroxide.



**M-4.4.1(60) (City)***Venturan Coastal Sage Scrub*

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

**Biota - 4.27 (County)**

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

**Current Status/Comments** – In early July, approximately 60% of the County sage mitigation slope had native vegetation. Last year's rain helped to promote new growth. Native plants are going through summer die-back. The unvegetated area had deep erosion rills.

In mid-August, Deck C sage mitigation area was being maintained and the mustard weed was removed. The area is in maintenance status. Deck B sage mitigation was growing with minimal weeds and non-natives.

In late August, Deck C sage mitigation was doing well with new mustard weed being removed. Deck B sage mitigation was doing well. Non-native plants were being controlled.

In late September, the native vegetation on the County sage mitigation slopes was doing well. Deck C sage mitigation area was doing well. Mustard weed was removed. Some natives showed dieback from hot summer conditions. Deck B sage mitigation area was doing well. Some natives showed dieback from hot summer conditions. There was no mustard weed.

**M-4.4.3/72 (City)**

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

**Biota - 4.10 (County)**

*The permittee shall comply with all terms and Conditions of Oak Tree Permit No. 86-312-(5). The permittee is authorized to remove oak trees within the project areas as necessary to conduct landfill operations authorized by this grant and subject to the requirements of Part VII of the Implementation and Monitoring Program attached to Oak Tree Permit 86-312-(5). Prior to approving any excavation of more than five acres containing significant stands of oak and/or Douglas fir trees, the Director of Public Works shall confer with the Los Angeles County Forester and Fire Warden.*

**Current Status/Comments** – An updated mitigation tree report was completed, showing the number and type of mitigation trees required to be planted. A schedule for planting had not been prepared.

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

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

**Current Status/Comments** – During the 3rd Quarter, the City was proceeding with an ordinance to allow the wetlands and riparian mitigation to be created in the Chatsworth Reservoir. All environmental analysis has been completed. Republic stated that a change in City staffing has delayed the process of finalizing and adopting the ordinance. Time extension letters from the US Corps of Engineers and the California Department of Fish and Wildlife are in place. New extension letters will be needed in 2020.

**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 services 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 website.*

**Current Status/Comments** – In early July, the monitor drove San Fernando Road to Sierra Highway. This area is maintained by Republic and was clear of illegally dumped debris and litter.

In late August, the monitor drove Sierra Highway, and illegally dumped trash and debris was observed near the I-14 overpass.

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

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

**Current Status/Comments** – Throughout the 3rd Quarter of 2019, the south oil field gate and north perimeter gate were observed to be closed and 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 3rd Quarter of 2019, the paleontologist was monitoring grading activities in and adjacent to Cell CC-4 Part 3 buttress construction when grading occurred in native, undisturbed areas.

## Summary of Requested Documents

### Part I – Reports and Plans

Previously requested documents, reports and plans to be made available on site were reviewed in printed and electronic formats. The monitors verified the following to be available to the monitors and agencies' staff.

a) Current Fill Sequence Plan.

Current Fill Sequence Plans are available electronically and are updated at least weekly.

b) A plan showing areas that are inactive for 180 days or longer, with records tracking fill areas and interim reclamation and revegetation, including the timing of proposed work, as well as a plan showing current and projected areas to be within ten feet of the limits of fill.

These plans are electronically available onsite.

c) Maps showing areas that are at final elevation, and bench ditches that will connect to drainage ditches to protect against natural surface runoff.

Active City and County areas showing areas at final elevations were not observed. To date, no active areas have reached their final elevation. Trash elevations of inactive fill areas that have current or had prior stockpiled soil are not known.

d) The current erosion control plans.

Current erosion control plans were available electronically.

e) Site drainage plans, including surface and underdrain systems, with complementing revegetation plans.

Site drainage plans were available electronically.

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.

The plan was available electronically.

g) Comprehensive geotechnical reports.

The reports were available electronically.

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.

Printed copies were available.

## Part II – Logs and Records

Previously requested logs, records, safety and procedural documents to be made available on site were reviewed in printed and electronic formats. The monitors verified the following to be available to the monitors and agencies' staff.

- a) Refuse Inspection Program (random load checks for prohibited waste)
- b) Hazardous Waste Load-Checking (flammable, corrosive and toxic waste)
- c) Spill Response Program (spill prevention, control and clean up procedures)
- d) Safety Inspections, Training and Checklists (for employees, contractors and vendors)
- e) Accident/Injury reports, Inspections (records of accidents and injuries)
- f) Personal Protective Equipment (including hard hats, safety vests and safety glasses)
- g) Hazardous Waste Disposal (procedures for disposal of toxic, ignitable or reactive ingredients)
- h) Hazardous Waste Procedures (procedures for handling toxic, ignitable or reactive ingredients)
- i) Injury and Illness Prevention Program (procedures to ensure OSHA compliance with health and safety in the workplace)
- j) Prohibited Waste Procedures (procedures for handling prohibited waste such as car batteries, used motor oil, tires and untreated medical waste)
- k) Lockout, Tagout and Blackout Procedures (specific practices and procedures to safeguard employees from the unexpected energization or startup of machinery and equipment)
- l) Accident Prevention Signs and Tags (included in the OSHA safety training for employees)
- m) Fire Response Procedures (included in the OSHA safety training for employees)
- n) Fire Hoses on Water Trucks (included in the OSHA safety training for employees)
- o) Heat Stress Prevention (included in the OSHA safety training for employees)
- p) Fire Extinguisher Training (included in the OSHA safety training for employees)
- q) Emergency Response and Evacuation Plan (included in the OSHA safety training for employees)
- r) Hearing Conservation (program designed to protect workers from hearing impairment)
- s) Stormwater Pollution Prevention (a site-specific document that identifies all of the activities and conditions onsite that could cause water pollution, and the steps the facility will take to prevent such a discharge)
- t) Confined Space Requirements (set requirements so employees have enough space to work, and systems to ensure limited or restricted means of entry or exit to confined spaces)

- u) Adverse Weather (procedures for maintaining work safety during severe weather conditions)
- v) Drug and Alcohol-Free Workplace Procedures (procedures committed to the elimination of drug and alcohol use and abuse in the workplace)
- w) Bloodborne Pathogens (procedures to protect employees from infectious microorganisms in human blood that can cause disease in humans. These pathogens include hepatitis B (HBV), hepatitis C (HCV) and human immunodeficiency virus (HIV); needlesticks and other sharps-related injuries may expose workers to bloodborne pathogens)
- x) Rollovers (procedures to help prevent truck and equipment rollovers; addresses poor driving conditions, speeding, driver fatigue and distracted driving; part of Republic's Focus 6 Program)
- y) Asbestos Safety and Respiratory Protection (procedures to help prevent respiratory injury to employees; includes the use of respirators and specialized clothing)
- z) Slips, Trips and Falls (procedures to help prevent slips, trips and falls; includes keeping walkways clear, use of handrails, use of proper footwear and managing power cords)
- aa) Conduct Hazardous Assessment (identify hazards and risk factors that have the potential to cause harm)
- bb) Industrial Truck Training (safety training for machines such as fork lifts and lift trucks; part of Republic's Focus 6 Program)
- cc) Radiation Awareness (procedures and training to increase employee understanding of radiation and radioactivity, and how to manage encounters with radioactive materials)
- dd) Hazardous Communication (physical and health hazards; a set of processes and procedures that employers must implement in the workplace to effectively communicate hazards associated with chemicals during handling, shipping, and any form of exposure)

## 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 compliance status is not being actively monitored by UltraSystems.

The 2019 Third Quarter Mitigation Monitoring Summary spreadsheets track the progress and completion of tasks as they were accomplished during this quarterly period.

Sunshine Canyon Landfill City Mitigation Monitoring Summary  
(07-01-2019 through 09-30-2019)

	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Second Quarter 2019																Third Quarter 2019															
					4/11/2019	Status*	Further Review Needed/Comments**	Resolved*	5/7/2019	Status*	Further Review Needed/Comments**	Resolved*	5/28/2019	Status*	Further Review Needed/Comments**	Resolved*	6/11/2019	Status*	Further Review Needed/Comments**	Resolved*	7/9/2019	Status*	Further Review Needed/Comments**	Resolved*	8/13/2019	Status*	Further Review Needed/Comments**	Resolved*	8/27/2019	Status*	Further Review Needed/Comments**	Resolved*	9/25/2019	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		
9	Q - B.2.c.		Ancillary Uses and Facilities	ongoing	✓	FRN	I-e	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		
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		
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		
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		
17	Q - C.3.h.		Surfacing of Access Roads	ongoing	✓	C	I-e	✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	NONE		✓	C	NONE		✓	C	I-l		
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		
19	Q - C.10.c.		Evaluation of Beneficial Gas Usage	June yearly	✓	FRN	I-e	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		
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																																				

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26	T - 4		Fire Plan	status	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
27	T - 5.j.		Trip Diversion	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
28	T - 6		Satisfactory Street Lighting	status	/				/				/				/				/				/				/				/			
29																																				
30	M - 4.1.1	7	Reabandonment Procedures	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
31	M - 4.1.4	11	Post-5.0 Earthquake Analysis	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		✓	FRN	I-i		/	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	
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	
34	M - 4.2.12	28	Site Erosion-Cover	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
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	
36	M - 4.2.12		Site Erosion-Sealant	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
37	M - 4.2.13	29	LFG Control Measures	ongoing	/		I-e		/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l	
38	M - 4.2.13	30	Operational Odor Control Techniques	ongoing	/		I-e		/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l	
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	
40	M - 4.2.13	32	LFG Collection and Recovery System	ongoing	/		I-e		/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l	
41	M - 4.2.13	33	Odor Control Measures	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
42	M - 4.2.13	34	Odor/LFG Monitoring	ongoing	/		I-e		/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l	
43			Periodic LFG Monitoring		/		I-e		/		I-f		/		I-g		/		I-h		/		I-i		/		I-j		/		I-k		/		I-l	
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	
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	
46	M - 4.4.2	69	Offsite Mitigation Sites	status	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
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	
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	

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51	M - 4.9.3	106	Litter Minimization	ongoing	✓	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					
53	M - 4.9.3	108	Vehicle Tarping Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE					
54	M - 4.9.3	109	Periodic Offsite Litter Pickup	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE					
55	M - 4.9.3	110	Illegal Dumping Activities	ongoing	✓	FRN	I-e		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	I-i		✓	C	NONE		✓	FRN	I-k					
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					
57	M - 4.9.3	112	Litter Control	ongoing	✓	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					
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					
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					
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					
64																																				
65	Civil & Geotechnical Engineer																																			
66																																				
67																																				
68	M - 4.1.1	2	Grading Outside of Conceptual Grading Plan Area	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k					
69	M - 4.1.1	3	Unsuitable Material Removal/Buffer Zones	ongoing																																
70	M - 4.1.1	4	Grading Outside of Landfill Footprint	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k					
71	M - 4.1.1	5	Grading Activity Compliance	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k					
72	M - 4.1.2	8	Landslide Guidelines	ongoing																																
73	M - 4.1.2	9	Soil Stabilization	ongoing																																
74	M - 4.1.4	10	Landfill Design	ongoing																																
75	M - 4.1.4	11	Earthquake Operations Checklist	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		✓	FRN	I-i		/	NA	NONE		/	NA	NONE					

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76	M - 4.1.5	12	Geologic Hazards - Liquefaction	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
77	M - 4.1.5	13	Design/Construction-Liquefaction	ongoing																																
78	M - 4.1.5	14	Design/Construction-Containment Structures	ongoing																																
79	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	
80	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	
81	M - 4.1.6	17	Final Slope Factors of Safety	ongoing																																
82	M - 4.1.6	18	Survey Monuments	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
83	M - 4.3.2	47	Landfill Liner	ongoing																																
84	M - 4.3.2	48	Landfill Liner	ongoing																																
85	M - 4.3.2	54	Preliminary Closure/Postclosure Plan	status																																
86	M - 4.3.2	55	Landfill Design/Operation/Final Closure Monitoring	status																																
87	M - 4.3.2	56	Cover Application	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
88	M - 4.14.1	155	Access Roadway Grade	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
89	M - 4.18	178	Landfill Elevation Exceedance	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
90																																				
91	Hydrologist																																			
92																																				
93																																				
94	M - 4.1.4	11	Earthquake Operations Checklist	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		✓	FRN	I-i		/	NA	NONE		/	NA	NONE		/	NA	NONE	
95	M - 4.3.1	36	Surface Water Infiltration Minimization	ongoing																																
96	M - 4.3.1	37	Surface Drainage Systems	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
97	M - 4.3.1	38	Permanent/Temporary Ditches	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
98	M - 4.3.1	39	Drainage Protection	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
99	M - 4.3.1	40	SWRCB Permit Coverage	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
100	M - 4.3.1	41	Surface Water Collection System	ongoing																																
101	M - 4.3.1	42	Surface Water Quality Monitoring	ongoing																																
102	M - 4.3.1	43	Sediment Basin Maintenance	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	

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103	M - 4.3.1	44	Final Landfill Cover	ongoing																																
104	M - 4.3.1	45	Erosion Control Plan	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
105	M - 4.3.1	46	Preventive Maintenance Program	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
106	M - 4.3.2	49	Interception of Groundwater Seepage	ongoing																																
107	M - 4.3.2	50	LCRS/Leachate Monitoring	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
108	M - 4.3.2	51	LCRS Monitoring	ongoing																																
109																																				
110	Biologist																																			
111																																				
112																																				
113	M - 4.1.1	6	Slope Erosion Control	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
114	M - 4.2.11	23	Revegetation/Excavation	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
115	M - 4.2.12		Temporary Vegetation Cover	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
116	M - 4.4.1	60	Coastal Sage Scrub Mitigation Plan	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
117	M - 4.4.1	61	Coastal Sage Scrub Seeding	ongoing																																
118	M - 4.4.1	62	Mariposa Lily Mitigation Plan	ongoing	/				/				/				/				/				/				/				/			
119	M - 4.4.1	63	San Diego Horned Lizard Mitigation	ongoing	/				/				/				/				/				/				/				/			
120	M - 4.4.1	64	California Gnatcatcher Surveys	ongoing	/				/				/				/				/				/				/				/			
121	M - 4.4.1	65	Least Bell's Vireo Surveys	ongoing	/				/				/				/				/				/				/				/			
122	M - 4.4.1	66	Western Burrowing Owl Surveys	ongoing	/				/				/				/				/				/				/				/			
123	M - 4.4.1	67	Migratory Bird Treaty Act	ongoing	/				/				/				/				/				/				/				/			
124	M - 4.4.1	68	Raptor Nests Habitat	ongoing	/				/				/				/				/				/				/				/			
125	M - 4.4.3	72	Native Tree Mitigation	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
126	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	
127	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	
128	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	
129	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	

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Sunshine Canyon Landfill City Mitigation Monitoring Summary  
(07-01-2019 through 09-30-2019)

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130	M - 4.4.3	77	Backfill Material	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
131	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	
132	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	
133	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	
134	M - 4.4.3	81	Irrigation System	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
135	M - 4.4.3	82	Annual Tree Monitoring Report	annual	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
136	M - 4.9.2	96	Vector Activity Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
137	M - 4.9.2	97	Vector Elimination	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
138	M - 4.9.2	98	Fly Control	ongoing																																
139	M - 4.9.2	99	Rodent Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
140	M - 4.9.2	100	Operational Vector-Limiting Activity	ongoing																																
141	M - 4.9.2	101	Equipment Cleanliness/Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
142	M - 4.9.2	102	Storage of Vector-Attracting Items	ongoing																																
143	M - 4.9.2	103	Salvaged Material Storage-Vector Control	ongoing																																
144	M - 4.9.2	104	Periodic Vector Inspections	ongoing																																
145	M - 4.9.2	105	Implementation of Vector Control Measures	ongoing																																
146																																				
147	Air Quality & Noise Specialist																																			
148																																				
149																																				
150	M - 4.2.11	19	Emissions Mitigation Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
151	M - 4.2.11	19	Construction Curtailing due to Pollution	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
152	M - 4.2.11	20	Dust Lofting Minimization	ongoing																																
153	M - 4.2.11	21	Wind Speed Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
154	M - 4.2.11	22	Grading-Dust Reduction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
155	M - 4.2.12	24	Construction Equipment Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
156	M - 4.2.12		Construction Curtailing due to Pollution	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	

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157	M - 4.2.12	25	Refuse Trucks-Maintenance	ongoing																																
158	M - 4.2.12		Refuse Trucks-Engine	ongoing																																
159	M - 4.2.12		Refuse Trucks-Fee Schedule	ongoing																																
160	M - 4.2.12		Refuse Trucks-Fee Schedule Delivery Time	ongoing																																
161	M - 4.2.12		Refuse Trucks-Idling	ongoing																																
162	M - 4.2.12		Refuse Trucks-Emissions	ongoing																																
163	M - 4.2.12	26	Truck Travel and Fugitive Dust Emissions	ongoing																																
164	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																																
165	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																																
166	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																																
167	M - 4.5.2	83	Landfill Hours	info	/			/				/				/				/			/				/			/						
168	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		
169																																				
170	Hydrology, Hazardous Waste / Risk of Upset																																			
171																																				
172																																				
173	M - 4.3.2	53	Groundwater Monitoring Wells	ongoing																																
174	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		
175	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		
176	M - 4.9.1	90	Refuse Inspection Program	ongoing																																
177	M - 4.9.1	91	Hazardous Waste Load-Checking	status																																
178	M - 4.9.1	93	Hazardous Waste Detection Training	status																																
179	M - 4.9.1	94	Spill Response Program	status																																
180	M - 4.9.4	115	Safety Inspections/Checklists	ongoing																																
181	M - 4.9.4	118	Accident/Injury reports, Inspections	status																																
182	M - 4.9.4	121	Fire Prevention Plan	ongoing	✓	FRN	I-e	✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		

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183	M - 4.9.4	123	Personal Protective Equipment	ongoing																																
184	M - 4.9.4	125	Site Access/Fencing	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
185	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	
186	M - 4.14.1	148	Hydrant Installation	ongoing																																
187																																				
188	Archaeologist																																			
189																																				
190																																				
191	M - 4.19.1	183	Archaeological Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
192	M - 4.19.1	184	Onsite Archaeologist	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
193	M - 4.19.1	185	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
194	M - 4.19.1	186	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
195																																				
196	Paleontologist																																			
197																																				
198																																				
199	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	
200	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	
201	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	
202	M - 4.19.2	190	Paleontological Resources Recovery	ongoing																																
203	M - 4.19.2	191	Paleontological Resources Inspection	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	

