

**Sunshine Canyon Landfill  
Independent Monitor  
Quarterly Site Monitoring Status Report  
January 1, 2020 – March 31, 2020**

*Prepared For:*

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

*And*

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



*Prepared By:*



**UltraSystems**  
environmental | management | planning

16431 Scientific Way  
Irvine, California 92618

*Prepared On:*

June 17, 2020



**UltraSystems**  
environmental | management | planning

## **CERTIFICATION STATEMENT**

June 17, 2020

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated June 17, 2020 is the First Quarterly Report for 2020, issued by UltraSystems. This report covers the monitoring period from January 1, 2020 through March 31, 2020 and is prepared for the City of Los Angeles Department of City Planning and the County of Los Angeles Department of Regional Planning.

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

Signed,

James T. Aidukas

Project Manager



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Sunshine Canyon Landfill City Mitigation Monitoring Summary  
(see spreadsheet)

Sunshine Canyon Landfill County Mitigation Monitoring Summary  
(see spreadsheet)

## Appendices

Appendix I	Further Review Needed Comments: Reference I-a through I-c
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 January 1, 2020 to March 31, 2020. It includes:

1. The City and County Mitigation Monitoring Summary spreadsheets for January 1, 2020 to March 31, 2020. These spreadsheets record the areas of monitoring completed and the status of being compliant during the first quarter of 2020;
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

Two site visits were performed by UltraSystems during the January through March 2020 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on January 13, 2020; and February 26, 2020. On March 25, 2020, a remote site monitoring conference call was held in lieu of a normal site monitoring visit in order to follow the Centers for Disease Control and Prevention (CDC) guidelines for COVID-19 health protocols. 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 landfiling operations as necessary to accommodate development of the ultimate landfill footprint.*

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

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

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

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

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

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

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

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

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

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

**Biota-4.34 (County)**

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

**Current Status/Comments** – There was no grading outside of the approved landfill development limits during the 1st Quarter except for grading of an access road to repair powerlines that were hit by an airplane on March 13, 2020. This grading was done on the Sunshine Canyon's north and west ridgelines. Cells CC-4 Part 3 and CC-4 Part 1/2 were accepting waste. CC-4 Part 1/2 will finish filling current areas in April, and CC-4 Part 3 will then be the only active area.

**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 January, there were dust clouds coming from equipment moving on the County top deck near the County soil stockpile area. The frequency of the water trucks was not adequate. In February, there were large dust clouds coming from the main access leading to and on the Cell CC-4 Part 1-2 working area. Republic staff employed additional water trucks when notified of the dust occurring. Spotters should be used to monitor and mitigate dust generating activities. The use of a soil sealant should be considered if the application of water cannot control the dust.

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

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

**Current Status/Comments** – In January, graffiti was observed on the exterior block wall at the I-5 Balboa Boulevard offramp.

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

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

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

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

**Gas - 52 (County)**

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

*The Permittee shall also install and maintain a landfill gas collection system complying with SCAQMD requirements, which uses best available control technology to control the lateral migration of gases to*



*the satisfaction of the Director of Public Works, County LEA, and SCAQMD. In addition to the other requirements of this Condition No. 52, Landfill gas flares shall be installed below the adjacent interior ridges of the site, unless otherwise required by the SCAQMD, and the flames shall be totally contained within the stacks. Flame arrestors shall be provided to the satisfaction of the County Forester and Fire Warden.*

**Current Status/Comments** – In mid-January, the gas-to-energy plant usage was not recorded. Flare 1 was burning 2380 SCFM of recovered landfill gas, 35% CH<sub>4</sub>, 1.6% O<sub>2</sub>, 100 ppm H<sub>2</sub>S; Flare 3: was not accessible due to construction activity; Flare 9 was burning 2475 SCFM; Flare 10 was burning 2475 SCFM; Flare 11 was burning 2295 SCFM. The total volume of landfill gas being flared was 9625 SCFM. The quality of the gas recovered was 45% CH<sub>4</sub>, 1.2% O<sub>2</sub> and 100 ppm H<sub>2</sub>S.

In late February, the gas-to-energy plant was using 6488 SCFM of recovered landfill gas, 46% CH<sub>4</sub>, 1.0% O<sub>2</sub>, 100 ppm H<sub>2</sub>S. The usage was low because the plant was being shut down for a main gas header tie-in. Flare 1 was burning 2308 SCFM, 33% CH<sub>4</sub>, 1.6% O<sub>2</sub>, 100 ppm H<sub>2</sub>S; Flare 3 was burning 1974 SCFM; Flare 9 was burning 2792 SCFM; Flare 10 was burning 2801 SCFM; Flare 11 was burning 2381 SCFM. The total volume of landfill gas being recovered was 18,744 SCFM.

If one uses the February data, the quantity of landfill gas being recovered during the 1st Quarter has a daily average of 18,744 SCFM, with the gas-to-energy plant usage averaging 6488 SCFM. This plant volume does not reflect the total gas average accurately due to the inability to record the gas-to-energy facility's gas usage in January, and the facility being in the process of shutting down for a main gas header tie-in in February. The prior year's daily volumes of gas used by the gas-to-energy plant averaged between 9600 and 9800 SCFM.

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 normal and emergency ingress and egress should be prepared and sent to the local City fire department station and the City and County planning when 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. Key management personnel contacts should be provided to the City Fire Department.

**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 1st Quarter was related to grading of an access road on the north and west ridgelines to repair powerlines that were hit by an airplane on March 13. The only other grading occurring was for additional filling areas for CC-4 Part 1/2, 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** – There were no earthquakes of 5.0 magnitude or greater in the area during this monitoring period. In February, there was a 3.5 magnitude earthquake near Castaic.