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

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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																																	
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-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		
47	Groundwater - 3.13		Groundwater-LFG Migration Mitigation	ongoing																																	
48	Groundwater - 3.14		Groundwater-Monitoring Wells	ongoing																																	
49	BIOTA – 4.05		Annual Fee Submission for SEA Studies	status	/				/				/				/				/			/				/				/					
50	BIOTA – 4.06		Buffer Zone Maintenance as Nature Preserve	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
51	BIOTA – 4.07		Buffer Zone Maintenance-Vegetation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
52	BIOTA – 4.08		Ridgeline Maintenance-Remain Undisturbed	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
53	BIOTA – 4.47		Cleaning of Equipment	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
54	BIOTA – 4.48		Monitoring of Vector-Attracting Items	ongoing																																	
55	BIOTA – 4.49		Salvaged Material Storage-Vector Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
56	BIOTA – 4.50		Vector Activity Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
57	Air Quality - 6.03		Dust Emission Minimization	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		

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58	Air Quality - 6.04		Usage of Cut Material for Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
59	Air Quality - 6.05		Operations in Accordance with SCAQMD/DOPW Requirements	info	/				/				/				/				/				/				/				/			
60	Air Quality - 6.06		Landfill Gas Control/Extraction System/Monitoring	ongoing	/				/				/				/				/				/				/				/			
61	Air Quality - 6.07		Flaring Systems	info	/				/				/				/				/				/				/				/			
62	Air Quality - 6.08		Management of Truck Arrivals	ongoing																																
63	Air Quality - 6.10		Refuse Truck Mitigation	status																																
64	Air Quality - 6.11		Light Duty Alternative Fuel Vehicles	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
65	Air Quality - 6.11		Alternative Fuel Refuse Collection/Transfer Trucks	status																																
66	Air Quality - 6.11		Alternative Fuel Vehicle Report Submission	status																																
67	Air Quality - 6.11		Heavy-duty, Alternative Fuel Off-Road Equipment Pilot Program	status																																
68	Air Quality - 6.11		Non-Diesel, Alternative Fuel Vehicles-Transfer/Collection Trucks	status																																
69	Air Quality - 6.11		Non-Diesel, Alternative Fuel Vehicles Truck Trips	status																																
70	Air Quality - 6.11		Clean Fuel Demonstration Program	status																																
71	Air Quality - 6.11		Compliance Evaluation	status																																
72	Odor/Landfill Gas – 7.01		Landfill Gas Escape Prevention	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
73	Odor/Landfill Gas – 7.02		Landfill Gas Collection System	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
74	Odor/Landfill Gas – 7.04		Gas Collection/Flare System Risk Mitigation	ongoing																																
75	Odor/Landfill Gas – 7.05		Wellhead Awareness	status	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
76	Odor/Landfill Gas – 7.06		Odor Control Measures	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
77	Odor/Landfill Gas – 7.07		Gas Recovery and Sale	status	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
78	Traffic/Circulation – 8.03		Street Light Installation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
79	Traffic/Circulation – 8.04		Truck Traffic Minimization	status																																
80	Traffic/Circulation – 8.08		Tipping Fees for Partial Loads/Peak Hours	status																																
81	Traffic/Circulation – 8.10		Nighttime Landfill Operations Feasibility	status	/				/				/				/				/				/				/				/			
82	Traffic/Circulation – 8.11		Parking Management along San Fernando Road	status	/				/				/				/				/				/				/				/			
83	Traffic/Circulation – 8.13		Adequate Queuing	status																																
84	Visual – 10.03		Landfill Flare Locations	status	/				/				/				/				/				/				/				/			

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85	Visual – 10.04		Confinement of Excavation Cover Material	status																																
86	Visual – 10.05		Lighting Requirements	status																																
87	Visual – 10.11		Litter Control Program	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
88	Visual – 10.11		Solid Waste Load Procedures-Improperly Covered/Contained	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
89	Visual – 10.11		Debris Removal at Entrance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
90	Visual – 10.11		Litter Control-Fencing	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
91	Visual – 10.11		Periodic Litter Pickup	ongoing	✓	FRN	I-e		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-i		✓	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	
95	Recycling - 14.01		On-site Waste Diversion/Recycling	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
96	Recycling - 14.03		Tonnage Disposal Determination	info	/				/				/				/				/				/				/				/			
97	Recycling - 14.04		Recycling-Various Tasks	info	/				/				/				/				/				/				/				/			
98			Clean Dirt Procedures																																	
99	Site - 15.11		Reclaimed Water Utilization	status	/				/				/				/				/				/				/				/			
100	Site - 15.12		Water Conservation Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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	
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	
127																																				
128	Geology - 1.01		Survey Monument Locations	ongoing																	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
129	Geology - 1.02		Seismic Design	ongoing																																
130	Geology - 1.03		Maximum Refuse Slope Gradients	ongoing																																

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131	Geology - 1.04		Maximum Refuse Slope Gradients	ongoing																																
132	Geology - 1.05		Unsuitable Material Procedures	ongoing																																
133	Geology - 1.06		Grading Activities Procedures	ongoing																																
134	Geology - 1.07		Grading Activities Procedures	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
135	Geology - 1.09		Outer Perimeter Ridgeline Requirements	info																																
136	Geology - 1.12		Soil Stabilization	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
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	
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	
142	Surface Water - 2.05		Underdrain Requirements	ongoing																																
143	Surface Water - 2.06		Final Cover for Surface Water Runoff Control	ongoing																																
144	Groundwater - 3.02		Liner System Requirements	ongoing																																
145	Groundwater - 3.04		Onsite Inspector for Liner Installation	ongoing																																
146	Groundwater - 3.09		Alluvium Removal	ongoing																																
147	Visual – 10.01		Landfill Elevations	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
148	Visual – 10.02		Final Fill Elevations	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
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-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
159	Surface Water - 2-04		Sedimentation Basin Capabilities	ongoing																																

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160	Surface Water - 2.05		Underdrain Placement	ongoing																																
161	Surface Water - 2.07		Drainage Control System Design Approval	ongoing																																
162	Surface Water - 2.08		Surface Water Runoff-Drainage System	ongoing																																
163	Surface Water - 2.10		Surface Water Collection System-Monitoring	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
164	Surface Water - 2.11		Surface Water Quality-Collection/Monitoring	ongoing																																
165	Surface Water - 2.12		Permanent/Temporary Drainage Facilities	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
166	Surface Water - 2.13		Permanent/Temporary Drainage Facilities	ongoing																																
167	Surface Water - 2.14		Erosion Control Plan	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
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-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
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-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
181	Geology - 1.14		Personnel Retention for Monitoring Soil Erosion	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
182	Groundwater - 3.11		Irrigation/Revegetation Management-Personnel Retention	ongoing																																
183	BIOTA – 4.10		Oak Tree Permit	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
184	BIOTA – 4.11		Oak Tree Mitigation Plan	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
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	
186	BIOTA – 4.20		Poultry Wire Screen	ongoing	✓	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	
188	BIOTA – 4.27		Coastal Sage Scrub Mitigation Plan	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
189	BIOTA – 4.28		Coastal Sage Scrub Seeding	ongoing																																

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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	
191	BIOTA – 4.30		California Gnatcatcher Surveys	ongoing	✓	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	
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	
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	
195	BIOTA – 4.34		Raptor Nests Habitat	ongoing	✓	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-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
202	BIOTA – 4.43		Replacement Riparian Habitat	status	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
203	Air Quality - 6.02		Dust Control	ongoing	✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l	
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-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
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	
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	
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	
211	Visual – 10.09		Final Cover Composition Requirements	ongoing																																
212	Visual – 10.10		Buffer Zone Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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	
215																																				
216	Air Quality & Noise Specialist																																			
217																																				
218																																				

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## Sunshine Canyon Landfill County Mitigation Monitoring Summary (07-01-2019 through 09-30-2019)

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Second Quarter 2019																Third Quarter 2019															
					4/1/2019	Status*	Further Review Needed/Comments**	Resolved*	5/7/2019	Status*	Further Review Needed/Comments**	Resolved*	5/28/2019	Status*	Further Review Needed/Comments**	Resolved*	6/11/2019	Status*	Further Review Needed/Comments**	Resolved*	7/9/2019	Status*	Further Review Needed/Comments**	Resolved*	8/13/2019	Status*	Further Review Needed/Comments**	Resolved*	8/27/2019	Status*	Further Review Needed/Comments**	Resolved*	9/25/2019	Status*	Further Review Needed/Comments**	Resolved*
219	Fugitive Dust - 45.F	45.F	Fugitive Dust Monitoring	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
220	Fugitive Dust - 45.I	45.I	Paved Roads-Cleaning	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
221	Fugitive Dust - 45.N	45.N	Report Submission-Dust/Odor	every quarter																																
222	Air Quality Monitoring - 81	81	Air Quality Monitoring-Tests	ongoing																																
223																																				
224																																				
225	Air Quality – 6.01		Fugitive Dust Aversion	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
226	Air Quality – 6.01		Working Face Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
227	Air Quality – 6.01		Erosion Control-Daily Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
228	Air Quality – 6.01		Soil Stockpile Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
229	Air Quality – 6.01		Active Area Fill	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
230	Air Quality – 6.01		Soil Sealant	ongoing																																
231	Air Quality – 6.01		Dust Emissions-Road Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
232	Air Quality – 6.01		Access Roads-Paving	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
233	Air Quality – 6.01		Dust Generation-Dumping	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
234	Air Quality – 6.01		Water Tanks/Piping Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
235	Air Quality – 6.01		Wind Speed Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
236	Air Quality – 6.01		Report Submission-Dust/Odor	every quarter	/				/				/				/				/				/				/				/			
237	Odor/Landfill Gas – 7.03		Odor/Landfill Gas Monitoring Program	ongoing	/				/				/				/				/				/				/				/			
238	Odor/Landfill Gas – 7.03		Landfill Surface Sampling	ongoing	/				/				/				/				/				/				/				/			
239	Odor/Landfill Gas – 7.03		Landfill Perimeter Air Samples	ongoing	/				/				/				/				/				/				/				/			
240	Odor/Landfill Gas – 7.03		Landfill Surface Monitoring	ongoing	/				/				/				/				/				/				/				/			
241	Odor/Landfill Gas – 7.03		LFG Collection System Monitoring	ongoing	/				/				/				/				/				/				/				/			
242	Noise – 9.01		Landfill Access/Operation	info	/				/				/				/				/				/				/				/			
243	Noise – 9.03		Landfill Equipment-Mufflers/Silencers	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
244	Admin Rpts/ Pgms-17.16		Air Quality Monitoring-Corrective Action Plan	ongoing	/				/				/				/				/				/				/				/			
246																																				
247	Hydrology, Hazardous Waste / Risk of Upset																																			
248																																				

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# Sunshine Canyon Landfill County Mitigation Monitoring Summary (07-01-2019 through 09-30-2019)

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Second Quarter 2019																Third Quarter 2019															
					4/11/2019	Status*	Further Review Needed/Comments**	Resolved*	5/7/2019	Status*	Further Review Needed/Comments**	Resolved*	5/28/2019	Status*	Further Review Needed/Comments**	Resolved*	6/11/2019	Status*	Further Review Needed/Comments**	Resolved*	7/9/2019	Status*	Further Review Needed/Comments**	Resolved*	8/13/2019	Status*	Further Review Needed/Comments**	Resolved*	8/27/2019	Status*	Further Review Needed/Comments**	Resolved*	9/25/2019	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	
254	Fire Service - 12.02		On-site Fire Response Capabilities-Operating Equipment	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
255	Fire Service - 12.03		On-site Fire Response Capabilities-Roads/Water	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
256	Fire Service - 12.04		On-site Fuel Storage Tanks-Permit Issuance	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
257	Fire Service - 12.05		Building Limits	ongoing	✓	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	
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-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
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	
277	Archaeological – 5.01		Archaeological Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	

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278	Archaeological – 5.02		Onsite Archaeologist	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
279	Archaeological – 5.03		Onsite Paleontologist	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
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	
281	Archaeological – 5.05		Archaeological Resource Curation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
282																																				
283	Paleontologist																																			
284																																				
285																																				
286	Ecological Significance - 62	62	Archaeological/Paleontological -Material Identification/Conservation	ongoing	✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l	
287	IMP - Part VII.B	IMP7	Archaeological/Paleontological-Report Submission	ongoing																																

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## **Appendix I**

### **Further Review Needed Comments: Reference I-i through I-l Third Quarter 2019 Site Visits**

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Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	Q – B.2.c		City Planning	I-i through I-l: There was no grading outside of the approved landfill development limits during the 3rd Quarter. Cell CC-4 Part 3 was the only development area where grading and liner installation was occurring. Liner installation is scheduled for completion in October. Cover material was being moved from the County top deck.
		Geology - 1.07	County DPW EPD/SCL-LEA	I-i through I-l: See Q – B.2.c above.
		Geology - 1.12	County DPW EPD/SCL-LEA	I-i through I-l: See Q – B.2.c above.
	Q - C.3.h		City Planning	I-i: In July, early morning disposal trucks that were using dirt roads near the County Bowl area created dust clouds. Water trucks were not yet operating.  I-l: In September, trucks hauling wet material to the County top deck stockpiles were creating dust clouds on un-watered roads.
	Q - C.10.c		City Planning	I-i: The gas-to-energy plant was using 9058 SCFM of recovered landfill gas, 44% CH <sub>4</sub> , 0.8% O <sub>2</sub> , 88 ppm H <sub>2</sub> S. Flare 1: not monitored; Flare 3: shut down; Flare 9: 2514 SCFM; Flare 10: 2537 SCFM; Flare 11: 2562. The total volume of landfill gas being recovered was 16,658 SCFM.  I-j: The gas-to-energy plant was using 8904 SCFM of recovered landfill gas, 45% CH <sub>4</sub> , 0.4%, 99 ppm H <sub>2</sub> S. Flare 1: 2524 SCFM; Flare 3: 2374 SCFM; Flare 9: 2863 SCFM; Flare 10: 2861 SCFM; Flare 11: down for maintenance. The total volume of landfill gas being recovered was 19,427 SCFM.  I-k: The gas-to-energy plant was using 9210 SCFM of recovered landfill gas, 46% CH <sub>4</sub> , 0.5% O <sub>2</sub> , 94 ppm H <sub>2</sub> S. Flare 1: 2526 SCFM; Flare 3: 2294 SCFM; Flare 9: shut down; Flare 10: 2735 SCFM; Flare 11: 2772 SCFM. The total volume of landfill gas being recovered was 19,537 SCFM.  I-l: The gas-to-energy plant was using 7911 SCFM of recovered landfill gas, 44% CH <sub>4</sub> , 0.9% O <sub>2</sub> , 100 ppm H <sub>2</sub> S. Flare 1: 2354 SCFM; Flare 3: 2712 SCFM; Flare 9: 3374 SCFM; Flare 10: down for maintenance; Flare 11: 3411 SCFM. The total volume of landfill gas being recovered was 19,762 SCFM.  I-i through I-l: The quantity of landfill gas being recovered during the 3rd Quarter has a daily average of 18,846 SCFM, with the gas-to-energy plant usage averaging 8771 SCFM. An expansion of the gas-to-energy plant or different beneficial-use facility should be evaluated.
		Odor/Landfill Gas - 7.07	County Planning/SCAQMD SCL-LEA	I-i through I-l: See Q - C.10.c above.
		Gas - 52	County DPW EPD/SCL-LEA County Forester Fire Warden	I-i through I-l: See Q - C.10.c above.
	T-4		City Planning, City Fire Department	I-i through I-l: 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. It is recommended that the local City fire department station personnel should visit the site and be given the latest facility plot plan showing access roads and facilities.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager		Fire Service - 12.03	County DPW EPD/SCL-LEA County Forester Fire Warden	I-i through I-l: See T-4 above.
	M - 4.1.1 / 7		City Planning, DOGGR	I-i through I-l: The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site was not reabandoned. An evaluation of the need to reabandon this well should be done. This well was not leaking oil or gas, and did not pose a current hazard. It is well beyond the approved landfill limits.
		Re-abandonment Procedures	County Planning, County DPW EPD/SCL-LEA, DOGGR	I-i through I-l: See M - 4.1.1 / 7 above.
	M - 4.1.4 / 11	Post-5.0 Earthquake Analysis	City Planning	The landfill was surveyed for any impacts from the Ridgecrest earthquake and no cracks, fissures, or land movement were observed. Republic had GLA Engineers inspect the landfill after the large earthquake and no site problems were observed.
	M - 4.2.12 / 26 and 28		City Planning/SCAQMD	I-i through I-l: During the 3rd Quarter, Closure Turf was being maintained and gas and liquids recovery systems under the turf were performing well. This cover material was in lieu of vegetation, and controlled and eliminated dust and erosion. The soil stockpiled on the County top deck was being used for daily cover. By the end of September, the soil stockpiled from the CC-4 Part 3 buttress construction was gone.
		Fugitive Dust - 45.F	County DPH/County LEA County DPW-EPD County Biologist	I-i through I-l: See M - 4.2.12 / 28 above.
	M -4.2.13/ 29, 30, 32, 33, and 34		City Planning/SCL-LEA/SCAQMD	I-i through I-l: 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 are reported.
		Amendment 45.N-4.a, 4.c, 4.d	County DPW-EPD	I-i through I-l: See M -4.2.13/ 29, 30, 32, 34 above.
		Amendment 45.N-5	County DPW-EPD	I-i through I-l: 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-i: The monitor drove the Granada Hills neighborhood area from 6:00 to 6:45 a.m. and there were no landfill odors detected. The leachate and condensate Alder tank facility was operating, and strong odors were detected to the northern area of the facility.</p> <p>I-j: The monitor drove the Granada Hills neighborhood areas from 6:15 to 7:00 a.m. and there were no landfill odors detected. The morning operation's tarps were removed at 9:00 a.m. from waste disposed at 6:00 to 7:00 a.m. Trash was not moved by the tarp and no odor was detected within 150 feet. Localized dust was created in moving the tarps.</p> <p>I-k: The monitor drove the neighborhood and school areas from 6:30 to 7:00 a.m. and there were no landfill odors detected. At 8:30 a.m., a trash truck was observed leaving a substantial amount of liquid as it queued in the scale area. The liquid was from the waste and was odorous. The monitor drove the adjacent neighborhood and school area at 9:30 a.m. and no landfill odors were detected. The leachate recovery system below the CC-3B slope was operating and no odors were detected. The alluvial seep was stopped. Localized odors were detected at the north tank of the Adler tank farm leachate and condensate treatment system. Localized odors were coming from a liquids transmission line repair. The repair was completed by approximately 1:00 p.m. Localized odors were detected at Well 3013D on the CC-3A top deck.</p> <p>I-l: The monitor drove the neighborhood and school areas from 6:10 to 6:45 a.m. and there were no landfill odors detected. A new odor control mister system was installed and operating on poles adjacent to the PM-10 berm oak trees. Localized odors were detected near the Basin B outlet channel at approximately 12:00 p.m.</p> <p>I-i through I-l: The use of Closure Turf to seal fill areas and function as intermediate cover provided enhanced gas recovery and gas-related odor control.</p>
	M - 4.2.13 / 34		City Planning/SCAQMD	I-i through I-l: See M-4.2.13/29, 30, and 32 above.
		Odor/Landfill Gas - 7.06	County DPW-EPD/SCL-LEA/SCAQMD	I-i through I-l: See M-4.2.13/33 above.
		Amendment 45.N - 4.a, 4.c, 4.d	County DPW-EPD	I-i through I-l: See M-4.2.13/29, 30, 32, and 34 above.
		Amendment 45.N - 5	County DPW-EPD	I-i through I-l: See M-4.2.13/29, 30, 32, and 34 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Project Manager</b>		Surface Water - 2.15	County DPW EPD/ LARWQCB, SCL- LEA	<p>I-i through I-l: A preventative maintenance program with inspection of facility equipment, systems, and storm water management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater should be performed on a monthly basis, with a summary report issued on a quarterly basis. These reports have been reviewed and are available at the landfill's main office.</p> <p>The high-flow spillway for Basin D into the westside drainage has cracks and spalling that should be repaired. The outlet riser that discharges into the eastside channel does not have top guards to restrict unauthorized access. The Basin B high-flow outlet spillway was cracked in multiple places. The terminal basin has vegetation growing in the interior concrete sidewalls.</p> <p>I-i: The Basin D outlet channel was repaired and is ready for winter rains. The concrete outlet structure had the vegetation removed, and cracks and soil erosion repaired. No personnel access limiting guard was on the northern riser.</p> <p>I-j: The old City south soil stockpile south of the office did not have the slope slump increase. The old City south landfill had slopes repaired, and graded and drainage systems repaired and improved. The westside concrete channel with a corrugated pipe downcomer was completed on the old City south landfill. The concrete channel above the CC-4 Part 3 buttress was not complete. The CC-4 Part 3 liner was installed in a southern run-off basin area and on the north and west slopes.</p> <p>I-k: The temporary lined basin in Cell CC-4 Part 3 was completed. The old City south landfill appeared to be ready for winter conditions. The rainwater control gabions were not yet installed on the new paved access road. The drainage channel construction on and adjacent to the CC-4 Part 3 buttress was ongoing.</p> <p>I-l: The CC-4 Part 1/2 slopes looked manicured with the HDPE drainage systems repaired. No straw wattles had been installed. The Closure Turf looked well-maintained. The depression in the old City south landfill stockpile has not changed. A new section of the permanent westside drainage channel was being installed below the CC-4 Part 3 buttress. The outlet from Basin A was not yet constructed.</p>
	M - 4.4.2/ 69		City Planning	I-i through I-l: The City is proceeding with an ordinance to allow the wetlands and riparian mitigation to be created in the Chatsworth Reservoir. All environmental analysis has been completed. Republic stated that a change in City staffing has delayed the process of finalizing and adopting the ordinance. Time extension letters from the US Corps of Engineers and the California Department of Fish and Wildlife are in place. New extension letters will be needed in 2020.
		Biota - 4.4.3	CDFW	I-i through I-l: See M - 4.4.2 / 69 above.
	M - 4.9.3 / 110		City Planning/City LEA	<p>I-i: The monitor drove San Fernando Road to Sierra Highway. This area is maintained by Republic and was clear of illegally dumped debris and litter.</p> <p>I-k: The monitor drove Sierra Highway and illegally dumped trash and debris was observed near the I-14 overpass.</p>
<b>Civil and Geotechnical Engineer</b>	M - 4.1.1 / 2		City Building and Safety City Planning	I-i through I-l: See M - 4.1.1 / 5 below.

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 / 4		City Planning/LARWQCB Cal Recycle	I-i through I-l: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 5		City Planning/ LARWQCB Cal Recycle	I-i through I-l: The only out-of-approved landfill footprint grading occurring in the 3rd Quarter was related to the approved CC-4 Part 3 buttress-related drainage systems. The only other grading occurring was for development of Cell CC-4 Part 3, removal of stockpiled soils for cover, and grooming of slopes. These activities are inside the approved landfill footprint.
		Geology - 1.07	County DPW EPD/ County LEA	I-i through I-l: See M - 4.1.1 / 5 above.
	M - 4.1.5 / 12		City Planning/LARWQCB Cal Recycle	I-i through I-l: See M - 4.1.1 / 5 above.
	M - 4.1.6 / 18			I-i through I-l: The landfill perimeter boundary survey PVC marker pipes have been removed in areas where Edison pole grading took place, near the Flare 11 site pad grading and near the CC-4 Part 3 buttress. These boundary markers have not been replaced. All markers should be replaced once the Cell CC-4 Part 3 buttress related projects are completed.
	M - 4.14.1 / 155		City Planning/Cal Recycle PW-BOE LADBS City LEA	I-i through I-l: Access roads were being maintained around the working area for emergency access.
	M - 4.18 / 178		City Planning/City LEA	I-i through I-l: 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-i through I-l: See M - 4.18 / 178 above.
<b>Hydrologist</b>	M - 4.3.1/ 37, 38		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	I-i and I-l: 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. Jute netting and straw wattles have performed well during last year's heavy rain events, with only moderate erosion occurring. The only area that had erosion from rain events was in the CC-4 Part 3 buttress area due to active grading that was occurring, and the County sage mitigation area's bare and unprotected slopes. Straw wattles are being placed in the required areas.
		Surface Water - 2.03 Surface Water - 2.12	County DPW EPD/ LARWQCB SCL-LEA	I-i through I-l: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 39		City Planning/LARWQCB Cal Recycle	I-i through I-l: 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 / 40		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-i through I-l: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 43		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	<p>I-i: Basin A was dry. There was no removal of sediment. Basin D was dry and free of sediment. The Basin D outlet channel was repaired and ready for winter rain events. Basin B was dry. The areas with sloughed hillside soil piles were not removed. The basin floor had minimal sediment. The terminal basin had standing water at the outlet risers. Sediment was moved into piles in other areas to allow it to dewater and to dry. The skimmer system had not yet been repaired.</p> <p>I-j: Basin B had a minimal amount of dry sediment stockpiled and ready for removal. The eastside drainage channel from the Adler tank farm south was not yet cleared of sediment. Sediment was being removed from the terminal basin. The basin was approximately 25% cleared. The sediment was wet and spongy from the gabion wall to the outlet risers.</p> <p>I-k: Basin A had sediment moved to the center of the basin for removal. Basin B had dry sediment moved to a pile ready for removal. The eastside drainage channel was cleaned to the Adler tank farm. Sediment, rock, and debris was not removed from the tank farm to the terminal basin. The terminal basin had the inlet water flow blocked by a dirt berm. Dry sediment was being removed. A significant amount of sediment from the gabion wall to the outlet risers had not been moved into piles to dry. The skimmer system has not yet been repaired.</p> <p>I-l: Sediment was removed from the center area of Basin A. Sediment around the interior wall was being piled for removal. Rock around the outlet risers was not yet cleaned. Basin B had a small pile of sediment ready for removal. The eastside channel had sediment, debris, and gabion rock not yet removed from the Adler tank farm to the terminal basin. Sediment in the terminal basin had been removed to the gabion wall, and wet sediment east of the wall in the outlet side is being trucked away. The outlet channel had minimal sediment on the channel floor. The outlet skimmers were still buried in sediment and had not yet been repaired.</p>
		Surface Water - 2.10	LARWQCB / County DPW EPD	I-i through I-l: See M - 4.3.1/ 37, 38 and 43 above.
		Surface Water - 2.14	LARWQCB / County DPW EPD	I-i through I-l: See M - 4.3.1 / 37, 38 and 43 above. The current erosion control plans should be available for agency and monitor review.
	M - 4.3.1/ 46		City Planning/ LARWQCB CalRecycle PW-BOE	I-i through I-l: See 2.15 above.
Biologist	M - 4.3.2 / 50		City Planning/ LARWQCB CalRecycle SCL-LEA	I-i through I-l: The old City north top deck has a tank farm of 16 Alder storage tanks for processing recovered leachate and condensate, with a double wall pipeline to the sewer connection at the entrance near San Fernando Road. This system operated with no odors at the sewer connection. Tank farm liquids were being treated with hydrogen peroxide.



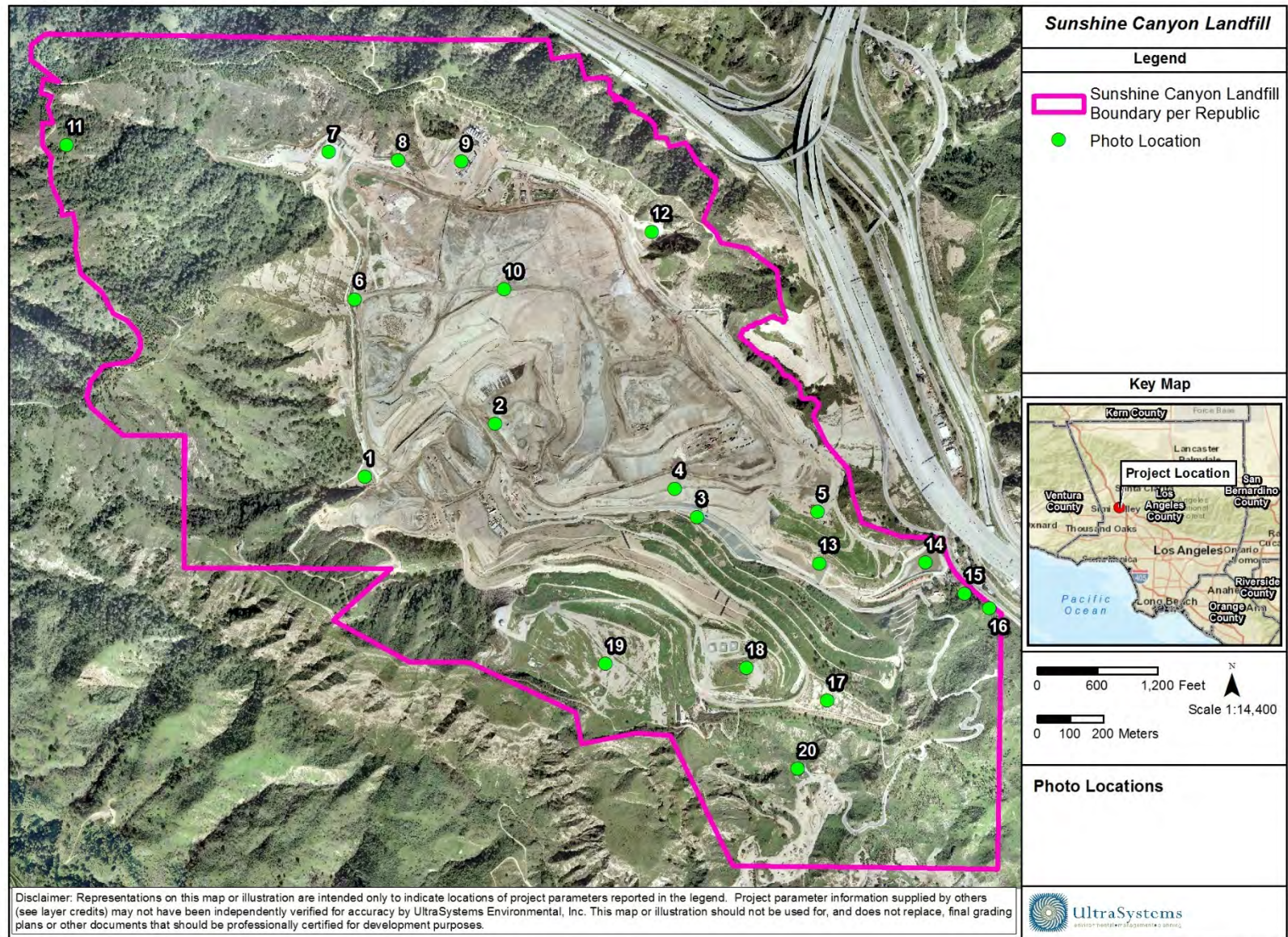
Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Biologist	M - 4.1.1 / 6		City Planning/ LARWQCB CalRecycle SCL-LEA LADBS	I-i through I-l: See M - 4.2.12 / 28 above.
		Geology - 1.14	LARWQCB/ County Forester	I-i through I-l: See M - 4.2.12 / 28 above.
	M - 4.2.11 / 23		City Planning	I-i through I-l: See M - 4.2.12 / 28 above.
		Geology - 1.13	County DPW EPD/ County Forester LARWQCB	I-i through I-l: See M - 4.2.12 / 28 above.
	M - 4.2.12		SCL-LEA/ City Planning	I-i through I-l: See M - 4.2.12 / 28 above.
		Revegetation - 44.A	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-i through I-l: See M - 4.2.12 / 28 above.
		Revegetation - 44.F	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-i through I-l: See M - 4.2.12 / 28 above.
		Biota - 4.42	SCL-LEA	I-i through I-l: See M - 4.2.12 / 28 above.
		Air Quality - 6.02	SCAQMD/ SCL-LEA	I-i through I-l: See M - 4.2.12 / 28 above.
		Visual - 10.08	County Forester	I-i through I-l: See M - 4.2.12 / 28 above.
	M - 4.4.1 / 60		City Planning	<p>I-i: Approximately 60% of the County sage mitigation slope had native vegetation. Last year's rain helped to promote new growth. Native plants are going through summer die-back. The unvegetated area had deep erosion rills.</p> <p>I-j: Deck C sage mitigation area was being maintained and the mustard weed was removed. The area is in maintenance status. Deck B sage mitigation was growing with minimal weeds and non-natives.</p> <p>I-k: Deck C sage mitigation was doing well with new mustard weed being removed. Deck B sage mitigation was doing well. Non-native plants were being controlled.</p> <p>I-l: The native vegetation on the County sage mitigation slopes was doing well. Deck C sage mitigation area was doing well. Mustard weed was removed. Some natives showed dieback from hot summer conditions. Deck B sage mitigation area was doing well. Some natives showed dieback from hot summer conditions. There was no mustard weed.</p>

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Biologist</b>		Biota - 4.27	County LEA/CDFW	I-i through I-l: See M - 4.4.1 / 60 above.
		Biota - 4.10	County LEA/CDFW	I-i through I-l: An updated mitigation tree report was completed, showing the number and type of mitigation trees required to be planted. A schedule for planting has not been prepared.
	M - 4.4.3 / 72		City Planning	I-i through I-l: See Biota - 4.10 above.
	M - 4.9.4 / 121		City Planning/Cal Recycle Cal OSHA LAFD City LEA	I-i through I-l: See T-4 above.
	M-4.9.4/ 125		City Planning/ CalRecycle Cal OSHA SCL-LEA	I-i through I-l: Throughout the 3rd Quarter of 2019, the south oil field gate and north perimeter gate were observed to be locked.
<b>Paleontologist</b>	M-4.19.2/ 191		City Planning	I-i through I-l: The paleontologist was monitoring grading activities in and adjacent to Cell CC-4 Part 3 buttress when grading occurred in native, undisturbed areas.
		Ecological Significance 62	County Planning	I-i through I-l: 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\_2017\_Quarterly\_Report\_#3.mxd  
 Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community; CAL FIRE, 2007; Republic, March 2017; LA County Assessor, 2016-2017

November 13, 2017

## Photo Location Map Key

Map Location	Title	Photo Number
1	Basin A	1 – 21
2	Working Areas, CC4 Part 1, Part 2 and Part 3	22 – 179
3	Closure Turf	180 – 196
4	CC-3A and CC-3B	197 – 214
5	Old City North and South	215 – 250
6	County Sage Mitigation and Westside Drainage Channel	251 – 282
7 & 8	Basin D, Basin D Outlet Channel	283 – 291
9	Flares 9, 10, 11 and Gas-to-Energy Facility	292 – 293
10	County Top Deck	294 – 324
11	Big Cone Fir Mitigation	–
12	Basin B	325 – 359
13	Eastside Drainage Channel and Terminal Basin Inlets	359 – 381
14	Terminal Basin	382 – 420
15	Sewer Lift Station and Graywater Facility	–
16	Retaining Wall at San Fernando Road	–
17, 18 & 19	City Decks A, B and C Sage Mitigation Areas	421 – 437
20	Southern Ownership Buffer	438 – 442
–	General Site	443 – 472





**Photo 1: Basin A: July 9, 2019**



**Photo 2: Basin A: July 9, 2019**



**Photo 3: Basin A: July 9, 2019**



**Photo 4: Basin A: July 9, 2019**





**Photo 5: Basin A: Aug 13, 2019**



**Photo 6: Basin A: Aug 13, 2019**



**Photo 7: Basin A: Aug 13, 2019**



**Photo 8: Basin A: Aug 13, 2019**





**Photo 9: Basin A: Aug 13, 2019**



**Photo 10: Basin A: Aug 13, 2019**



**Photo 11: Basin A: Aug 13, 2019**



**Photo 12: Basin A: Aug 13, 2019**





**Photo 13: Basin A: August 27, 2019**



**Photo 14: Basin A: August 27, 2019**



**Photo 15: Basin A: August 27, 2019**



**Photo 16: Basin A: September 25, 2019**





**Photo 17: Basin A: September 25, 2019**



**Photo 18: September 25, 2019**



**Photo 19: September 25, 2019**



**Photo 20: Basin A: September 25, 2019**





**Photo 21: Basin A: September 25, 2019**



**Photo 22: Site Early Morning Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 23: Site Early Morning Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 24: Site Early Morning Working Area CC-4 Part 1&2: August 13, 2019**