**M-4.1.1(6) (City)**

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

**M-4.2.11(23) (City)**

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

**M-4.2.12 (28) (City)**

*Site Erosion*

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

*d. An SCAQMD approved soil stabilization (sealant) product shall be used to retard soil erosion and enhance revegetation. Soil sealant shall be applied when necessary to selected working areas of the landfill. The sealant will also be used as a binder or tackifier to hold seen during revegetation mulch, and fertilizers in-place until grasses become establish and stabilize on the landfill surface.*

**Geology-1.13 (County)**

*Revegetation and erosion control of all exposed slopes will be an ongoing process. The erosion controls to be implemented at the site will include soil stabilization measures and revegetation in accordance with the approved Revegetation Program. The installation of interceptor ditches shall be designed for the diversion of storm runoff to sedimentation basins. Sediment traps will be used at points of runoff concentration along the perimeter of exposed slopes surfaces.*

*Condition: Approval of drainage plan. Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.*

**Geology-1.14 (County)**

*To prevent soil erosion on the face of the landfill, interim vegetation measures will be taken after placement of the temporary soil layer (even though the area may be disturbed by future filling operations). Vegetative cover will be placed as in the approved Revegetation Program.*

*Condition: Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.*

**Biota – 4.42 (County)**

*Areas inactive for 180 days or longer will be planted with interim vegetation as approved by County biologist. Records will be kept to track fill areas of the site which are transferred to an inactive status so that appropriate dust control and revegetation measures can be implemented.*

**Air Quality - 6.02 (County)**

*Dust Control will also be accomplished through the temporary revegetation of the landfill surface. A temporary revegetation of the landfill surface, and a temporary vegetation cover will be established on all slopes that are to remain inactive for a period longer than 180 days. Specifications of temporary revegetation measures will be provided in the Revegetation Plan submitted to the County biologist for approval, the Closure and Postclosure Maintenance Plans, the Condition Use Permit, and Conditions of Project Approval.*

**Visual-10.08 (County)***Cover/Revegetation Requirements*

*The permittee shall comply with the following cover and re-vegetation requirements at the Landfill:*

*(1). The permittee shall apply a temporary hydroseed vegetation cover on any slope or other Landfill area that is projected to be inactive for a period greater than 180 days, as set forth in the IMP. The permittee shall promptly notify the County LEA and the Department of Public Works of any such slope or area;*

*Revegetation Requirements*

*(5) Notwithstanding the foregoing, the permittee shall not be bound by the previous provisions of this Condition No. 44, but instead by the requirements of the County LEA, so long as the Limits of Fill are not exceeded, if in consultation with the Department of Public Works, the County LEA determines that a different re-vegetation design or plan:*

*(1) would better protect public health and safety;*

*(2) would enable revegetation of the final slopes at least as well as shown in Exhibit "B" described in subsection D, above; and/or experts, including an independent, qualified bio (3) would be required because the minimum standards adopted by the CIWMB have been amended;*

*(6) the permittee shall employ an expert or biologist, to satisfy this Condition No. 44. Soil sampling and laboratory analysis shall be conducted in all areas that are required to be re-vegetated before any re-vegetation occurs to identify chemical or physical soil properties that may adversely affect plant growth or establishment. Soil amendments and fertilizer recommendations shall be applied and plant materials selected, based on the above referenced testing procedures and results. To the extent possible, plant types shall blend with species indigenous to the area, be drought tolerant, and be capable of rapid growth. The selected plants shall not include nonindigenous species that are likely to be invasive of adjacent natural areas.*

**Biota - Revegetation - 44.A (County)**

*A. The Permittee shall apply a temporary hydroseed vegetation cover on any slope or other Landfill area that is projected to be inactive for a period greater than 180 days, as set forth in the IMP. The Permittee shall promptly notify the SCL-LEA and the Department of Public Works of any such slope or area.*

**Revegetation - 44.F/44.F CUP (County)**

*F. The Permittee shall employ an expert or experts, including an independent, qualified biologist, to satisfy this Condition No. 44. Soil sampling and laboratory analysis shall be conducted in all areas that are required to be re-vegetated before any re-vegetation occurs to identify chemical or physical soil properties that may adversely affect plant growth or establishment. Soil amendments and fertilizer recommendations shall be applied and plant materials selected, based on the above-referenced testing*

*procedures and results. To the extent possible, plant types shall blend with species indigenous to the area, be drought tolerant, and be capable of rapid growth. The selected plants shall not include non-indigenous species that are likely to be invasive of adjacent natural areas.*

**Current Status/Comments** – During the 1st Quarter, 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 on the south-facing slopes, and controlled and eliminated dust and erosion. Other areas of the landfill were also hydroseeded. These and the other areas affected by the Saddleridge Fire that were hydroseeded had germinated and were growing. The soil stockpiled on the County top deck was being used for daily cover.

#### **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.

#### **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 recovery 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 January, the monitor drove the Granada Hills neighborhood area from 6:30 to 7:10 a.m. and there were no landfill odors detected. Landfill gas odors were detected on the Cell CC-3A top deck in the morning. SCS had construction activity occurring on the gas collection system. The new blower skid's north blower at Flare 9, 10 and 11 had gas odors coming from the output flange. Republic stated that they received 16 odor complaints in December.

In February, the monitor drove the Granada Hills neighborhood areas from 6:15 to 7:00 a.m. and there were no landfill odors detected. No odors were detected at the site. A new main gas collection pipeline was installed north of the new scales location with a branch main collector to the west to enhance gas collection from the CC-3A top deck.

Throughout the 1st Quarter, the use of Closure Turf to seal fill areas and function as intermediate cover provided enhanced gas recovery and gas-related odor control. There were no gas or liquids odors detected coming from the Closure Turf areas. No areas of the Closure Turf were impacted by the fire.

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

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

#### **Surface Water - 2.03 (County)**

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

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

*Permanent bench drainage ditches shall be installed when final cover is placed on completed portions of the landfill. These ditches shall be lined. Temporary unlined drainage facilities consisting of*

*diversion ditches (V-ditches) where necessary shall directly intercept natural surface runoff. Any intermittent channel flow in the existing canyon bottom shall be captured, channeled, and conveyed into a sedimentation basin. Diversion ditches shall convey surface runoff from the undisturbed areas to the permanent perimeter ditches for safe transport around the landfill footprint. Surface covers of various types, from mulches to vegetation, shall be used to retard erosion from areas of disturbance. In addition, areas of disturbance shall be kept at a minimum during active filling operations.*

### **Surface Water - 2.12 (County)**

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

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

During the 1st Quarter, surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas, and most conveyance V-ditches were unlined. Straw wattles were placed on the CC-4 Part 1/2 western and southern facing slopes. Other areas had jute netting or were hydroseeded. Erosion protection systems were in place.

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

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

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

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

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

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

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

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

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

**Current Status/Comments** – In the 1st Quarter, surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas, and most conveyance V-ditches were unlined. Straw wattles were placed on the CC-4 Part 1/2 western and southern facing slopes. Other areas had jute netting or were hydroseeded. Erosion protection systems were in place.