**Photo 25: Site Early Morning Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 26: Site Early Morning Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 27: Site Early Morning Working Area CC-4 Part 1&2: August 13, 2019**



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**Photo 30: Site Early Morning Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 31: Site Early Morning Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 32: Site Early Morning Working Area CC-4 Part 1&2: August 13, 2019**





**Photo 33: Site Early Morning Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 34: Site Early Morning Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 35: Site Working Area CC-4 Part 1&2: July 9, 2019**



**Photo 36: Site Working Area CC-4 Part 1&2: July 9, 2019**





**Photo 37: Site Working Area CC-4 Part 1&2: July 9, 2019**



**Photo 38: Site Working Area CC-4 Part 1&2: July 9, 2019**



**Photo 39: Site Working Area CC-4 Part 1&2: July 9, 2019**



**Photo 40: Site Working Area CC-4 Part 1&2: July 9, 2019**



**Photo 41: Site Working Area CC-4 Part 1&2: July 9, 2019**



**Photo 42: Site Working Area CC-4 Part 1&2: July 9, 2019**



**Photo 43: Site Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 44: Site Working Area CC-4 Part 1&2: August 13, 2019**





**Photo 45: Site Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 46: Site Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 47: Site Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 48: Site Working Area CC-4 Part 1&2: August 13, 2019**





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**Photo 51: Site Working Area CC-4 Part 1&2: August 13, 2019**



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**Photo 53: Site Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 54: Site Working Area CC-4 Part 1&2: August 13, 2019**



**Photo 55: Site Working Area CC-4 Part 1&2: August 27, 2019**



**Photo 56: Site Working Area CC-4 Part 1&2: August 27, 2019**





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**Photo 58: Site Working Area CC-4 Part 1&2: August 27, 2019**



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**Photo 60: Site Working Area CC-4 Part 1&2: August 27, 2019**





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**Photo 62: Site Working Area CC-4 Part 1&2: August 27, 2019**



**Photo 63: Site Working Area CC-4 Part 1&2: August 27, 2019**



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**Photo 76: Site Working Area CC-4 Part 1&2: August 27, 2019**





**Photo 77: Site Working Area CC-4 Part 1&2: August 27, 2019**



**Photo 78: Site Working Area CC-4 Part 1&2: September 25, 2019**



**Photo 79: Site Working Area CC-4 Part 1&2: September 25, 2019**



**Photo 80: Site Working Area CC-4 Part 1&2: September 25, 2019**



**Photo 81: Site Working Area CC-4 Part 1&2: September 25, 2019**



**Photo 82: Site Working Area CC-4 Part 1&2: September 25, 2019**



**Photo 83: Site Working Area CC-4 Part 1&2: September 25, 2019**



**Photo 84: Site Working Area CC-4 Part 1&2: September 25, 2019**





**Photo 85: Site Working Area CC-4 Part 1&2: September 25, 2019**



**Photo 86: Site Working Area CC-4 Part 1&2: September 25, 2019**



**Photo 87: Site Working Area CC-4 Part 1&2: September 25, 2019**



**Photo 88: Site Working Area CC-4 Part 1&2: September 25, 2019**





**Photo 89: CC4 Parts 1 & 2: July 9, 2019**



**Photo 90: CC4 Parts 1 & 2: July 9, 2019**



**Photo 91: CC4 Parts 1 & 2: July 9, 2019**



**Photo 92: CC4 Parts 1 & 2: August 13, 2019**



**Photo 93: CC4 Parts 1 & 2: August 13, 2019**



**Photo 94: CC4 Parts 1 & 2: August 13, 2019**



**Photo 95: CC4 Parts 1 & 2: August 13, 2019**



**Photo 96: CC4 Parts 1 & 2: August 27, 2019**





**Photo 97: CC4 Parts 1 & 2: August 27, 2019**



**Photo 98: CC4 Parts 1 & 2: August 27, 2019**



**Photo 99: CC4 Parts 1 & 2: August 27, 2019**



**Photo 100: CC4 Parts 1 & 2: August 27, 2019**





**Photo 101: CC4 Parts 1 & 2: August 27, 2019**



**Photo 102: CC4 Parts 1 & 2: September 25, 2019**



**Photo 103: CC4 Parts 1 & 2: September 25, 2019**



**Photo 104: CC4 Parts 1 & 2: September 25, 2019**





**Photo 105: CC4 Parts 1 & 2: September 25, 2019**



**Photo 106: CC4 Part 3: July 9, 2019**



**Photo 107: CC4 Part 3: July 9, 2019**



**Photo 108: CC4 Part 3: July 9, 2019**





**Photo 109: CC4 Part 3: July 9, 2019**



**Photo 110: CC4 Part 3: July 9, 2019**



**Photo 111: CC4 Part 3: July 9, 2019**



**Photo 112: CC4 Part 3: July 9, 2019**



**Photo 113: CC4 Part 3: July 9, 2019**



**Photo 114: CC4 Part 3: July 9, 2019**



**Photo 115: CC4 Part 3: July 9, 2019**



**Photo 116: CC4 Part 3: July 9, 2019**





**Photo 117: CC4 Part 3: August 13, 2019**



**Photo 118: CC4 Part 3: August 13, 2019**



**Photo 119: CC4 Part 3: August 13, 2019**



**Photo 120: CC4 Part 3: August 13, 2019**





**Photo 121: CC4 Part 3: August 13, 2019**



**Photo 122: CC4 Part 3: August 13, 2019**



**Photo 123: CC4 Part 3: August 13, 2019**



**Photo 124: CC4 Part 3: August 13, 2019**





**Photo 125: CC4 Part 3: August 13, 2019**



**Photo 126: CC4 Part 3: August 13, 2019**



**Photo 127: CC4 Part 3: August 13, 2019**



**Photo 128: CC4 Part 3: August 13, 2019**





**Photo 129: CC4 Part 3: August 13, 2019**



**Photo 130: CC4 Part 3: August 13, 2019**



**Photo 131: CC4 Part 3: August 13, 2019**



**Photo 132: CC4 Part 3: August 13, 2019**





**Photo 133: CC4 Part 3: August 27, 2019**



**Photo 134: CC4 Part 3: August 27, 2019**



**Photo 135: CC4 Part 3: August 27, 2019**



**Photo 136: CC4 Part 3: August 27, 2019**





**Photo 137: CC4 Part 3: August 27, 2019**



**Photo 138: CC4 Part 3: August 27, 2019**



**Photo 139: CC4 Part 3: August 27, 2019**



**Photo 140: CC4 Part 3: August 27, 2019**





**Photo 141: CC4 Part 3: August 27, 2019**



**Photo 142: CC4 Part 3: August 27, 2019**



**Photo 143: CC4 Part 3: August 27, 2019**



**Photo 144: CC4 Part 3: August 27, 2019**





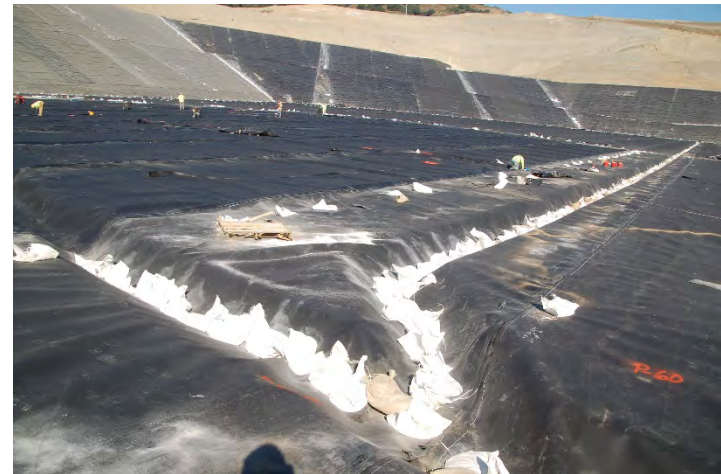
**Photo 145: CC4 Part 3: August 27, 2019**



**Photo 146: CC4 Part 3: August 27, 2019**



**Photo 147: CC4 Part 3: August 27, 2019**



**Photo 148: CC4 Part 3: August 27, 2019**





**Photo 149: CC4 Part 3: August 27, 2019**



**Photo 150: CC4 Part 3: August 27, 2019**

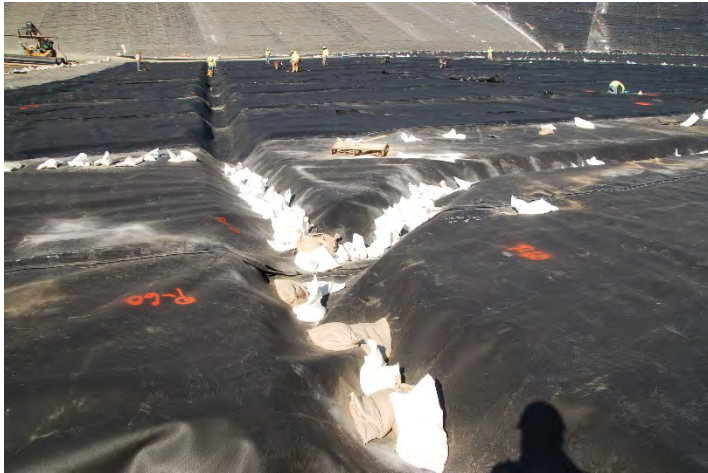


**Photo 151: CC4 Part 3: August 27, 2019**

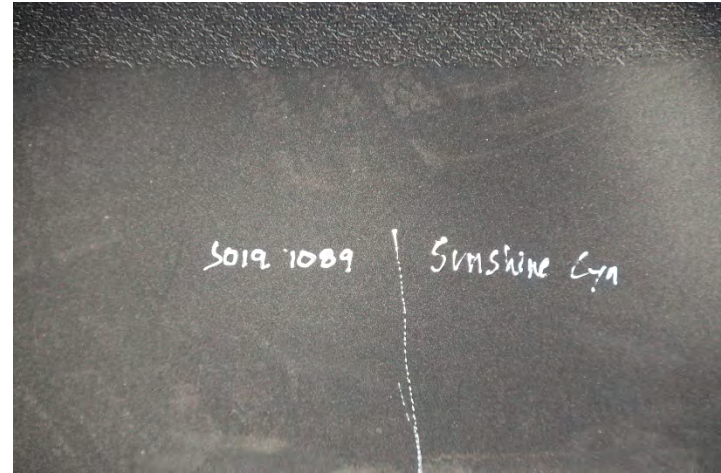


**Photo 152: CC4 Part 3: August 27, 2019**





**Photo 153: CC4 Part 3: August 27, 2019**



**Photo 154: CC4 Part 3: August 27, 2019**



**Photo 155: CC4 Part 3: August 27, 2019**

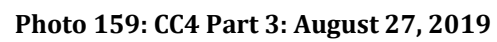


**Photo 156: CC4 Part 3: August 27, 2019**





Third Quarter 2019



**Photo 160: CC4 Part 3: August 27, 2019**







**Photo 161: CC4 Part 3: August 27, 2019**



**Photo 162: CC4 Part 3: August 27, 2019**



**Photo 163: CC4 Part 3: August 27, 2019**



**Photo 164: CC4 Part 3: September 25, 2019**





**Photo 165: CC4 Part 3: September 25, 2019**



**Photo 166: CC4 Part 3: September 25, 2019**



**Photo 167: CC4 Part 3: September 25, 2019**



**Photo 168: CC4 Part 3: September 25, 2019**





**Photo 169: CC4 Part 3: September 25, 2019**



**Photo 170: CC4 Part 3: September 25, 2019**



**Photo 171: CC4 Part 3: September 25, 2019**



**Photo 172: CC4 Part 3: September 25, 2019**





**Photo 173: CC4 Part 3: September 25, 2019**



**Photo 174: CC4 Part 3: September 25, 2019**



**Photo 175: CC4 Part 3: September 25, 2019**



**Photo 176: CC4 Part 3: September 25, 2019**





**Photo 177: CC4 Part 3: September 25, 2019**



**Photo 178: CC4 Part 3: September 25, 2019**



**Photo 179: CC4 Part 3: September 25, 2019**



**Photo 180: Closure Turf: July 9, 2019**





**Photo 181: Closure Turf: July 9, 2019**



**Photo 182: Closure Turf: August 13, 2019**



**Photo 183: Closure Turf: August 13, 2019**



**Photo 184: Closure Turf: August 13, 2019**





**Photo 185: Closure Turf: August 13, 2019**



**Photo 186: Closure Turf: August 13, 2019**



**Photo 187: Closure Turf: August 13, 2019**



**Photo 188: Closure Turf: August 13, 2019**





**Photo 189: Closure Turf: August 13, 2019**



**Photo 190: Closure Turf: August 13, 2019**



**Photo 191: Closure Turf: August 27, 2019**



**Photo 192: Closure Turf: August 27, 2019**





**Photo 193: Closure Turf: August 27, 2019**



**Photo 194: Closure Turf: August 27, 2019**



**Photo 195: Closure Turf: September 25, 2019**



**Photo 196: Closure Turf: September 25, 2019**



**Photo 197: CC-3A Top Deck Wells: August 27, 2019**



**Photo 198: CC-3A Top Deck Wells: August 27, 2019**



**Photo 199: CC-3A Top Deck Wells: August 27, 2019**



**Photo 200: CC-3A Top Deck Wells: August 27, 2019**





**Photo 201: CC-3B Top Deck: August 13, 2019**



**Photo 202: CC-3B Top Deck: August 13, 2019**



**Photo 203: CC-3B Top Deck: August 13, 2019**



**Photo 204: CC-3B Top Deck: August 13, 2019**





**Photo 205: CC-3B Top Deck: August 13, 2019**



**Photo 206: CC-3B Top Deck: August 27, 2019**



**Photo 207: CC-3B Top Deck: August 27, 2019**



**Photo 208: CC-3B Top Deck: August 27, 2019**





**Photo 209: CC-3B Top Deck: August 27, 2019**



**Photo 210: CC-3B Leachate Removal: August 27, 2019**



**Photo 211: CC-3B Leachate Removal: August 27, 2019**



**Photo 212: CC-3B Leachate Removal: August 27, 2019**





**Photo 213: Leachate & Condensate Liquids Treatment:  
September 25, 2019**



**Photo 214: Leachate & Condensate Liquids Treatment:  
September 25, 2019**



**Photo 215: Old City North: August 13, 2019**



**Photo 216: Old City North: August 13, 2019**





**Photo 217: Old City North: August 27, 2019**



**Photo 218: Old City North: August 27, 2019**



**Photo 219: Old City North: August 27, 2019**



**Photo 220: Old City North: August 27, 2019**





**Photo 221: Old City South: August 13**



**Photo 222: Old City South: August 13, 2019**



**Photo 223: Old City South: August 13, 2019**



**Photo 224: Old City South: August 13, 2019**





**Photo 225: Old City South: August 13, 2019**



**Photo 226: Old City South: August 13, 2019**



**Photo 227: Old City South: August 13, 2019**



**Photo 228: Old City South: August 13, 2019**





**Photo 229: Old City South: August 13, 2019**



**Photo 230: Old City South: August 13, 2019**



**Photo 231: Old City South: August 13, 2019**



**Photo 232: Old City South: August 27, 2019**





**Photo 233: Old City South: August 27, 2019**



**Photo 234: Old City South: August 27, 2019**



**Photo 235: Old City South: August 27, 2019**



**Photo 236: Old City South: August 27, 2019**





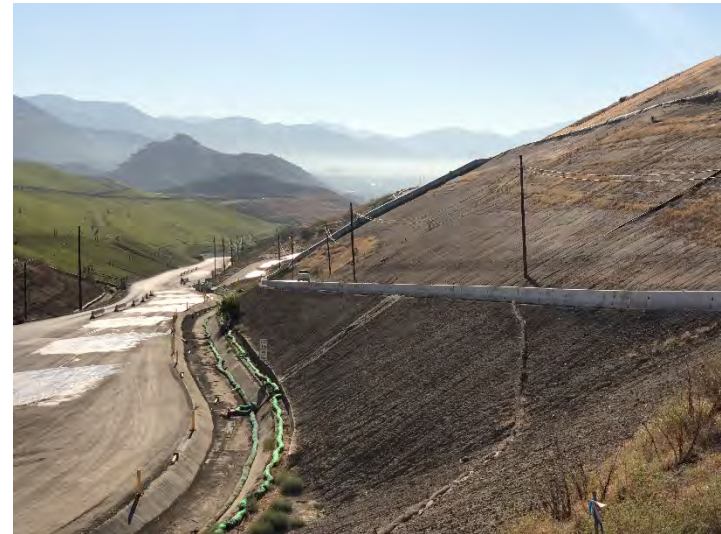
**Photo 237: Old City South: August 27, 2019**