Some gullies and ruts were observed on the slopes above the CC-4 Part 3 basin to the east of Basin A in the soil stockpile area. In January, we investigated a large crevice on the eastern exterior slope of Sunshine Canyon (on the Caltrans jurisdiction side) just north of the Adler condensate tank farm. It appeared that the crevice was caused by years of uncontrolled erosion, and had become visible because of the fire that burned through the vegetation. In March, Caltrans repaired the slope.

**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 January, Basin A had approximately 80% of the floor covered with standing water. A minimal amount of water was observed being discharged into the westside channel. Basin B was free of water, with the floor areas covered with dry and moist sediment. Litter was observed in the back eastern area. Vegetation was growing in cracks in the high-flow spillway. The terminal basin had standing water at the outlet risers with a significant amount of debris floating on the water. Over half of the basin's floor was covered with a significant amount of sediment. The outlet had some sediment and windblown litter present.

In February, Basin A was dry. Hillside and basin windblown litter was removed. Minimal sediment was in the basin. Basin B had no standing water. There was minimal sediment with most of it dry except for the back eastern area. Vegetation is growing in the concrete cracks of the high-level spillway. The terminal basin had standing water at the outlet risers with a significant amount of debris floating on the water. Over half of the basin's floor was covered with a significant amount of sediment. The CC-4 Part 3 basin had standing water, sediment and debris.

In March, the basins were performing as designed. Late rain events cause water and sediment to be retained.

#### **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 1st Quarter, a preventative maintenance program with inspection of facility equipment, systems and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater was performed on a monthly basis. A summary report should be issued on a quarterly basis. Prior reports have been reviewed and are available at the landfill's main office.

In January and February, it was observed that the Basin B high-flow outlet had vegetation growing out of numerous cracks in the concrete. In the same period, the terminal basin had vegetation growing out of cracks in the interior and exterior concrete side walls and top access walkway.

#### **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. During the 1st Quarter, this system operated with no odors detected at the tank farm or the sewer connection. Tank farm liquids were being treated with a 30% hydrogen peroxide solution.

#### **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 January, sage mitigation areas Decks A, B and C were recovering from the Saddleridge Fire. JMA advised Republic to let them recover and just remove non-natives. The County sage mitigation area slopes did not get burned and were greening up. The Big Cone Fir mitigation tree area was observed. The fire impacted this area. A biological evaluation and count of trees lost should be performed.

In February, City Deck B native plants were slowly recovering from the fire and gas recovery system's piping replacement was completed. City Deck C native plants were slowly recovering from fire impacts. The County sage mitigation area slopes were greening up. Native vegetation is doing well in select areas. The area with prior erosion rills had some native vegetation growing.

In March, non-native vegetation was being removed on Decks B and C.

#### **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 measured 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** – Republic stated that an updated mitigation tree report evaluating the impacts of the Saddleridge Fire will be prepared and show any mitigation planting required.

**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** – Prior to the 1st Quarter, the City was writing and preparing documents to adopt an ordinance to allow the wetlands and riparian mitigation to be created in the Chatsworth Reservoir. All environmental analysis had been completed. Republic stated that there has been no progress in finalizing and adopting the ordinance. Time extension letters from the US Corps of Engineers and the California Department of Fish and Wildlife were in place for 2019. New extension letters for 2020 have not been received.

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

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

**Current Status/Comments** – Throughout the 1st Quarter, the monitor drove San Fernando Road to Sierra Highway on each monitoring visit to observe if these areas had any wind-blown litter and illegally-dumped waste picked up. This area is monitored and waste is removed by Republic.

In January, the monitor drove Sierra Highway and observed bags of trash and a dumped mattress near the I-14 overpass.

In February, trash and debris were observed on the Sierra Highway roadway shoulder north of the I-14 overpass.

All other maintained areas were free of illegally-dumped trash and debris in the 1st Quarter.

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

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

*continued deterrent for unauthorized entry to the project site. Additionally, the landfill operator shall maintain posted "no trespassing" signage at the exterior perimeter fencing nearest the project site entrance.*

**Current Status/Comments** – Throughout the 1st Quarter of 2020, 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 1st Quarter of 2020, the paleontologist was not needed to monitor grading activities. No grading occurred in native, undisturbed areas.

## Additional Site Procedures Due to COVID-19

### UltraSystems Approved and Adopted COVID-19 Monitoring Procedures

To follow the CDC guidelines for COVID-19 health protocols and to comply with State, County and City restrictions, UltraSystems obtained agency approval and adopted procedures to have safe site monitoring during the COVID-19 crisis. Monitoring of the landfill would occur on one day of each month during April through June, 2020. UltraSystems will send a single engineer to perform a fact-finding visit in a single vehicle. The engineer will sign-in by phone with landfill staff when arriving onsite. The engineer will start at the office parking lot and drive around the site, making observations and taking pictures of the current landfill conditions, construction activities, waste disposal, gas recovery and flaring. The engineer will not leave the immediate area of the vehicle or have personal contact with any landfill staff or waste disposal customers. Photo locations would include at a minimum:

- CC-4 Part 1 & 2
- CC-4 Part 3
- CC-4 Part 4A construction
- Current disposal areas
- Sedimentation basins
- Gas-to-energy locations
- Flares
- New office and scales construction
- Sage mitigation areas
- Offsite areas to monitor illegal dumping and/or windblown litter
- Offsite areas to monitor odors

After performing the site visit, the UltraSystems engineer will notify Republic staff that he is signing out and leaving the site. All photos will be emailed to Republic staff, City LEA, County Planning and Department of Public Works. An after-visit site monitoring conference call will follow after reviewing and analyzing the observations and photos.

Additionally, Republic staff stated that Sunshine Canyon Landfill took the following steps to protect employees from the COVID-19 virus:

- Acquired another employee van to have fewer people in a vehicle
- Implemented separate lunch schedules
- Set a limit of two people at a time in the locker room
- Installed new handwash stations around the facility
- Will put out buckets of water and bleach when parts arrive
- Will wipe down vans twice per day
- Issuing latex gloves
- Performing weekly deep cleaning
- Performing daily cleaning of door handles
- Eliminating the need for non-essential signatures

In the 1st Quarter of 2020, no one had contracted the COVID-19 virus at the Sunshine Canyon Landfill.