**Photo 238: Old City South: August 27, 2019**



**Photo 239: Old City South Stockpiled Soil Slump: August 13, 2019**



**Photo 240: Old City South Stockpiled Soil Slump: August 13, 2019**





**Photo 241: Old City South Stockpiled Soil Slump: August 13, 2019**



**Photo 242: Old City South Stockpiled Soil Slump: August 13, 2019**



**Photo 243: Old City South Stockpiled Soil Slump: August 13, 2019**



**Photo 244: Old City South Stockpiled Soil Slump: August 13, 2019**





**Photo 245: Old City South Stockpiled Soil Slump: August 13, 2019**



**Photo 246: Old City South Stockpiled Soil Slump: August 27, 2019**



**Photo 247: Old City South Stockpiled Soil Slump: September 25, 2019**



**Photo 248: Old City South Stockpiled Soil Slump: September 25, 2019**





**Photo 249: Old City South Stockpiled Soil Slump: September 25, 2019**



**Photo 250: Old City South Stockpiled Soil Slump: September 25, 2019**



**Photo 251: County Sage Mitigation Slopes: July, 2019**



**Photo 252: County Sage Mitigation Slopes: July, 2019**





**Photo 253: County Sage Mitigation Slopes: July, 2019**



**Photo 254: County Sage Mitigation Slopes: July, 2019**



**Photo 255: County Sage Mitigation Slopes: July, 2019**



**Photo 256: County Sage Mitigation Slopes: July, 2019**





**Photo 257: County Sage Mitigation Slopes: July, 2019**



**Photo 258: County Sage Mitigation Slopes: July, 2019**



**Photo 259: County Sage Mitigation Slopes: July, 2019**



**Photo 260: County Sage Mitigation Slopes: July, 2019**





**Photo 261: County Sage Mitigation Slopes: August 13, 2019**



**Photo 262: County Sage Mitigation Slopes: August 13, 2019**



**Photo 263: County Sage Mitigation Slopes: August 13, 2019**



**Photo 264: County Sage Mitigation Slopes: September 25, 2019**





**Photo 265: County Sage Mitigation Slopes: September 25, 2019**



**Photo 266: County Sage Mitigation Slopes: September 25, 2019**



**Photo 267: County Sage Mitigation Slopes: September 25, 2019**



**Photo 268: County Sage Mitigation Slopes: September 25, 2019**





**Photo 269: Westside Drainage Channel: September 25, 2019**



**Photo 270: Westside Drainage Channel: September 25, 2019**



**Photo 271: Westside Drainage Channel: September 25, 2019**



**Photo 272: Westside Drainage Channel: September 25, 2019**





**Photo 273: Westside Drainage Channel: September 25, 2019**



**Photo 274: Westside Drainage Channel: September 25, 2019**



**Photo 275: Westside Drainage Channel: September 25, 2019**



**Photo 276: Westside Drainage Channel: September 25, 2019**





**Photo 277: Westside Drainage Channel: September 25, 2019**



**Photo 278: Westside Drainage Channel: September 25, 2019**



**Photo 279: Westside Drainage Channel: September 25, 2019**



**Photo 280: Westside Drainage Channel: September 25, 2019**





**Photo 281: Westside Drainage Channel: September 25, 2019**



**Photo 282: Westside Drainage Channel: September 25, 2019**



**Photo 283: Basin D: July 9, 2019**



**Photo 284: Basin D: July 9, 2019**





**Photo 285: Basin D: July 9, 2019**



**Photo 286: Basin D: July 9, 2019**



**Photo 287: Basin D: July 9, 2019**



**Photo 288: Basin D Westside Outlet: July 9, 2019**





**Photo 289: Basin D Westside Outlet: July 9, 2019**



**Photo 290: Basin D Westside Outlet: July 9, 2019**



**Photo 291: Basin D Westside Outlet: July 9, 2019**



**Photo 292: Flare 12 Blower: August 13, 2019**





**Photo 293: Flare 12 Blower: August 13, 2019**



**Photo 294: County Top Deck: July 9, 2019**



**Photo 295: County Top Deck: July 9, 2019**



**Photo 296: County Top Deck: July 9, 2019**





**Photo 297: County Top Deck: July 9, 2019**



**Photo 298: County Top Deck: July 9, 2019**



**Photo 299: County Top Deck: July 9, 2019**



**Photo 300: County Top Deck: July 9, 2019**





**Photo 301: County Top Deck: July 9, 2019**



**Photo 302: County Top Deck: July 9, 2019**



**Photo 303: County Top Deck: July 9, 2019**



**Photo 304: County Top Deck: July 9, 2019**





**Photo 305: County Top Deck: August 27, 2019**



**Photo 306: County Top Deck: August 27, 2019**



**Photo 307: County Top Deck: August 27, 2019**



**Photo 308: County Top Deck: August 27, 2019**





**Photo 309: County Top Deck: August 27, 2019**



**Photo 310: County Top Deck: August 27, 2019**



**Photo 311: County Top Deck: August 27, 2019**



**Photo 312: County Top Deck: August 27, 2019**





**Photo 313: County Top Deck: September 25, 2019**



**Photo 314: County Top Deck: September 25, 2019**



**Photo 315: County Top Deck: September 25, 2019**



**Photo 316: County Top Deck: September 25, 2019**





**Photo 317: County Top Deck: September 25, 2019**



**Photo 318: County Top Deck: September 25, 2019**



**Photo 319: County Top Deck: September 25, 2019**



**Photo 320: County Top Deck: September 25, 2019**





**Photo 321: County Top Deck: September 25, 2019**



**Photo 322: County Top Deck: September 25, 2019**



**Photo 323: County Top Deck: September 25, 2019**



**Photo 324: County Top Deck: September 25, 2019**





**Photo 325: County Bowl Area Truck Dust: July 9, 2019**



**Photo 326: County Bowl Area Truck Dust: July 9, 2019**



**Photo 327: County Bowl Area: July 9, 2019**



**Photo 328: County Bowl Area: July 9, 2019**





**Photo 329: County Bowl Area: July 9, 2019**



**Photo 330: County Bowl Area: July 9, 2019**



**Photo 331: County Bowl Area: July 9, 2019**



**Photo 332: County Bowl Area: July 9, 2019**





**Photo 333: County Bowl Area: August 13, 2019**



**Photo 334: County Bowl Area: August 13, 2019**



**Photo 335: County Bowl Area: August 13, 2019**



**Photo 336: County Bowl Area: August 13, 2019**





**Photo 337: County Bowl Area: September 25, 2019**



**Photo 338: County Bowl Area: September 25, 2019**



**Photo 339: County Bowl Area: September 25, 2019**



**Photo 340: County Bowl Area: September 25, 2019**





**Photo 341: County Bowl Area: September 25, 2019**



**Photo 342: County Bowl Area: September 25, 2019**



**Photo 343: County Bowl Area: September 25, 2019**



**Photo 344: Basin B: July 9, 2019**





**Photo 345: Basin B: July 9, 2019**



**Photo 346: Basin B: July 9, 2019**



**Photo 347: Basin B: July 9, 2019**



**Photo 348: Basin B: July 9, 2019**





**Photo 349: Basin B: August 13, 2019**



**Photo 350: Basin B: August 13, 2019**



**Photo 351: Basin B: August 13, 2019**



**Photo 352: Basin B: August 27, 2019**





**Photo 353: Basin B: August 27, 2019**



**Photo 354: Basin B: August 27, 2019**



**Photo 355: Basin B: September 25, 2019**



**Photo 356: Basin B: September 25, 2019**





**Photo 357: Basin B: September 25, 2019**



**Photo 358: Basin B: September 25, 2019**



**Photo 359: Eastside Drainage Channel: July 9, 2019**



**Photo 360: Eastside Drainage Channel: July 9, 2019**





**Photo 361: Eastside Drainage Channel: July 9, 2019**



**Photo 362: Eastside Drainage Channel: July 9, 2019**



**Photo 363: Eastside Drainage Channel: August 13, 2019**



**Photo 364: Eastside Drainage Channel: August 13, 2019**





**Photo 365: Eastside Drainage Channel: August 13, 2019**



**Photo 366: Eastside Drainage Channel: August 13, 2019**



**Photo 367: Eastside Drainage Channel: September 25, 2019**



**Photo 368: Eastside Drainage Channel: September 25, 2019**





**Photo 369: Eastside Drainage Channel: September 25, 2019**



**Photo 370: Eastside Drainage Channel: September 25, 2019**



**Photo 371: Eastside Drainage Channel: September 25, 2019**



**Photo 372: Terminal Basin Inlet: August 13, 2019**





**Photo 373: Terminal Basin Inlet: August 13, 2019**



**Photo 375: Terminal Basin Inlet: August 13, 2019**



**Photo 374: Terminal Basin Inlet: August 13, 2019**



**Photo 376: Terminal Basin Inlet: August 13, 2019**





**Photo 377: Terminal Basin Inlet: August 13, 2019**



**Photo 378: Terminal Basin Inlet: August 13, 2019**



**Photo 379: Terminal Basin Inlet: August 13, 2019**



**Photo 380: Terminal Basin Inlet: August 27, 2019**





**Photo 381: Terminal Basin Inlet: August 27, 2019**



**Photo 382: Terminal Basin: July 9, 2019**



**Photo 383: Terminal Basin: July 9, 2019**



**Photo 384 Terminal Basin: July 9, 2019**





**Photo 385: Terminal Basin: July 9, 2019**



**Photo 386: Terminal Basin: August 13, 2019**



**Photo 387: Terminal Basin: August 13, 2019**



**Photo 388: Terminal Basin: August 13, 2019**





**Photo 389: Terminal Basin: August 13, 2019**



**Photo 390: Terminal Basin: August 13, 2019**



**Photo 391: Terminal Basin: August 13, 2019**



**Photo 392: Terminal Basin: August 13, 2019**





**Photo 393: Terminal Basin: August 13, 2019**



**Photo 394: Terminal Basin: August 13, 2019**



**Photo 395: Terminal Basin: August 27, 2019**



**Photo 396: Terminal Basin: August 27, 2019**





**Photo 397: Terminal Basin: August 27, 2019**



**Photo 398: Terminal Basin: August 27, 2019**



**Photo 399: Terminal Basin: August 27, 2019**



**Photo 400: Terminal Basin: August 27, 2019**





**Photo 401: Terminal Basin: August 27, 2019**



**Photo 402: Terminal Basin: August 27, 2019**



**Photo 403: Terminal Basin: August 27, 2019**



**Photo 404: Terminal Basin: September 25, 2019**





**Photo 405: Terminal Basin: September 25, 2019**



**Photo 406: Terminal Basin: September 25, 2019**



**Photo 407: Terminal Basin: September 25, 2019**



**Photo 408: Terminal Basin: September 25, 2019**





**Photo 409: Terminal Basin: September 25, 2019**



**Photo 410: Terminal Basin: September 25, 2019**



**Photo 411: Terminal Basin: September 25, 2019**



**Photo 412: Terminal Basin: September 25, 2019**





**Photo 413: Terminal Basin: September 25, 2019**



**Photo 414: Terminal Basin: September 25, 2019**



**Photo 415: Terminal Basin Inlet: August 27, 2019**



**Photo 416: Terminal Basin Outlet: August 13, 2019**





**Photo 417: Terminal Basin Outlet: August 13, 2019**



**Photo 419: Terminal Basin Outlet: September 25, 2019**



**Photo 418: Terminal Basin Outlet: September 25, 2019**



**Photo 420: Terminal Basin Walkway: September 25, 2019**





**Photo 421: Deck B Sage Mitigation Area: August 13, 2019**



**Photo 422: Deck B Sage Mitigation Area: August 13, 2019**



**Photo 423: Deck B Sage Mitigation Area: August 13, 2019**



**Photo 424: Deck B Sage Mitigation Area: August 13, 2019**





**Photo 425: Deck B Sage Mitigation Area: August 13, 2019**



**Photo 427: Deck B Sage Mitigation Area: August 27, 2019**



**Photo 426: Deck B Sage Mitigation Area: August 27, 2019**



**Photo 428: Deck B Sage Mitigation Area: August 27, 2019**





**Photo 429: Deck B Sage Mitigation Area: August 27, 2019**



**Photo 430: Deck B Sage Mitigation Area: September 25, 2019**



**Photo 431: Deck B Sage Mitigation Area: September 25, 2019**



**Photo 432: Deck B Sage Mitigation Area: September 25, 2019**





**Photo 433: Deck B Sage Mitigation Area: September 25, 2019**



**Photo 434: Deck B Sage Mitigation Area: September 25, 2019**



**Photo 435: Deck C Sage Mitigation Area: August 27, 2019**



**Photo 436: Deck C Sage Mitigation Area: September 25, 2019**





**Photo 437: Deck C Sage Mitigation Area: September 25, 2019**



**Photo 438: Oil Field Flare: August 13, 2019**



**Photo 439: Oil Field Flare: August 13, 2019**



**Photo 440: Oil Field Flare: September 25, 2019**





**Photo 441: Oil Field Flare: September 25, 2019**



**Photo 442: Oil Field Flare: September 25, 2019**



**Photo 443: Site: August 13, 2019**



**Photo 444: Site: August 13, 2019**





**Photo 445: Site: August 13, 2019**



**Photo 446: Site: August 13, 2019**



**Photo 447: Site: August 13, 2019**



**Photo 448: Site: August 13, 2019**





**Photo 449: Site: August 13, 2019**



**Photo 450: Site: August 13, 2019**



**Photo 451: Site: August 13, 2019**



**Photo 452: Site: August 13, 2019**





**Photo 453: Site: August 13, 2019**



**Photo 454: Site: August 13, 2019**



**Photo 455: Site: August 13, 2019**



**Photo 456: Site: August 13, 2019**





**Photo 457: Site: August 13, 2019**



**Photo 458: Site: August 13, 2019**



**Photo 459: Site: August 13, 2019**



**Photo 460: Site: August 13, 2019**





**Photo 461: Site: August 13, 2019**



**Photo 462: Site: August 13, 2019**



**Photo 463: Site: August 27, 2019**



**Photo 464: Site: August 27, 2019**





**Photo 465: Site: August 27, 2019**



**Photo 466: Site: August 27, 2019**



**Photo 467: Site: August 27, 2019**



**Photo 468: Sierra Highway Abandoned Motorhome: July 9, 2019**





**Photo 469: Truck Leaking Liquids at Scales: August 27, 2019**



**Photo 470: Truck Leaking Liquids at Scales: August 27, 2019**



**Photo 471: Truck Leaking Liquids at Scales: August 27, 2019**



**Photo 472: Truck Leaking Liquids at Scales: August 27, 2019**



# 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

# July Site Visits

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## July 9, 2019:

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: 7/9/19
Site Conditions: Cloudy 65-85° F, 0-10 MPH winds	
<b>SITE LOG</b>	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood and school areas from 6:00 to 6:45 a.m. and there were no landfill odors detected. The intersection of Balboa at Woodley had stains from liquids, presumably coming from trucks. No odors were detected on this cool morning. Prior dumped debris on San Fernando Road at the I-5 overpass was removed. A small, new pile was observed. Met with Mike Lindsay (UltraSystems), Tarik Hadj-Hamou (SLR), Alex Garcia and Tim Stapleton (LACDRP). We signed in at the office, briefly met with Josh Mills, and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• The bottom liner system for Cell CC-4 Part 3 was being installed. It appears to be approximately 50% complete. Seeps were observed coming from the buttress slope.</li> <li>• The landfill was inspected for damage from the Ridgecrest earthquake. No cracks, fissure, or signs of movement were observed at the ridgeline, on slopes, or roadways.</li> <li>• Basin A was dry. There was no removal of sediment.</li> <li>• Approximately 60% of the County sage mitigation slope had native vegetation. Last year's rain helped promote new growth. Native plants are going through summer die-back. The unvegetated area had deep erosion rills.</li> <li>• Basin D was dry and free of sediment. No access limiting guards were on the northern risers. The concrete outlet structures need maintenance--vegetation removal, cracks repaired, soil erosion repaired.</li> <li>• The gas collection header to Flares 9, 10, 11 was being modified to have a new header for future flares.</li> <li>• The Basin D outlet channel was repaired and ready for winter rain events.</li> <li>• The county top deck had stockpiles of wet weather rock, broken concrete and asphalt. The majority of the soil stockpiled from the buttress grading was removed.</li> <li>• The dirt access roads on the east side of the County bowl had areas with disposal truck created dust early this morning. Water trucks were not covering this area at that time.</li> <li>• Basin B was dry. The areas with slough hillside soil piles were not removed. The basin floor had minimal sediment.</li> <li>• The active fill areas were CC-4 Part 1 and 2 and the County Bowl area north of CC-3A. There were no operational concerns noted.</li> <li>• The eastside drainage channel had sediment and debris at the channel humps and gabions.</li> <li>• The leachate and condensate Alder tank facility was operating and odors were detected.</li> <li>• The terminal basin had standing water at the outlet risers. Sediment was moved into piles in other areas to allow it to dewater and to dry.</li> </ul>	

Page 2 of 2, 7/9/19:

- Sierra Highway and San Fernando Road were clear of illegally dumped debris and litter.

Flare Operating Conditions:

- Flare 1 - not monitored
- Flare 3 - shut down
- Flare 9 - 1657°F, 2514 SCFM, -65.0" vacuum, 38.53" out
- Flare 10 - 1653°F, 2537 SCFM
- Flare 11 - 1659°F, 2562 SCFM

The gas-to-energy plant was using 9,058 SCFM of recovered landfill gas, 44% CH<sub>4</sub>, 0.8% O<sub>2</sub>, 88 ppm H<sub>2</sub>S. Total gas volume recovered was 16,658 SCFM (not including Flare 1.)