## Summary of Requested Documents

### Part I – Reports and Plans

The following reports and plans were made available onsite and were reviewed in printed and electronic formats in the 4th Quarter of 2019. These will be reviewed again in the 3rd Quarter of 2020. 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 onsite were reviewed in printed and electronic formats in the 4th Quarter of 2019. These will be reviewed again in the 3rd Quarter of 2020. 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 forklifts 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 2020 First Quarter Mitigation Monitoring Summary spreadsheets track the progress and completion of tasks as they were accomplished during this quarterly period.

# Sunshine Canyon Landfill City Mitigation Monitoring Summary

## (01-01-2020 through 03-31-2020)

	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2019												First Quarter 2020											
					10/29/2019	Status*	Further Review Needed/Comments**	Resolved*	11/19/2019	Status*	Further Review Needed/Comments**	Resolved*	12/11/2019	Status*	Further Review Needed/Comments**	Resolved*	1/13/2020	Status*	Further Review Needed/Comments**	Resolved*	2/26/2020	Status*	Further Review Needed/Comments**	Resolved*	3/25/2020	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	
9	Q - B.2.c.		Ancillary Uses and Facilities	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
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	
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	
16	Q - C.3.g.		Paved Access Roads	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
17	Q - C.3.h.		Surfacing of Access Roads	ongoing	✓	C	NONE		✓	C	NONE		✓	C	I-0		✓	C	NONE		✓	C	NONE		✓	C	I-1	
18	Q - C.5.		Graffiti Removal and Deterrence	ongoing	✓	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-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
20	Q - C.10.d. (1)		Alternative Fuel Vehicles	status																								
21	Q - C.10.d. (2)		Alternative Fuel Refuse Collection Trucks	status																								

\* C = Compliant, NC = Non-Compliant, FRN = Further Review Needed, R = Resolved

\*\* See Appendix I for Comments

Checkmark = Condition or mitigation was monitored

/ = Yearly or non-ongoing monitoring frequency

# Sunshine Canyon Landfill City Mitigation Monitoring Summary

## (01-01-2020 through 03-31-2020)

	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2019												First Quarter 2020											
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22	Q - C.12.a.		Technical Advisory Committee	info	/				/				/				/				/				/			
23	Q - C.12.c.		Contract for Mitigation Monitoring	info	/				/				/				/				/				/			
24	Q - C.12.c.		Contract for Mitigation Monitoring-5 years	info	/				/				/				/				/				/			
25																												
26	T - 4		Fire Plan	status	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
27	T - 5.j.		Trip Diversion	status	✓	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	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
31	M - 4.1.4	11	Post-5.0 Earthquake Analysis	upon event	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
32	M - 4.2.12	27	Heavy Equipment Operations	ongoing	✓	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	
34	M - 4.2.12	28	Site Erosion-Cover	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
35	M - 4.2.12		Site Erosion-Cell Height	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
36	M - 4.2.12		Site Erosion-Sealant	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
37	M - 4.2.13	29	LFG Control Measures	ongoing	/		I-m		/		I-n		/		I-o		/		I-a		/		I-b		/		I-c	
38	M - 4.2.13	30	Operational Odor Control Techniques	ongoing	/		I-m		/		I-n		/		I-o		/		I-a		/		I-b		/		I-c	
39	M - 4.2.13	31	Solid Waste Compaction	ongoing	✓	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-m		/		I-n		/		I-o		/		I-a		/		I-b		/		I-c	
41	M - 4.2.13	33	Odor Control Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	

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42	M - 4.2.13	34	Odor/LFG Monitoring	ongoing	/		I-m		/		I-n		/		I-o		/		I-a		/		I-b		/		I-c	
43			Periodic LFG Monitoring		/		I-m		/		I-n		/		I-o		/		I-a		/		I-b		/		I-c	
44	M - 4.3.2	52	LFG Migration Mitigation	ongoing	/	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	
46	M - 4.4.2	69	Offsite Mitigation Sites	status	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
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	
50	M - 4.7.1	86	Open Space Buffer Area	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
51	M - 4.9.3	106	Litter Minimization	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
52	M - 4.9.3	107	Litter/Debris Containment	ongoing	✓	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	
54	M - 4.9.3	109	Periodic Offsite Litter Pickup	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
55	M - 4.9.3	110	Illegal Dumping Activities	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
56	M - 4.9.3	111	Radio Dispatch Litter Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
57	M - 4.9.3	112	Litter Control	ongoing	✓	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	
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	
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	

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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	
64																												
65	Civil & Geotechnical Engineer																											
66																												
67																												
68	M - 4.1.1	2	Grading Outside of Conceptual Grading Plan Area	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
69	M - 4.1.1	3	Unsuitable Material Removal/Buffer Zones	ongoing																								
70	M - 4.1.1	4	Grading Outside of Landfill Footprint	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
71	M - 4.1.1	5	Grading Activity Compliance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
76	M - 4.1.5	12	Geologic Hazards - Liquefaction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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	
80	M - 4.1.6	16	Cut and Fill Slope Gradients	ongoing	✓	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-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
83	M - 4.3.2	47	Landfill Liner	ongoing																								

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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	
88	M - 4.14.1	155	Access Roadway Grade	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
89	M - 4.18	178	Landfill Elevation Exceedance	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
90																												
91	Hydrologist																											
92																												
93																												
94	M - 4.1.4	11	Earthquake Operations Checklist	upon event	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
95	M - 4.3.1	36	Surface Water Infiltration Minimization	ongoing																								
96	M - 4.3.1	37	Surface Drainage Systems	ongoing	✓	C	I-m		✓	C	I-n		✓	FRN	I-o		✓	C	I-a		✓	C	I-b		✓	FRN	I-c	
97	M - 4.3.1	38	Permanent/Temporary Ditches	ongoing	✓	C	I-m		✓	C	I-n		✓	FRN	I-o		✓	C	I-a		✓	C	I-b		✓	FRN	I-c	
98	M - 4.3.1	39	Drainage Protection	ongoing	✓	C	I-m		✓	C	I-n		✓	FRN	I-o		✓	C	I-a		✓	C	I-b		✓	FRN	I-c	
99	M - 4.3.1	40	SWRCB Permit Coverage	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
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	✓	C	I-m		✓	C	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
103	M - 4.3.1	44	Final Landfill Cover	ongoing																								
104	M - 4.3.1	45	Erosion Control Plan	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
105	M - 4.3.1	46	Preventive Maintenance Program	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	