FURTHER REVIEW NEEDED

COMMENTS

Signed:





**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 07-09-2019      Tuesday
Site Conditions: Cloudy, 63–85 °F, 3–9 mph, 74% 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 Joshua Mills (Republic).</li> <li>2. Met with Alex Garcia and Tim Stapleton (LAC DRP).</li> <li>3. Cell CC-4 Part 3 construction is progressing, with new liner trench complete.</li> <li>4. Flare 3 is offline.</li> <li>5. Area above buttress is in good order.</li> <li>6. Sediment basin A has completely drained of ponding water, with some vegetation growing in sediment.</li> <li>7. Water trucks are applying water throughout site for dust control.</li> <li>8. County sage mitigation area is showing some stress due to hotter weather.</li> <li>9. Westside drainage channel is in good order.</li> <li>10. Sediment basin D is in good order.</li> <li>11. No safety caps are present on top of the two vertical riser drains at north side of sediment basin D.</li> <li>12. A new trench has been dug at the south base of the Flare 9 pad, exposing a 36-inch header and valve.</li> <li>13. Flare 9 is operating at 2525 scfm, 1646 °F. Gas sample measured at 44 % Vol. CH<sub>4</sub>, 0.8 % Vol. O<sub>2</sub>, 88 ppm H<sub>2</sub>S and 183 ppm CO. Gas inlet temperature is 134 °F.</li> <li>14. Flare 10 is operating at 2619 scfm, 1644 °F. Gas inlet temperature is 139 °F.</li> <li>15. Flare 11 is operating at 2544 scfm, 1650 °F.</li> <li>16. Street sweepers are cleaning the haul roads.</li> <li>17. Sediment basin B is in good order.</li> <li>18. The working area at Cell CC-4 Part 1/2 is in good order, including four tippers, traffic controllers, water misters and water trucks. Packer trucks and transfer trucks are dumping in two separate areas.</li> <li>19. The eastside drainage channel is in good order.</li> <li>20. A vacuum truck is performing a clean-out on the forced main line along the eastside drainage channel.</li> <li>21. No odors are present at the Alder tank farm.</li> <li>22. The terminal basin has sediment being placed into piles to dry out. The standing water level is just below the top of the riser drains. The skimmer system is not operating.</li> <li>23. The low-point liquid collection system is in good order with no odors detected.</li> <li>24. Weed removal is occurring along the drainage channel and haul road.</li> <li>25. No odors are present at adjacent neighborhood and school.</li> <li>26. Sierra Highway is clear of debris.</li> <li>27. Traffic spotters are onsite to control traffic.</li> <li>28. Met with Joshua Mills (Republic), and discussed our site monitoring observations.</li> </ol>	
<b>FURTHER REVIEW NEEDED</b>	

1. Install safety caps on vertical riser drains at sediment basin D.

Signed: *Michael W. Lindsay*



## SUNSHINE CANYON LANDFILL

### MITIGATION MONITORING

#### SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 12
Discipline: Civil – Geotechnical and Hydrology	Date: July 9, 2019
Site Conditions: Partly cloudy to Sunny and warm	
<b>SITE LOG</b>	
<b>7:00 – 8:20</b> <ul style="list-style-type: none"> <li>Meet with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill, review of previous visits, discuss potential issues, organize areas and features to inspect.</li> <li>Sign-up at landfill</li> <li>Meet with LA County personnel who came to inspection: Tim Stapleton and Alex Garcia</li> <li>Discuss possible impact of recent earthquakes at landfill and identify areas to inspect such as the ridge on the south side of landfill above the Cell CC4 buttress, the depression/settlement observed on slope along the access road to the administration pad.</li> </ul>	
<b>8:20– 2:00 Site inspection</b> <ul style="list-style-type: none"> <li>Tour neighborhood to check for odor and illegal waste dumping</li> <li>Tour of landfill</li> <li>Access Roads</li> <li>Waste placement</li> <li>Drainage systems (Basins, channels)</li> <li>Construction at Cell CC4</li> <li>Erosion protection system</li> <li>Landfill for geotechnical and hydrological issues</li> <li>Other observations</li> <li>Meet with Republic staff</li> </ul>	
<b>Access Roads.</b> <ul style="list-style-type: none"> <li>Main access road: No additional sloughing observed on the embankment on the Terminal Basin side, just at the edge of the previously repaired area at the limit of the jute netting. No stability concerns</li> <li>Access road to administration pad – no additional depression/settlement observed on slope.</li> </ul>	
<b>Waste Placement</b> <ul style="list-style-type: none"> <li>Two waste faces were active in Cells CC3 and CC4.</li> <li>4 Tilters were set-up (Photo 1) at Cell CC4</li> <li>ADC is in use at Cell CC4 (Photo 1)</li> </ul>	
<b>Drainage System</b> <ul style="list-style-type: none"> <li>Terminal Basin (Photo 2) <ul style="list-style-type: none"> <li>Sediments have accumulated upstream of the separator gabion wall reaching over the gabion wall on the south side of the basin</li> <li>The three skimmers were raised – it is our understanding that they are still out of commission and cannot be repaired until the sediments are removed and the basin cleaned</li> <li>Water is pumped out of the basin and used for dust control</li> </ul> </li> <li>Cell CC3 Earthen basin <ul style="list-style-type: none"> <li>The basin is clean and available for storage</li> </ul> </li> </ul>	

- East portion of the perimeter channel between Basin B and Terminal basin
  - Sediments and some detritus have accumulated at the location of the asphalt berm/gabion installed to slow down the velocity in of water in the channel (Photo 3)
  - Vegetation has also established itself. (Photo 4)
- Basin B
  - Basin empty of water but contains a small amount of sediment but not enough to affect the anticipated performance of the basin to store stormwater.
  - Vegetation if growing through cracks in the spillway (Photo 5)
- Basin D
  - Basin is clean and available for water storage
  - Southern Half
    - ✓ There is a gap between the shotcrete and the soil at the spillway which may cause problem is additional undermining occurs (Photo 6).
    - ✓ Vegetation is growing through crack in downstream side of spillway (Photo 7)
  - Northern Half
    - ✓ Safety bars are missing on top of the decant towers (Photo 8)
- Ditch along access road to Flare 9-11
  - The drain at the end of the concrete on side of road is plugged by sediments.
- Basin A
  - Basin held no water but still contains a fair amount of sediments (Photo 9)
  - As noted previously, the basin will be reconnected to the drainage system when the new channel will be built around cell CC4 Part 4
  - The slopes towards Flare 3 near Basin A have been reworked and track rolled eliminating the deep gullies observed in previous visits.
  - New concrete ditches have been constructed along the road that will control drainage and reduce the potential for erosion of roadway (Photo 10)
  - A corrugate metal pipe down chute has been installed along the contact between the ridge separating the Basin from the graded slope to Flare 3 (Photo 11) an area where a deep erosion gully would forma after every significant rainstorm
- Perimeter Channel between Basin A and Basin D
  - Channel in very good shape and clean, no vegetation and no cracks
- Channel near the scale station
  - Accumulated sediments were being removed (Photo 12)

#### Cell 4 Phase 3 Construction

- The lower clay layer of the double composite liner system (Photo 13) was in place undergoing final grading and compaction (Photo 14)
- The anchor trench for the geosynthetic component has been excavated along a bench on west side of the future cell. (Photo 15). The outside edge is properly rounded to minimizes risk of damage to the geosynthetics

#### Erosion Protection Systems

- No changes since the last visit in May 2019, some erosion gullies have developed despite the protection blankets and wattles installed on numerous slopes.

#### Landfill for geotechnical and hydrological issues

- No cracks, fissures or any sign of impact from the Ridgecrest Earthquake were observed on the ridge on the south side of landfill above the Cell CC4 buttress (Photo 16)
- The landfill is within the modified Mercalli Intensity II-III zone per the USGS map (Photo 17) and therefore though the event was felt at the site the ground motion generated had to be




extremely low and well below those corresponding to the threshold event of Magnitude 5
<ul style="list-style-type: none"><li>• No fissures or cracks were observed in any of the slope or roadways</li></ul>
Other Observations
<ul style="list-style-type: none"><li>• Wall along San Fernando Road<ul style="list-style-type: none"><li>— No changes since last visit. drainage swale partially full of sediments</li></ul></li><li>• No odor detected outside of landfill</li><li>• No illegal dumping along Sierra Highway noted except for a burned camper</li></ul>
Close-out meeting with Republic Staff representative to discuss findings of visit
<b>FURTHER REVIEW NEEDED</b>
<ul style="list-style-type: none"><li>• None</li></ul>
<b>COMMENTS</b>
<ul style="list-style-type: none"><li>• None</li></ul>
Signed: 



Photo 1: Daily alternative cover and tippers at waste face on cell CC4



Photo 2: Terminal basin – notice pump on right side near water edge in red box





Photo 3: Sediment in east perimeter channel



Photo 4: Vegetation growing between floor slab and wall of east perimeter channel





Photo 5: Vegetation in cracks in downstream side of concrete spillway at Basin B



Photo 6: Undermined concrete of spillway of southern half of Basin D





Photo 7: Vegetation growing in downstream side of concrete of spillway of southern half of Basin D



Photo 8: Missing safety guard bars on top of decant towers at northern half of Basin D





Photo 9: Sediment accumulation in Basin A



Photo 10: Drainage works on graded slope below Flare 3





Photo 11: CMP down chute at contact between grade slope below Flare 3 and Basin A



Photo 12: Cleaning of channel near scuttle station



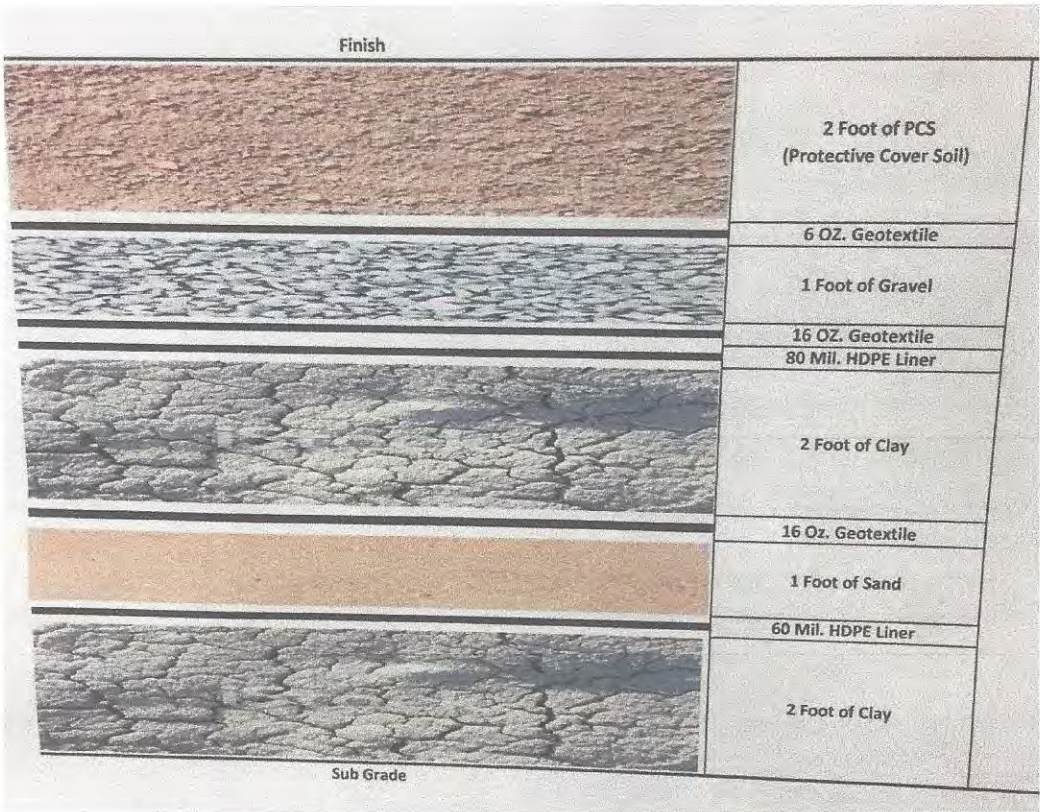


Photo 13: Double composite liner system for floor of cells



Photo 14: Placement of lower clay layer of double composite liner system





Photo 15: Anchor trench for geosynthetics at Cell CC4 Phase 4



Photo 16: Ridge on south edge of landfill – no fissures or cracks noticed



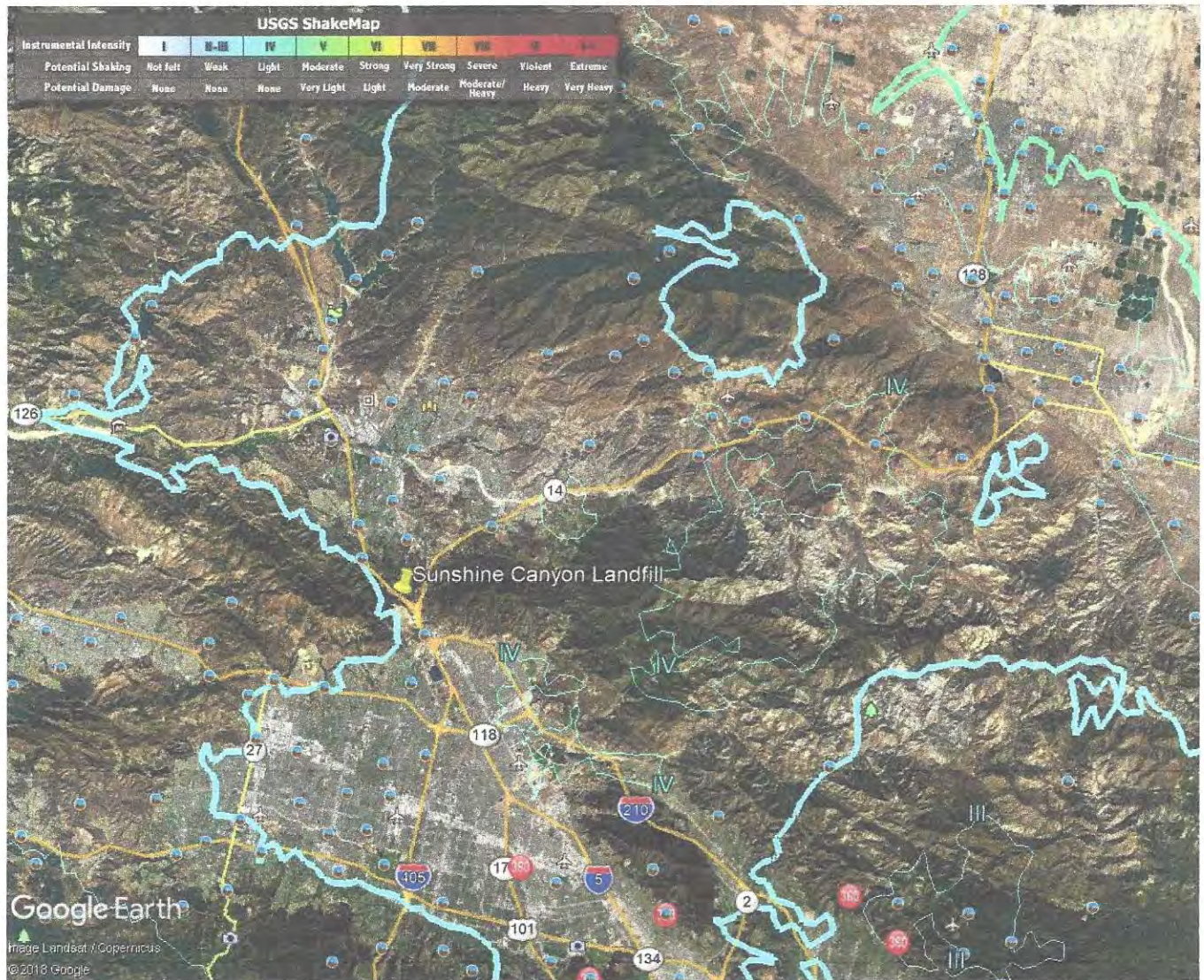


Photo 17: Iso Intensity map from 7.1 Ridgecrest Earthquake



# August Site Visits

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## August 13, 2019:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 8/13/19
Site Conditions: Cloudy 70-95° F, 0-10 MPH winds	
<b>SITE LOG</b>	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood and school areas from 6:15 to 7:00 a.m. and there were no landfill odors detected.. Met with Mike Lindsay (UltraSystems), Gabriel Esparza and Vu Truong (LACDPW). We signed in at the office, had a brief conversation with Valerie Moore (Republic), and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• The working area was CC-4 Part 1 and 2 north and adjacent to the top deck of Deck CC-3A.</li> <li>• The tarp was removed at 9:00 a.m. from waste disposed at 6:00-7:00 a.m. Trash was not moved by the tarp and no odor was detected. Localized dust was created in moving the tarps.</li> <li>• The old city south soil stockpile south of the office did not have the slump increase.</li> <li>• The old city south landfill had slopes repaired and graded and drainage systems repaired and improved.</li> <li>• The westside concrete channel with a corrugated pipe downcomer was completed on the old city south landfill. The concrete channel above the CC-4 Part 3 buttress was not complete.</li> <li>• No localized odors were detected on the CC-3A top deck.</li> <li>• The CC-3B top deck had no stockpiled material and was graded. No odors were detected.</li> <li>• CC-4 Part 3 liner was installed in a southern run-off basin area and on the north and west slopes. The floor was ready for the final liner installation.</li> <li>• Sediment was being removed from the terminal basin. The basin was approximately 25% cleared. The sediment was wet and spongy from the gabion wall to the outlet risers.</li> <li>• An open flame flare was installed in the oil field by the field operator.</li> <li>• The southern perimeter oil field gate was locked.</li> <li>• Deck C sage mitigation area was being maintained and the mustard weed was removed.</li> <li>• Deck B sage mitigation was growing with minimal weeds and non-natives.</li> <li>• Basin A had dry sediment stockpiled and ready for removal.</li> <li>• Basin C had a minimal amount of dry sediment stockpiled and ready for removal.</li> <li>• The eastside drainage channel from the Adler tank farm south was not yet cleared of sediment.</li> </ul>	



Page 2 of 2, 7/9/19:

Flare Operating Conditions:

- Flare 1 - 1684°F, 2425 SCFM, -57.48 vacuum, 38.44" out, 31% CH<sub>4</sub>
- Flare 3 - 1669°F, 2374 SCFM, -77.8 vacuum, 46% CH<sub>4</sub>
- Flare 9 - 1647°F, 2863 SCFM, -63.16" vacuum, 38.62" out
- Flare 10 - 1652°F, 2861 SCFM
- Flare 11 - Down for maintenance

The gas-to-energy plant was using 8,904 SCFM of recovered landfill gas, 45% CH<sub>4</sub>, 0.4% O<sub>2</sub>, 99 ppm H<sub>2</sub>S.  
Total gas volume recovered was 19,427 SCFM.


FURTHER REVIEW NEEDED

COMMENTS

Signed:



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 08-13-2019      Tuesday
Site Conditions: Clear, 70–96 °F, 3–12 mph, 51% RH	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas (UltraSystems), and checked into office and with Valarie Moore (Republic).</li> <li>2. Met with Gabriel Esparza and Vu Truong (LAC DPW).</li> <li>3. The working area at Cell CC-4 Part 1/2 is in good order, including four tippers, traffic controllers, water misters and water trucks. A tarp is covering the trash that was dumped earlier in the morning, with the tarp being removed at 9:03 AM.</li> <li>4. ADC is 60% covered with new trash at 9:25 AM.</li> <li>5. Cell CC-3A is in good order, with no localized odors present.</li> <li>6. Cell CC-4 Part 3 construction is progressing, with new liner being tied into the upper west bench.</li> <li>7. Large dump trucks are hauling soil out of terminal basin.</li> <li>8. Water trucks are applying water throughout site for dust control.</li> <li>9. The terminal basin has sediment placed into piles to dry out.</li> <li>10. Oil field perimeter gate is closed.</li> <li>11. City deck C sage mitigation area is in good growing condition, with mustard weed removed.</li> <li>12. PM-10 berm oak trees are doing well, with a few smaller trees that have died out.</li> <li>13. Flare 1 is operating at 2429 scfm, 1683 °F. Gas sample measured at 31 % Vol. CH<sub>4</sub>, 0.5 % Vol. O<sub>2</sub>, 100 ppm H<sub>2</sub>S and 58 ppm CO. Gas inlet temperature is 133 °F.</li> <li>14. Observed new westside drainage channel construction southeast of sediment basin A.</li> <li>15. Sediment basin A has soil piled into center of basin for removal.</li> <li>16. Flare 3 gas sample measured at 46 % Vol. CH<sub>4</sub>, 0.4 % Vol. O<sub>2</sub>, 70 ppm H<sub>2</sub>S and 163 ppm CO. Gas inlet temperature is 147 °F.</li> <li>17. Drainage channels east of Flare 3 are in good order.</li> <li>18. Traffic spotters are onsite to control traffic.</li> <li>19. Flare 9 is operating at 3071 scfm, 1680 °F. Gas sample measured at 45 % Vol. CH<sub>4</sub>, 0.4 % Vol. O<sub>2</sub>, 99 ppm H<sub>2</sub>S and 265 ppm CO. Gas inlet temperature is 145 °F.</li> <li>20. Flare 10 is operating at 3081 scfm, 1678 °F.</li> <li>21. Flare 11 is offline.</li> <li>22. Street sweepers are cleaning the haul roads.</li> <li>23. A new blower pad has been installed near Flare 11.</li> <li>24. Sediment basin B is in good order, with some soil clean-out required in corners of basin.</li> <li>25. The eastside drainage channel has been cleaned at its west end, and still needs cleaning at its east end, including vegetation at the old City north deck.</li> <li>26. Met with Joshua Mills (Republic), and discussed our site monitoring observations.</li> </ol>	
<b>FURTHER REVIEW NEEDED</b>	
1. None.	
Signed: 	



**August 27, 2019:**

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: 8/27/19
Site Conditions: Cloudy 70-95° F, 0-10 MPH winds	
<b>SITE LOG</b>	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood and school areas from 6:30 to 7:00 a.m. and there were no landfill odors detected.. Met with Mike Lindsay (UltraSystems), Tarik Hadj-Hamou (SLR), and Tim Stapleton (LACDRP.) We signed in at the office and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• After the initial one hour of morning operations (6:00-7:00 a.m.), no odors were detected at 7:30 a.m.</li> <li>• The liner floor of CC-4 Part 3 was being worked on. The slope liner installation was progressing well. A temporary lined basin was installed in the eastern floor area.</li> <li>• At 8:30, a Republic Services trash truck was observed leaking a substantial amount of liquid as it queued in the scale area.</li> <li>• Drove the adjacent neighborhood and school area at 9:30 and no landfill odors were detected.</li> <li>• Drove Sierra Highway and illegally dumped trash and debris was observed near the I-14 overpass.</li> <li>• The terminal basin had the inlet water flow blocked by a dirt berm. Dry sediment was being removed. A significant amount of sediment from the gabion wall to the outlet risers had not yet been moved into piles to dry.</li> <li>• The leachate recovery system below the CC-3B slope was operating and no odors were detected. The alluvial seep was stopped.</li> <li>• Localized odors were detected at the north tank of the Adler Tank farm leachate and condensate treatment system.</li> <li>• The eastside drainage channel was cleaned to the Adler Tank farm. Sediment, rock, and debris was not removed from the tank farm to the terminal basin.</li> <li>• The Old City South landfill appeared to be ready for winter conditions. The rainwater control gabions were not yet installed on the new pave road.</li> <li>• The Closure Turf was being maintain and was in good condition.</li> <li>• Waste was being placed in CC-4 Part 1/2. The active area was operating approximately 40' below the CC-3A top deck.</li> <li>• Localized odors were coming from a liquids transmission line repair. The repair was completed by approximately 1:00 p.m.</li> <li>• Localized odors were detected at Well 3013D on the CC-3A top deck.</li> <li>• Drainage channel construction on and adjacent to the CC-4 Part 3 buttress was ongoing.</li> <li>• Basin A had sediment moved to the center of the basin for removal.</li> </ul>	



Page 2 of 2, 8/27/19:

- The County top deck had wet weather rock and asphalt stockpiles.
- Basin B had dry sediment moved to a pile ready for removal.
- Sage mitigation Deck C was doing well with mustard weed removed.
- Sage mitigation Deck B was doing well. Non-native plants were being controlled.

Flare Operating Conditions:

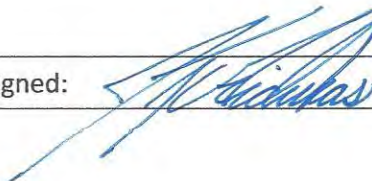
- Flare 1 - 1682°F, 2526 SCFM, -57.71 vacuum, 38.59" out, 31% CH<sub>4</sub>
- Flare 3 - 1640°F, 2294 SCFM, -77.5 vacuum, 46% CH<sub>4</sub>
- Flare 9 - shut down
- Flare 10 - 1638°F, 2735 SCFM, -62.85 vacuum, 38.27" out
- Flare 11 - 1658°F, 2772 SCFM

The gas-to-energy plant was using 9,210 SCFM of recovered landfill gas, 46% CH<sub>4</sub>, 0.5% O<sub>2</sub>, 94 ppm H<sub>2</sub>S. Total gas volume recovered was 19,537 SCFM.

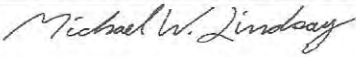
FURTHER REVIEW NEEDED

COMMENTS

Signed:



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 08-27-2019      Tuesday
Site Conditions: Clear, 71–95 °F, 1–10 mph, 52% 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.</li> <li>2. Met with Tim Stapleton (LAC DRP).</li> <li>3. Traffic spotters are onsite to control traffic.</li> <li>4. Observed liner installation for Cell CC-4 Part 3, including welding, testing and inspection.</li> <li>5. Street sweepers are cleaning the haul roads.</li> <li>6. No odors are present at adjacent neighborhood and school.</li> <li>7. Illegally dumped trash and debris is present along Sierra Highway.</li> <li>8. The terminal basin has sediment being hauled out via large dump trucks, with about 25% removed so far.</li> <li>9. The sediment basin 3B low-point liquid collection system is in good order with no odors detected.</li> <li>10. The eastside drainage channel has debris accumulated at water berms.</li> <li>11. Localized odors are present at the Alder tank farm.</li> <li>12. The working area at Cell CC-4 Part 1/2 is in good order, including three tippers, traffic controllers, water misters and water trucks for odor and dust control.</li> <li>13. Localized odors are present at trenching near Cell CC-3B at 10:25 AM, where soil and trash spoils are being hauled to active working area for disposal.</li> <li>14. Flare 1 is operating at 2508 scfm, 1683 °F. Gas sample measured at 33 % Vol. CH<sub>4</sub>, 0.4 % Vol. O<sub>2</sub>, 100 ppm H<sub>2</sub>S and 94 ppm CO. Gas inlet temperature is 141 °F.</li> <li>15. Sediment basin A has soil in piles, ready for removal.</li> <li>16. Flare 3 is operating at 46 % Vol. CH<sub>4</sub>, 0.1 % Vol. O<sub>2</sub>, 61 ppm H<sub>2</sub>S and 239 ppm CO. Gas inlet temperature is 151 °F.</li> <li>17. Observed new westside drainage channel construction, including two 48-inch corrugated pipes under roadway.</li> <li>18. Flare 9 is offline.</li> <li>19. Flare 10 is operating at 2724 scfm, 1658 °F. Gas sample measured at 46 % Vol. CH<sub>4</sub>, 0.5 % Vol. O<sub>2</sub>, 94 ppm H<sub>2</sub>S and 267 ppm CO. Gas inlet temperature is 153 °F.</li> <li>20. Flare 11 is operating at 2762 scfm, 1649 °F.</li> <li>21. Water trucks are applying water throughout site for dust control.</li> <li>22. Sediment basin B has soil piled up, ready for removal.</li> <li>23. Met with Chris Coyle (Republic), and discussed our site monitoring observations.</li> </ol>	
<b>FURTHER REVIEW NEEDED</b>	
<ol style="list-style-type: none"> <li>1. Remove illegally dumped trash and debris along Sierra Highway.</li> <li>2. Eliminate odors at the Alder tank farm.</li> </ol>	
Signed: 	



## SUNSHINE CANYON LANDFILL

### MITIGATION MONITORING SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 13
Discipline: Civil – Geotechnical and Hydrology	Date: August 27, 2019
Site Conditions: Sunny and warm	
<b>SITE LOG</b>	
<b>7:00 – 8:00</b> <ul style="list-style-type: none"> <li>Meet with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill, review of previous visits, discuss potential issues, organize areas and features to inspect.</li> <li>Sign-up at landfill</li> <li>Meet with Tim Stapleton of LA County Planning Department</li> </ul>	
<b>8:20– 2:00 Site inspection</b> <ul style="list-style-type: none"> <li>Tour neighborhood to check for odor and illegal waste dumping</li> <li>Tour of landfill</li> <li>Access Roads</li> <li>Waste placement</li> <li>Drainage systems (Basins, channels)</li> <li>Construction at Cell CC4</li> <li>Erosion protection system</li> <li>Landfill for geotechnical and hydrological issues</li> <li>Other observations</li> <li>Review documentation</li> <li>Meet with Republic staff</li> </ul>	
<b>Access Roads.</b> <ul style="list-style-type: none"> <li>Main access road: No additional sloughing observed on the embankment on the Terminal Basin side, just at the edge of the previously repaired area at the limit of the jute netting. No stability concerns</li> <li>Access road to administration pad – no additional depression/settlement observed on slope.</li> </ul>	
<b>Waste Placement</b> <ul style="list-style-type: none"> <li>One waste face was were active in Cells CC3/CC4.</li> <li>4 Tilters were set-up (Photo 1)</li> <li>The landfill now operated also form 6:00 to 7:00 AM. Tarp is used to cover the morning waste until the arrival of the regularly scheduled waste after 9:00 AM (Photo 2)</li> </ul>	
<b>Drainage System</b> <ul style="list-style-type: none"> <li>Terminal Basin (Photo 3)               <ul style="list-style-type: none"> <li>– Sediments have accumulated upstream of the separator gabion wall reaching over the gabion wall on the south side of the basin</li> <li>– Removal is taking place (Photo 4)</li> <li>– vegetation has sprouted on top of the sediments (Photo 5)</li> <li>– The three skimmers are still buried in sediments and will be repaired until the sediment are removed and the basin cleaned</li> </ul> </li> <li>Cell CC3 Earthen basin               <ul style="list-style-type: none"> <li>– The basin is clean and available for storage</li> <li>– We noted that the deep erosion swale mentioned in previous visit has been graded (Photo 6)</li> </ul> </li> </ul>	

- East portion of the perimeter channel between Basin B and Terminal basin
  - Sediments and some detritus that had accumulated at the location of the asphalt berm have been removed (Photo 7)
  - Few areas still need cleaning, but the work is on-going and according to Republic staff all the channels will be cleaned by the beginning of the official rainy season
- Basin B
  - Basin empty of water and the sediments noted during the last visit have been collected in a pile in the middle of the basin which is slated for removal before long (Photo 8).
- Basin D
  - Basin is clean and available for water storage
  - We noted that some maintenance issues noted during the last visit still need to be addressed: still Southern Half
    - ✓ There is a gap between the shotcrete and the soil at the spillway which may cause problem is additional undermining occurs (Photo 9).
    - ✓ Vegetation is growing through crack in downstream side of spillway (Photo 9)
  - Northern Half
    - ✓ Safety bars are missing on top of the decant towers (Photo 10)
- Ditch along access road to Flare 9-11
  - The drain at the end of the concrete on side of road is plugged by sediments.
- Basin A
  - The sediments have been gathered in the middle of the basin and are ready for removal (Photo 11)
- The new perimeter channel that will drain Basin A is under construction and will be finished by the beginning of the rainy season (photos 12 and 13)
- Perimeter Channel between Basin A and Basin D
  - Channel in very good shape and clean, no vegetation and no cracks
- Channel along the main access road
  - Accumulated sediments were being removed (Photo 14)

#### Cell 4 Phase 3 Construction

- The upper geomembrane (80 mil) of the liner system (Photo 15) was being deployed (Photo 16)
- Sand bags were placed in the trenches installed to keep the geomembrane from bridging in the leachate collection system due to temperature variation during the day (Photo 17)
- Construction Quality Assurance was provided as demonstrated by air testing of seams and collection of destructive samples (Photo 18)
- The line system on the slopes differs and include a geosynthetic clay liner in lieu of a clay layer because of constructability and stability issues (Photo 19)
- The anchor trench for the geosynthetic component has been excavated along a bench on west side of the future cell. (Photo 20). The outside edge is properly rounded to minimize risk of damage to the geosynthetics

#### Erosion Protection Systems

- No changes since the last visit in May 2019, systems are in place.

#### Landfill for geotechnical and hydrological issues

- No fissures or cracks were observed in any of the slope or roadways

#### Other Observations

- Wall along San Fernando Road
  - No changes since last visit. drainage swale partially full of sediments
- No odor detected outside of landfill




<ul style="list-style-type: none"> <li>No illegal dumping along Sierra Highway</li> </ul>
<b>Documentation Review</b> <ul style="list-style-type: none"> <li>Per the technical committee comments, we reviewed the geotechnical report prepared in support of the design of the excavation for Cell CC4 Part 4 and construction of the buttress.</li> <li>The geomechanical parameters selected for the different materials (native, fill, and waste) are consistent with previous studies at the site and are state of knowledge and practice</li> <li>The methods used for the analyses are also consistent with state of the art and state of practice</li> <li>The section analyzed for stability were developed based on current topography, proposed grading and available boreholes and are representative of the study area.</li> </ul>
Close-out meeting with Republic Staff representative to discuss findings of visit
<b>FURTHER REVIEW NEEDED</b>
<ul style="list-style-type: none"> <li>None</li> </ul>
<b>COMMENTS</b>
<ul style="list-style-type: none"> <li>None</li> </ul>
Signed: 





Photo 1: Four tippers in used at waste face on cell CC4



Photo 2: Tarp used to cover early morning waste





Photo 3: Overall view of the Terminal Basin



Photo 4: Sediment removal on-going at Terminal Basin





Photo 5: Vegetation growing in sediments at Terminal Basin



Photo 6: Regraded erosion gully at basin at toe of Cell CC#





Photo 7: Cleaned north/east portion of perimeter channel



Photo 8: Sediment accumulation in Basin B





Photo 9: Erosion at contact between shotcrete of spillway and vegetation growing in spillway at southern half of Basin D



Photo 10: Missing safety guard bars on top of decant towers at northern half of Basin D





Photo 11: Sediments stockpiled in Basin A



Photo 12: New Perimeter Channel on south side





Photo 13: Detail of New Perimeter Channel on south side and perimeter road



Photo 14: Clearing of channel along main access road



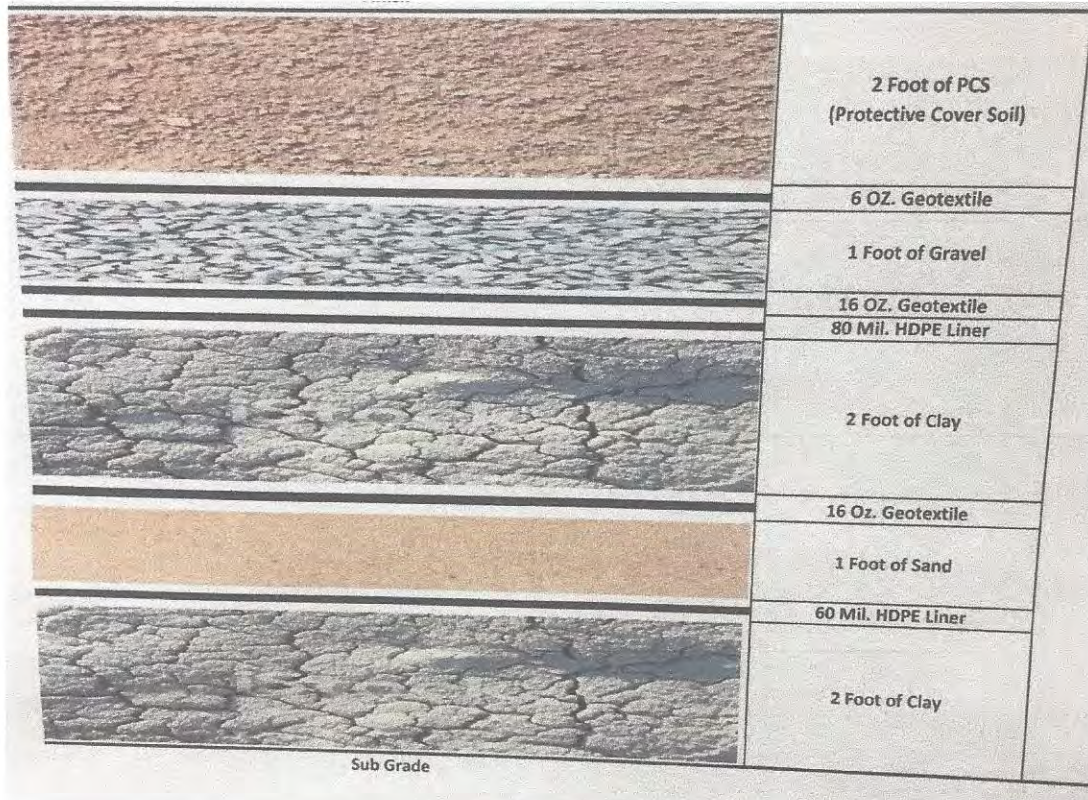


Photo 15: Double composite liner system for floor of cells



Photo 16: Deployment of 80 mil geomembrane on top of 2ft-thick clay layer at Cell CC4 Phase 4





Photo 17: Sand bags in trenches for leachate collection piping at Cell CC4 Phase 4



Photo 18: Construction Quality Assurance activities for Cell CC4 geomembrane





Photo 19: Liner system on slopes of Cell CC4 Phase including GCL



Photo 20: Anchor trench at bench of Cell CC4

# September Site Visits

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## September 25, 2019:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 9/25/19
Site Conditions: Cloudy 70-85° F, 0-10 MPH winds	
<b>SITE LOG</b>	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood and school areas from 6:10 to 6:45 a.m. and there were no landfill odors detected.. Met with Mike Lindsay (UltraSystems) and Tim Stapleton (LACDRP.) Also met with Gabriel Esparza (LACDPW) at approximately 10:00 a.m. We signed in at the office, had a brief conversation with Josh Mills (Republic) and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• CC-4 Part 1/2 slopes looked manicured with the HDPE drainage systems repaired. No straw wattles have been installed. There was no odor from this morning operations (6:00-7:00 a.m.)</li> <li>• The Closure Turf looked well maintained.</li> <li>• The depression in the Old City South landfill stockpile has not changed.</li> <li>• Liquid and gas removal gabions were being installed on the floor liner of CC-4 Part 3. Slopes in this area are being lined.</li> <li>• Sediment in the terminal basin has been removed to the gabion wall and wet sediment east of the wall in the outlet side is being trucked away. The outlet channel has minimal sediment on the channel floor. The concrete base for the chain link fence had lifted approximately twelve inches along the basin's top walkway. The outlet skimmers are still buried in sediment.</li> <li>• The oil field flare was operating burning production gas. All oil well pumping jacks were not operating.</li> <li>• The southern perimeter oil field gate was locked.</li> <li>• Deck B sage mitigation area was doing well. Some natives show dieback from hot summer conditions. There was no mustard weed.</li> <li>• Deck C sage mitigation area was doing well. Mustard weed was removed. Some natives show dieback from hot summer conditions.</li> <li>• A new odor control mister system was installed and operating on poles adjacent to the PM-10 berm oak trees.</li> <li>• Waste was being placed in CC-4 Part 1/2. The active area was approximately 1 1/2 lifts from the CC-3A top deck elevation.</li> <li>• Sediment was removed from the center area of Basin A. Sediment around the interior wall was being piled for removal. Rock around the outlet risers was not yet cleaned.</li> <li>• A new section of the permanent westside drainage channel was being installed below the CC-4 Part 3 buttress. The outlet from Basin A was not yet constructed. Wind-blown litter was seen in the small canyon vegetation near the construction.</li> <li>• The county top deck had additional wet weather rock and asphalt stockpiled. Trucks were using dirt access roads not watered, and dust clouds were seen.</li> </ul>	

Page 2 of 2, 9/25/19:

- The soil stockpiled from the CC-4 Part 3 buttress construction was removed from the County top deck.
- The native vegetation on the County sage mitigation slopes was doing well.
- Basin B had a small pile of sediment ready for removal.
- Localized odors were detected near the Basin B outlet channel at approximately 12:00 p.m.
- The eastside channel had sediment, debris, and gabion rock not yet removed from the Adler Tank farm to the terminal basin.