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106	M - 4.3.2	49	Interception of Groundwater Seepage	ongoing																								
107	M - 4.3.2	50	LCRS/Leachate Monitoring	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
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-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
114	M - 4.2.11	23	Revegetation/Excavation	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
115	M - 4.2.12		Temporary Vegetation Cover	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
116	M - 4.4.1	60	Coastal Sage Scrub Mitigation Plan	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
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-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
126	M - 4.4.3	73	Nonnative Tree Mitigation	status	✓	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	

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128	M - 4.4.3	75	Tree Planting Mitigation Site Prep	ongoing	✓	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	
130	M - 4.4.3	77	Backfill Material	ongoing	✓	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	
132	M - 4.4.3	79	Tree Area Mulching	ongoing	✓	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	
134	M - 4.4.3	81	Irrigation System	ongoing	✓	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-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
136	M - 4.9.2	96	Vector Activity Monitoring	ongoing	✓	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	
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	
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	
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																												

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# Sunshine Canyon Landfill City Mitigation Monitoring Summary

## (01-01-2020 through 03-31-2020)

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150	M - 4.2.11	19	Emissions Mitigation Measures	ongoing	✓	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	
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	
154	M - 4.2.11	22	Grading-Dust Reduction	ongoing	✓	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	
156	M - 4.2.12		Construction Curtailing due to Pollution	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
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	
169																												
170	Hydrology, Hazardous Waste / Risk of Upset																											

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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	
175	M - 4.3.2	59	Underground Fuel Storage	ongoing	/	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-m		✓	FRN	I-n		✓	FRN	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
183	M - 4.9.4	123	Personal Protective Equipment	ongoing																								
184	M - 4.9.4	125	Site Access/Fencing	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
185	M - 4.14.1	147	Fire Response Capabilities	ongoing	✓	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	
192	M - 4.19.1	184	Onsite Archaeologist	ongoing	✓	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	

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194	M - 4.19.1	186	Archaeological Resources	ongoing	/	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	
200	M - 4.19.2	188	Paleontological Resources Excavation	ongoing	/	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	
202	M - 4.19.2	190	Paleontological Resources Recovery	ongoing																								
203	M - 4.19.2	191	Paleontological Resources Inspection	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	

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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
5	Amendment 45.N - 3	45N	Daily Cover Procedure	ongoing	✓	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-m		/		I-n		/		I-o		/		I-a		/		I-b		/		I-c
7	Amendment 45.N - 4.c	45N	Odor Patrol Program	ongoing	/		I-m		/		I-n		/		I-o		/		I-a		/		I-b		/		I-c
8	Amendment 45.N - 4.d	45N	Landfill Gas Mitigation Plan	ongoing	/		I-m		/		I-n		/		I-o		/		I-a		/		I-b		/		I-c
9	Amendment 45.N - 5	45N	Dust and Odor Reports	ongoing	/		I-m		/		I-n		/		I-o		/		I-a		/		I-b		/		I-c
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
15	Revegetation - 44.F	44.F	Revegetation	status	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c
16	Fugitive Dust - 45.B	45.B	Working Face Areas	ongoing	✓	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-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c
18	Fugitive Dust - 45.I	45.I	Cleaning of Roads	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
19	Litter Control - 46.A - .D	46A-D	Litter Control Program	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
20	Gas - 52	52	Landfill Gas Collection System	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c
21	Traffic - 57	57	Traffic Improvements	status	✓	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
23	Traffic - 61	61	Traffic Minimization	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
24	Permittee Fees - 64 - 72	64-72	Permittee Fees	info	/				/				/				/				/				/		

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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	
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	
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-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
47	Groundwater - 3.13		Groundwater-LFG Migration Mitigation	ongoing																								

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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
51	BIOTA – 4.07		Buffer Zone Maintenance-Vegetation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C
52	BIOTA – 4.08		Ridgeline Maintenance-Remain Undisturbed	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C
53	BIOTA – 4.47		Cleaning of Equipment	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C
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
56	BIOTA – 4.50		Vector Activity Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C
57	Air Quality - 6.03		Dust Emission Minimization	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	C
58	Air Quality - 6.04		Usage of Cut Material for Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C
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
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																						

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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
73	Odor/Landfill Gas – 7.02		Landfill Gas Collection System	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
74	Odor/Landfill Gas – 7.04		Gas Collection/Flare System Risk Mitigation	ongoing																							
75	Odor/Landfill Gas – 7.05		Wellhead Awareness	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
76	Odor/Landfill Gas – 7.06		Odor Control Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
77	Odor/Landfill Gas – 7.07		Gas Recovery and Sale	status	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c
78	Traffic/Circulation – 8.03		Street Light Installation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
79	Traffic/Circulation – 8.04		Truck Traffic Minimization	status																							
80	Traffic/Circulation – 8.08		Tipping Fees for Partial Loads/Peak Hours	status																							
81	Traffic/Circulation – 8.10		Nighttime Landfill Operations Feasibility	status	/				/				/				/				/				/		
82	Traffic/Circulation – 8.11		Parking Management along San Fernando Road	status	/				/				/				/				/				/		
83	Traffic/Circulation – 8.13		Adequate Queuing	status																							
84	Visual – 10.03		Landfill Flare Locations	status	/				/				/				/				/				/		
85	Visual – 10.04		Confinement of Excavation Cover Material	status																							
86	Visual – 10.05		Lighting Requirements	status																							
87	Visual – 10.11		Litter Control Program	ongoing	✓	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
89	Visual – 10.11		Debris Removal at Entrance	ongoing	✓	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
91	Visual – 10.11		Periodic Litter Pickup	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
92	Visual – 10.11		Litter Control-Additional Measures	ongoing																							
93	Visual – 10.12		Discharge Control/Litter Recovery	status																							

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## (01-01-2020 through 03-31-2020)

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94	Water Conserv. - 11.01		Water Conservation	ongoing	✓	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	
96	Recycling - 14.03		Tonnage Disposal Determination	info	/				/				/				/				/				/			
97	Recycling - 14.04		Recycling-Variou Tasks	info	/				/				/				/				/				/			
98			Clean Dirt Procedures																									
99	Site - 15.11		Reclaimed Water Utilization	status	/				/				/				/				/				/			
100	Site - 15.12		Water Conservation Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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	
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	
127																												
128	Geology - 1.01		Survey Monument Locations	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
129	Geology - 1.02		Seismic Design	ongoing																								
130	Geology - 1.03		Maximum Refuse Slope Gradients	ongoing																								
131	Geology - 1.04		Maximum Refuse Slope Gradients	ongoing																								
132	Geology - 1.05		Unsuitable Material Procedures	ongoing																								
133	Geology - 1.06		Grading Activities Procedures	ongoing																								
134	Geology - 1.07		Grading Activities Procedures	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	

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135	Geology - 1.09		Outer Perimeter Ridgeline Requirements	info																							
136	Geology - 1.12		Soil Stabilization	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c
137	Geology - 1.16		Checklists/Surveys Following Earthquake	upon event	✓	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
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-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c
148	Visual – 10.02		Final Fill Elevations	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c
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-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c

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159	Surface Water - 2-04		Sedimentation Basin Capabilities	ongoing																							
160	Surface Water - 2.05		Underdrain Placement	ongoing																							
161	Surface Water - 2.07		Drainage Control System Design Approval	ongoing																							
162	Surface Water - 2.08		Surface Water Runoff-Drainage System	ongoing																							
163	Surface Water - 2.10		Surface Water Collection System-Monitoring	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c
164	Surface Water - 2.11		Surface Water Quality-Collection/Monitoring	ongoing																							
165	Surface Water - 2.12		Permanent/Temporary Drainage Facilities	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c
166	Surface Water - 2.13		Permanent/Temporary Drainage Facilities	ongoing																							
167	Surface Water - 2.14		Erosion Control Plan	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c
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-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c
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-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c
181	Geology - 1.14		Personnel Retention for Monitoring Soil Erosion	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c
182	Groundwater - 3.11		Irrigation/Revegetation Management-Personnel Retention	ongoing																							
183	BIOTA – 4.10		Oak Tree Permit	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c

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184	BIOTA – 4.11		Oak Tree Mitigation Plan	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
185	BIOTA – 4.13		Oak Tree Mitigation Counting	ongoing	✓	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	
187	BIOTA – 4.24		Drip Irrigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
188	BIOTA – 4.27		Coastal Sage Scrub Mitigation Plan	ongoing	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
189	BIOTA – 4.28		Coastal Sage Scrub Seeding	ongoing																								
190	BIOTA – 4.29		San Diego Horned Lizard Mitigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
191	BIOTA – 4.30		California Gnatcatcher Surveys	ongoing	✓	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	
193	BIOTA – 4.32		Western Burrowing Owl Surveys	ongoing	✓	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	
195	BIOTA – 4.34		Raptor Nests Habitat	ongoing	✓	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-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
202	BIOTA – 4.43		Replacement Riparian Habitat	status	✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
203	Air Quality - 6.02		Dust Control	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
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-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
207	Visual – 10.08		Solid Waste Disposal Procedures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	

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208	Visual – 10.08		Final Cut Slope Steepness	ongoing	✓	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	
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	
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	
215																												
216	Air Quality & Noise Specialist																											
217																												
218																												
219	Fugitive Dust - 45.F	45.F	Fugitive Dust Monitoring	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
220	Fugitive Dust - 45.I	45.I	Paved Roads-Cleaning	ongoing	✓	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	
226	Air Quality – 6.01		Working Face Requirements	ongoing	✓	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	
228	Air Quality – 6.01		Soil Stockpile Requirements	ongoing	✓	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	
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	

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232	Air Quality – 6.01		Access Roads-Paving	ongoing	✓	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	
234	Air Quality – 6.01		Water Tanks/Piping Maintenance	ongoing	✓	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	
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	
244	Admin Rpts/ Pgms-17.16		Air Quality Monitoring-Corrective Action Plan	ongoing	/				/				/				/				/				/			
246																												
247	Hydrology, Hazardous Waste / Risk of Upset																											
248																												
249																												
250	IMP - Part IV.E	IMP4	Load Inspection-Random Manual	ongoing																								
251																												
252	Groundwater - 3.05		Leachate Collection and Removal System	ongoing																								
253	Groundwater - 3.15		Underground Diesel Fuel Storage Tanks	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
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	
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	
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	

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## (01-01-2020 through 03-31-2020)

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2019								First Quarter 2020															
					10/29/2019	Status*	Further Review Needed/Comments**	Resolved*	11/19/2019	Status*	Further Review Needed/Comments**	Resolved*	12/11/2019	Status*	Further Review Needed/Comments**	Resolved*	1/13/2020	Status*	Further Review Needed/Comments**	Resolved*	2/26/2020	Status*	Further Review Needed/Comments**	Resolved*	3/25/2020	Status*	Further Review Needed/Comments**	Resolved*
257	Fire Service - 12.05		Building Limits	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
258	Fire Service - 12.06		Methane Gas Monitoring-On-site Structures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
259	Hazardous Materials – 13.02		Waste Load Checking Program	ongoing																								
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-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
276	IMP - Part VII.B	IMP7	Archaeological/Paleontological Report Submission	ongoing	/	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	
278	Archaeological – 5.02		Onsite Archaeologist	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
279	Archaeological – 5.03		Onsite Paleontologist	ongoing	✓	C	I-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
280	Archaeological – 5.04		Archaeological/Paleontological Identification Instruction	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	

\* C = Compliant, NC = Non-Compliant, FRN = Further Review Needed, R = Resolved

\*\* See Appendix I for Comments

Checkmark = Condition or mitigation was monitored

/ = Yearly or non-ongoing monitoring frequency



# Sunshine Canyon Landfill County Mitigation Monitoring Summary

## (01-01-2020 through 03-31-2020)

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2019								First Quarter 2020															
					10/29/2019	Status*	Further Review Needed/Comments**	Resolved*	11/19/2019	Status*	Further Review Needed/Comments**	Resolved*	12/11/2019	Status*	Further Review Needed/Comments**	Resolved*	1/13/2020	Status*	Further Review Needed/Comments**	Resolved*	2/26/2020	Status*	Further Review Needed/Comments**	Resolved*	3/25/2020	Status*	Further Review Needed/Comments**	Resolved*
281	Archaeological – 5.05		Archaeological Resource Curation	ongoing	/	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-m		✓	C	I-n		✓	C	I-o		✓	C	I-a		✓	C	I-b		✓	C	I-c	
287	IMP - Part VII.B	IMP7	Archaeological/Paleontological-Report Submission	ongoing																								