Flare Operating Conditions:

- Flare 1 - 1687°F, 2354 SCFM, -57.93 vacuum, 38.60" out, 32% CH<sub>4</sub>, 0.4% O<sub>2</sub>, 100 ppm H<sub>2</sub>S
- Flare 3 - 1641°F, 2712 SCFM, -84.5 vacuum, 41% CH<sub>4</sub>
- Flare 9 - 1656°F, 3374 SCFM, -62.71 vacuum, 37.63" out
- Flare 10 - down for maintenance
- Flare 11 - 1646°F, 3411 SCFM

The gas-to-energy plant was using 7,911 SCFM of recovered landfill gas, 44% CH<sub>4</sub>, 0.9% O<sub>2</sub>, 100 ppm H<sub>2</sub>S. Total gas volume recovered was 19,762 SCFM.

FURTHER REVIEW NEEDED

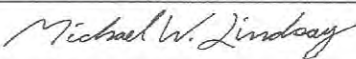
COMMENTS

Signed:





**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 09-25-2019      Wednesday
Site Conditions: Clear, 69–84 °F, 3–10 mph, 58% RH	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas (UltraSystems), and checked into office and with Joshua Mills (Republic).</li> <li>2. Met with Tim Stapleton (LAC DRP).</li> <li>3. Traffic spotters are onsite to control traffic.</li> <li>4. Observed Cell CC-4 Part 3 construction, including liner and gabion block installation.</li> <li>5. Street sweepers are cleaning the haul roads.</li> <li>6. The terminal basin continues to be cleared of wet soil, with about 50% remaining.</li> <li>7. Vegetation is growing out of concrete joints near terminal basin outlet upper deck.</li> <li>8. Oil field flare is operating, with all pumping jacks offline.</li> <li>9. Flare 1 is operating at 2354 scfm, 1693 °F. Gas sample measured at 32 % Vol. CH<sub>4</sub>, 0.4 % Vol. O<sub>2</sub>, 100 ppm H<sub>2</sub>S and 202 ppm CO. Gas inlet temperature is 126 °F.</li> <li>10. Water trucks are applying water throughout site for dust control.</li> <li>11. City deck B sage mitigation area is in good condition.</li> <li>12. City deck C sage mitigation area is in good condition.</li> <li>13. Observed new water mister lines elevated along the PM-10 berm for odor control.</li> <li>14. Met with Gabriel Esparza (LAC DPW).</li> <li>15. The working area at Cell CC-4 Part 1/2 is in good order, including three tippers, traffic controllers, water misters and water trucks for odor and dust control, and a hand unload area.</li> <li>16. Flare 3 is operating at 41 % Vol. CH<sub>4</sub>, 0.5 % Vol. O<sub>2</sub>, 71 ppm H<sub>2</sub>S and 264 ppm CO. Gas inlet temperature is 155 °F.</li> <li>17. Sediment basin A has soil being removed.</li> <li>18. New westside drainage channel construction is being completed.</li> <li>19. Flare 9 is operating at 3413 scfm, 1653 °F. Gas sample measured at 44 % Vol. CH<sub>4</sub>, 0.9 % Vol. O<sub>2</sub>, 100 ppm H<sub>2</sub>S and 294 ppm CO. Gas inlet temperature is 151 °F</li> <li>20. Flare 10 is offline.</li> <li>21. Flare 11 is operating at 3500 scfm, 1661 °F.</li> <li>22. Sediment basin B has soil piled up, ready for removal.</li> <li>23. Localized landfill gas odors are present south of sediment basin B at 11:55 AM.</li> <li>24. Alder tank farm is in good order.</li> <li>25. Met with Chris Coyle (Republic), and discussed our site monitoring observations.</li> </ol>	
<b>FURTHER REVIEW NEEDED</b>	
<ol style="list-style-type: none"> <li>1. Remove vegetation from concrete at terminal basin.</li> </ol>	
Signed: 	

# Appendix IV

## Meeting Logs

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**Sunshine Canyon Landfill  
Meeting Log for July 2019 Site Monitoring**

July 9, 2019

Post-monitoring meeting with Joshua Mills (Republic).

Attendees:

Alex Garcia, LACDRP  
Tim Stapleton, LACDRP  
James Aidukas, UltraSystems  
Tarik Hadj-Hamou, SLR  
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 we surveyed the landfill for any impacts from the Ridgecrest earthquake and no cracks, fissures, or land movement were observed.
  - o Joshua Mills stated that Republic had GLA Engineers inspect the landfill after the large earthquake and no site problems were observed.
- b. James Aidukas asked why the main header pipe and valve were unearthed below Flares 9, 10, and 11.
  - o Joshua Mills stated that they are adding a 4-port 42-inch manifold at this point for future blowers and flares. A new blower skid and Flare 12 is scheduled for installation next year.
- c. James Aidukas stated that we observed that roadwork was being performed at the entrance and asked what was being done.
  - o Joshua Mills stated that the roadway box channel under the grate was failing and was being replaced with a new concrete box channel.
- d. James Aidukas stated that we observed that there was standing water in the terminal basin at the outlet risers and asked if it was being pumped out and used for dust control.
  - o Joshua Mills acknowledged the statement, and said that it was being used on site.
- e. Mike Lindsay asked what the airspace volume was for the new Cell CC-4 Part 3.
  - o Joshua Mills stated that it is approximately five million cubic yards.
- f. Tarik Hadj-Hamou stated that we observed that the construction crews were digging deep in the east corner of Cell CC-4 Part 3 and asked if this was for a temporary cell basin.
  - o Joshua Mills stated that that location is the low-point drainage collection area.
- g. Tarik Hadj-Hamou stated that vegetation is growing out of concrete cracks at the eastside drainage channel, with some debris present at the humps and gabions.
  - o Joshua Mills acknowledged the statement.

- h. Mike Lindsay stated that we observed a clean-out vacuum truck that was working along the eastside drainage channel.
  - o Joshua Mills stated that a jetting and vacuum truck was cleaning out the landfill liquids forced main pipeline, and that they are now also using FlowMate calcium carbonate descalers to keep the pipelines from plugging.
- i. Tarik Hadj-Hamou stated that there is an erosion gully at sediment basin 3B.
  - o Joshua Mills stated that they will rework that area when the admin buildings are relocated.
- j. Tarik Hadj-Hamou stated that the northern outlet riser at sediment basin D have no personnel guards on top to limit access.
  - o Joshua Mills acknowledged the statement.
- k. Tarik Hadj-Hamou stated that vegetation is growing out of the sediment basin D concrete overflow drainage channel.
  - o Joshua Mills acknowledged the statement.
- l. James Aidukas stated that there was some comingled trash in the soil at the working area.
  - o Joshua Mills stated that they will follow-up with how that occurred.
- m. James Aidukas stated that the abandoned motorhome on Sierra Highway is still on the roadway.
  - o Joshua Mills acknowledged the statement.

The meeting was then adjourned.



**Sunshine Canyon Landfill  
Meeting Log for August 2019 Site Monitoring**

August 13, 2019

Post-monitoring meeting with Joshua Mills, Tuong-phu Ngo and Valarie Moore (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 asked what the status was for completion of the liner for Cell CC-4 Part 3.
  - o Valarie Moore stated that the cell's floor will be complete in mid-September and the slopes in mid-October. The project is about half-way complete at this time.
- b. James Aidukas asked if the gabion liquid removal and gas recovery system will be installed at the floor liner in Cell CC-4 Part 3.
  - o Valarie Moore stated that yes, they will be installed.
- c. James Aidukas asked what the schedule was for installing a drainage connection from Basin A to the westside drainage channel.
  - o Joshua Mills stated that they are currently looking at the drainage design, and the capacity has been increased. The construction should be completed by October 15th.
- d. James Aidukas stated that we observed that the buttress drainage channel was under construction.
  - o Joshua Mills stated that that drainage system currently includes some temporary channels and all will be completed by October 15th.
- e. Gabriel Esparza asked if Republic had received the County's comments regarding Cell CC-4 Part 3.
  - o Joshua Mills stated that yes, Republic was working on their responses to the comments.
- f. James Aidukas stated that Flare 3 was at 46% CH<sub>4</sub>.
  - o Joshua Mills acknowledged the statement.
- g. James Aidukas stated that a new HDPE lined drainage channel on the old City south slope has been built in a sharp Z-configuration.
  - o Joshua Mills stated that the water was flowing down the slopes in that configuration and the HDPE was placed to stop erosion.

- h. James Aidukas stated that we observed that the gabion blocks to divert rain run-off have been removed on the roadway up to City deck C.
  - o Joshua Mills stated that they are realigning and widening the roadway, and that storm water controls will be installed when the road is completed.
- i. James Aidukas stated that the eastside drainage channel was cleared of sediment and debris to the Alder tank farm, but from the tank farm south sediment, debris, and vegetation has not been removed.
  - o Joshua Mills stated that they will have all of the storm water controls cleaned by October 15th.
- j. James Aidukas asked if water level markings could be painted onto the terminal basin side wall to gauge the sediment height.
  - o Joshua Mills stated that Republic will discuss the idea internally.
- k. James Aidukas stated that the City deck B and City deck C sage mitigation areas are doing well.
  - o Joshua Mills acknowledged the statement.
- l. James Aidukas stated that the PM-10 berm oak trees have tall, thick brush around the trees that needs to be cleared.
  - o Joshua Mills stated that Mike DeYoung (Republic) is coordinating the removal of the brush.
- m. Mike Lindsay stated that we observed that a new blower pad has been installed by Flare 11.
  - o Joshua Mills stated that it is for additional capacity and will serve the future Flare 12.
- n. Mike Lindsay asked how much soil is planned for the final toe berm project.
  - o Joshua Mills stated that about 1.8 million cubic yards is planned, with the project about three years out, with the administration buildings and scale facilities relocation occurring much sooner.

The meeting was then adjourned.



**Sunshine Canyon Landfill  
Meeting Log for August 2019 Site Monitoring**

August 27, 2019

Post-monitoring meeting with Chris Coyle, Tuong-phu Ngo, Mike DeYoung, Dennis Montano and Valarie Moore (Republic).

**Attendees:**

Tim Stapleton, LACDRP  
James Aidukas, UltraSystems  
Tarik Hadj-Hamou, SLR  
Mike Lindsay, UltraSystems



**Discussion:**

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

- a. Tarik Hadj-Hamou requested to see the liner design as-built drawings currently being used for Cell CC-4 Part 3.
  - o Chris Coyle stated that Republic will send the drawings.
- b. Tarik Hadj-Hamou stated that we observed that the sediment basins were in the process of being cleaned.
  - o Chris Coyle stated that they are chipping away at it and were scheduled to be completed before October 15.
- c. James Aidukas asked if the terminal basin skimmer system will be utilized this year.
  - o Chris Coyle stated that the contractor will be cleaning and doing any repairs to the skimmers and they will be ready for use in October.
- d. James Aidukas asked if the two new 48-inch corrugated drainage pipes east of the CC-4 Part 3 buttress are part of the permanent westside drainage system.
  - o Tuong-phu Ngo stated that yes, they are part of the permanent westside perimeter drainage.
- e. James Aidukas asked if the new sediment basin A outlet channel will be constructed as part of the westside drainage project.
  - o Chris Coyle stated that yes, it will be part of the permanent perimeter drainage project.
- f. James Aidukas stated that a Republic packer truck was leaking liquid while queued at the scales at 8:30 AM.
  - o Chris Coyle stated that they will track it down after they are provided the truck number.
- g. James Aidukas stated that illegally dumped debris is present along Sierra Highway. Some is located in the Santa Clarita area and some within the Republic clean-up area.

- Chris Coyle stated that they will call Santa Clarita via the 311-phone system and have Republic's crew monitor and clean up what they are responsible to remove.
- h. James Aidukas stated that no odors were present in the adjacent neighborhood or school this morning between 6:30 -7:00 and 9:30-10:00 a.m.
  - Chris Coyle acknowledged the statement, and said that Republic's odor patrol reported the same.
- i. James Aidukas stated that the Cell CC-3A top deck had localized odors at 11:00 AM.
  - Chris Coyle acknowledged the statement.
- j. James Aidukas stated that there were localized odors detected in the area of the north Alder tanks at 10:30 AM.
  - Tuong-phu Ngo stated that they had to temporarily shut down the flares to remove a generator around that time, causing the vacuum recovery at the tanks to be shut down.
- k. James Aidukas stated that the eastside drainage channel east of the tank farm needs to be cleaned out.
  - Chris Coyle stated that all of the cleanout work has been scheduled.
- l. James Aidukas stated that localized odors were detected near Cell CC-3B trenching work at 10:25 a.m.
  - Mike DeYoung stated that they were making a tie-in and that they will increase the use of deodorizer.
- m. Tim Stapleton stated that the storage yard by sediment basin D has broken-down trucks being stored.
  - Chris Coyle stated that they will be disposed of properly.
- n. Chris Coyle stated that no one will trim the oak trees at the front entrance due to the slope of the terrain and the proximity to San Fernando Road.
  - James Aidukas acknowledged the statement.
- o. James Aidukas stated that Edison is predicting power outages in the area.
  - Chris Coyle stated that Republic has additional backup generators on call if needed.
- p. James Aidukas asked how the 6:00 to 7:00 a.m. trash receiving program was going.
  - Chris Coyle stated that everything was going well, with no complaints.
- q. Mike Lindsay asked to review the records and logs related to landfill conditions of approval.
  - Tuong-phu Ngo, Mike DeYoung and Dennis Montano presented the necessary documents for review. These documents were well organized, current and in compliance with the necessary conditions of approval.



**Sunshine Canyon Landfill  
Meeting Log for September 2019 Site Monitoring**

September 25, 2019

Post-monitoring meeting with Chris Coyle, Joshua Mills, Mike DeYoung and Dennis Montano (Republic).

Attendees:

Tim Stapleton, LACDRP  
Gabriel Esparza, 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 the Flare 9 deck had fresh localized trash odors coming from the operating area at 11:40 AM. These odors were not leaving the site.
  - o Chris Coyle acknowledged the statement.
- b. James Aidukas stated that the gas wells south of sediment basin B and east of the County bowl area had localized gas odors at 11:50 AM. The exact source could not be determined.
  - o Joshua Mills stated that they believe it is a sulphur odor, and they are planning on placing additional soil in the swales between well connections to eliminate the odors.
- c. James Aidukas asked if the Cell CC-3A top deck corner well (number 2013) is still producing a substantial gas output.
  - o Joshua Mills stated that they are planning to drill 12 wells in this area. Seven (7) wells on the north side of CC-3A and five-to-six (5-6) wells at the perimeter.
- d. Chris Coyle stated that Republic has a well-defined gas well drilling protocol to drill, cap and make operational every new well, each completed in one day.
  - o James Aidukas acknowledged the statement.
- e. Chris Coyle stated that Republic has installed and is operating a water mister line on the PM-10 berm to provide additional odor control. The SCAQMD current odor-related calls have added extra attention and focus to the effort.
  - o James Aidukas acknowledged the statement.
- f. James Aidukas stated that large, empty dump trucks used to remove soil from the terminal basin were traveling at 30-plus miles per hour, causing dust clouds on dry dirt roads and a safety concern.
  - o Chris Coyle stated that they will take care of these issues.
- g. James Aidukas stated that the eastside drainage channel has been cleaned up to the Alder tank farm. From the tank farm to the terminal basin had not been cleaned.

- Joshua Mills stated that they have that scheduled to be completed by October.
- h. James Aidukas stated that the City south roadway looks good with the new realigned road, and asked if K-rails would be used to control stormwater.
  - Joshua Mills stated that new gabion blocks will be installed soon.
- i. James Aidukas stated that the new westside drainage channel currently transitions into 36" pipes. Also, there are two drainage pipes going directly into the temporary basin.
  - Joshua Mills stated that all water will eventually pass through sediment basin A on its way to the permanent westside channel.
- j. James Aidukas stated that City decks B and C look fantastic.
  - Chris Coyle acknowledged the statement.
- k. James Aidukas stated that all the oilfield pumping jacks were offline, and the oilfield temporary flare was operating burning production gas.
  - Chris Coyle acknowledged the statement.

The meeting was then adjourned.