\* C = Compliant, NC = Non-Compliant, FRN = Further Review Needed, R = Resolved

\*\* See Appendix I for Comments

Checkmark = Condition or mitigation was monitored

/ = Yearly or non-ongoing monitoring frequency

## **Appendix I**

### **Further Review Needed Comments: Reference I-a through I-c First Quarter 2020 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-a through I-c: There was no grading outside of the approved landfill development limits during the 1st Quarter except for grading of an access road to repair powerlines that were hit by an airplane on March 13, 2020. This grading was done on the Sunshine Canyon's north and west ridgelines. Cells CC-4 Part 3 and CC-4 Part 1/2 were accepting waste. CC-4 Part 1/2 will finish filling current areas in April, and CC-4 Part 3 will then be the only active area.
		Geology - 1.07	County DPW EPD/SCL-LEA	I-a through I-c: See Q – B.2.c above.
		Geology - 1.12	County DPW EPD/SCL-LEA	I-a through I-c: See Q – B.2.c above.
	Q - C.3.h		City Planning	I-a and I-b: In January, there were dust clouds coming from equipment moving on the County top deck near the soil stockpile area. The frequency of the water trucks was not adequate. In February, there were large dust clouds coming from the main access leading to and on the Cell CC-4 Part 1-2 working area.
	Q - C.10.c		City Planning	<p>I-a: The gas-to-energy plant usage was not recorded. Flare 1: 2380 SCFM of recovered landfill gas, 35% CH<sub>4</sub>, 1.6% O<sub>2</sub>, 100 ppm H<sub>2</sub>S; Flare 3: not accessible; Flare 9: 2475 SCFM; Flare 10: 2475 SCFM; Flare 11: 2295. The total volume of landfill gas being flared was 9625 SCFM. The quality of the gas recovered was 45% CH<sub>4</sub>, 1.2% O<sub>2</sub> and 100 ppm H<sub>2</sub>S.</p> <p>I-b: The gas-to-energy plant was using 6488 SCFM of recovered landfill gas, 46% CH<sub>4</sub>, 1.0% O<sub>2</sub>, 100 ppm H<sub>2</sub>S. The plant was being shutdown for a main gas header tie-in. Flare 1: 2308 SCFM, 33% CH<sub>4</sub>, 1.6% O<sub>2</sub>, 100 ppm H<sub>2</sub>S; Flare 3: 1974 SCFM; Flare 9: 2792 SCFM; Flare 10: 2801 SCFM; Flare 11: 2381 SCFM. The total volume of landfill gas being recovered was 18,744 SCFM.</p> <p>I-a and I-b: The quantity of landfill gas being recovered during the 1st Quarter has a daily average of 18,744 SCFM, with the gas-to-energy plant usage averaging 6488 SCFM. The plant volume was not recorded in January, and in February it was being shutdown for a main gas header tie-in.</p>
		Odor/Landfill Gas - 7.07	County Planning/SCAQMD SCL-LEA	I-a and I-b: See Q - C.10.c above.
		Gas - 52	County DPW EPD/SCL-LEA County Forester Fire Warden	I-a and I-b: See Q - C.10.c above.
	T-4		City Planning, City Fire Department	I-a through I-c: An updated fire plan showing the new locations of all facilities, and normal and emergency ingress and egress should be prepared and sent to the local City fire department station and the 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. Key management personnel contacts should be provided to the City Fire Department.
		Fire Service - 12.03	County DPW EPD/SCL-LEA County Forester Fire Warden	I-a through I-c: See T-4 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	M - 4.1.1 / 7		City Planning, DOGGR	I-a through I-c: 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-a through I-c: See M - 4.1.1 / 7 above.
	M - 4.1.4 / 11	Post-5.0 Earthquake Analysis	City Planning	There were no earthquakes of 5.0 or greater during this monitoring period.
	M - 4.2.12 / 26 and 28		City Planning/SCAQMD	I-a through I-c: During the 1st 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 on the south-facing slopes, and controlled and eliminated dust and erosion. Other areas of the landfill were also hydroseeded. These and the other areas affected by the Saddleridge fire that were hydroseeded had germinated and were growing. The soil stockpiled on the County top deck was being used for daily cover.
		Fugitive Dust - 45.F	County DPH/County LEA County DPW-EPD County Biologist	I-a through I-c: See M - 4.2.12 / 28 above.
	M -4.2.13/ 29, 30, 32, 33, and 34		City Planning/SCL-LEA/SCAQMD	I-a through I-c: 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-a through I-c: See M -4.2.13/ 29, 30, 32, 34 above.
		Amendment 45.N-5	County DPW-EPD	I-a through I-c: See M -4.2.13/ 29, 30, 32, 34 above.
	M - 4.2.13 / 33		City Planning/SCAQMD	I-a: The monitor drove the Granada Hills neighborhood area from 6:30 to 7:10 a.m., and there were no landfill odors detected. Landfill gas odors were detected on the Cell CC-3A top deck in the morning. SCS had construction activity occurring on the gas collection system. The new blower skid's north blower at Flare 9, 10 and 11 had gas odors coming from the output flange. Republic stated that they received 16 odor complaints in December.  I-b: The monitor drove the Granada Hills neighborhood areas from 6:15 to 7:00 a.m., and there were no landfill odors detected. No odors were detected at the site. A new main gas collection pipeline was installed north of the new scale location with a branch main collector to the west to enhance gas collection from the CC-3A top deck.  I-a and I-b: The use of Closure Turf to seal fill areas and function as intermediate cover provided enhanced gas recovery and gas-related odor control. There were no gas or liquids odors detected coming from the Closure Turf areas. No areas of the Closure Turf were impacted by the fire.
	M - 4.2.13 / 34		City Planning/SCAQMD	I-a through I-c: See M-4.2.13/29, 30, and 32 above.
		Odor/Landfill Gas - 7.06	County DPW-EPD/SCL-LEA/SCAQMD	I-a and I-b: See M-4.2.13/33 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Project Manager</b>		Amendment 45.N - 4.a, 4.c, 4.d	County DPW-EPD	I-a and I-b: See M-4.2.13/29, 30, 32, and 34 above.
		Amendment 45.N - 5	County DPW-EPD	I-a and I-b: See M-4.2.13/29, 30, 32, and 34 above.
		Surface Water - 2.15	County DPW EPD/ LARWQCB, SCL- LEA	<p>I-a through I-c: 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>In January and February, it was observed that the Basin B high flow outlet had vegetation growing out of numerous cracks in the concrete. In the same period, the terminal basin had vegetation growing out of cracks to the interior and exterior concrete side walls and top access walkway.</p>
	M - 4.4.2/ 69		City Planning	I-a through I-c: The City is proceeding with writing and adopting 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 there has been no progress in finalizing and adopting the ordinance. Time extension letters from the US Corps of Engineers and the California Department of Fish and Wildlife were in place for 2019. New extension letters for 2020 have not been received.
		Biota - 4.4.3	CDFW	I-a and I-b: See M - 4.4.2 / 69 above.
	M - 4.9.3 / 110		City Planning/City LEA	<p>I-a: In January, the monitor drove Sierra Highway and observed bags of trash and a dumped mattress near the I-14 overpass.</p> <p>I-b: In February trash and debris were observed on the Sierra Highway roadway shoulder north of the I-14 overpass.</p> <p>I-a and I-b: All other maintained areas were free of illegally dumped trash and debris in January and February.</p>
<b>Civil and Geotechnical Engineer</b>	M - 4.1.1 / 2		City Building and Safety City Planning	I-a through I-c: 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-a through I-c: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 5		City Planning/ LARWQCB Cal Recycle	I-a through I-c: The only out-of-approved landfill footprint grading occurring in the 1st Quarter was related to grading of an access road on the north and west ridgelines to repair powerlines that were hit by an airplane on March 13. The only other grading occurring was for additional filling areas for CC-4 Part 1/2, 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-a through I-c: See M - 4.1.1 / 5 above.
	M - 4.1.5 / 12		City Planning/LARWQCB Cal Recycle	I-a through I-c: See M - 4.1.1 / 5 above.
	M - 4.1.6 / 18			I-a through I-c: 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.
	M - 4.14.1 / 155		City Planning/Cal Recycle PW-BOE LADBS City LEA	I-a through I-c: Access roads were being maintained around the working area for emergency access.
	M - 4.18 / 178		City Planning/City LEA	I-a through I-c: A map showing areas that are at the final elevations and which should have final cover should be available for review. Documents showing current filled elevations should also be available onsite for review. These conditions were not monitored.
		Visual - 10.01 Visual - 10.02	County DPW EPD/ LARWQCB SCL-LEA	I-a through I-c: See M - 4.18 / 178 above.
<b>Hydrologist</b>	M - 4.3.1/ 37, 38		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	I-a through I-c: 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. Straw wattles were placed on the CC-4 Part 1/2 western and southern facing slopes. Other areas had jute netting or were hydroseeded. Erosion protection systems were in place.  Some gullies and ruts were observed on the slopes above the CC-4 Part 3 basin to the east of Basin A in the soil stockpile area. In January, we investigated a large crevice on the eastern exterior slope of Sunshine Canyon (on the Caltrans jurisdiction side) just north of the Adler condensate tank farm. It appeared that the crevice was caused by years of uncontrolled erosion, and had become visible because of the fire that burned through the vegetation. In March, Caltrans repaired the slope.
		Surface Water - 2.03 Surface Water - 2.12	County DPW EPD/ LARWQCB SCL-LEA	I-a through I-c: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 39		City Planning/LARWQCB Cal Recycle	I-a through I-b: See M - 4.3.1/ 37, 38 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Hydrologist</b>	M - 4.3.1 / 40		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-a through I-c: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 43		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	<p>I-a: In January, Basin A had approximately 80% of the floor covered with standing water. A minimal amount of water was observed being discharged into the westside channel. Basin B was free of water, with the floor areas covered with dry and moist sediment. Litter was observed in the back eastern area. Vegetation was growing in cracks in the high-flow spillway. The terminal basin had standing water at the outlet risers with a significant amount of debris floating on the water. Over half of the basin's floor was covered with a significant amount of sediment. The outlet had some sediment and windblown litter was present.</p> <p>I-b: In February, Basin A was dry. Hillside and basin windblown litter was removed. Minimal sediment was in the basin. Basin B had no standing water. There was minimal sediment with most of it dry except for the back eastern area. Vegetation is growing in the concrete cracks of the high-level spillway. The terminal basin had standing water at the outlet risers with a significant amount of debris floating on the water. Over half of the basin's floor was covered with a significant amount of sediment. The CC-4 Part 3 basin had standing water, sediment and debris.</p> <p>I-c: In March, the basins were performing as designed. Late rain events caused water and sediment to be retained.</p>
		Surface Water - 2.10	LARWQCB / County DPW EPD	I-a through I-c: See M - 4.3.1/ 37, 38 and 43 above.
		Surface Water - 2.14	LARWQCB / County DPW EPD	I-a through I-c: 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-a through I-c: See 2.15 above.
<b>Biologist</b>	M - 4.3.2 / 50		City Planning/ LARWQCB CalRecycle SCL-LEA	I-a through I-c: 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 detected at the tank farm or the sewer connection. Tank farm liquids were being treated with hydrogen peroxide.
	M - 4.1.1 / 6		City Planning/ LARWQCB CalRecycle SCL-LEA LADBS	I-a through I-c: See M - 4.2.12 / 28 above.
		Geology - 1.14	LARWQCB/ County Forester	I-a through I-c: See M - 4.2.12 / 28 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Biologist	M - 4.2.11 / 23		City Planning	I-a through I-c: See M - 4.2.12 / 28 above.
		Geology - 1.13	County DPW EPD/ County Forester LARWQCB	I-a through I-c: See M - 4.2.12 / 28 above.
	M - 4.2.12		SCL-LEA/ City Planning	I-a through I-c: See M - 4.2.12 / 28 above.
		Revegetation - 44.A	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-a through I-c: See M - 4.2.12 / 28 above.
		Revegetation - 44.F	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-a through I-c: See M - 4.2.12 / 28 above.
		Biota - 4.42	SCL-LEA	I-a through I-c: See M - 4.2.12 / 28 above.
		Air Quality - 6.02	SCAQMD/ SCL-LEA	I-a through I-c: See M - 4.2.12 / 28 above.
		Visual - 10.08	County Forester	I-a through I-c: See M - 4.2.12 / 28 above.
	M - 4.4.1 / 60		City Planning	<p>I-a: In January, sage mitigation areas Decks A, B and C were recovering from the Saddleridge Fire. JMA advised Republic to let them recover and just remove non-natives. The County sage mitigation area slopes did not get burned and were greening up. The Big Cone Fir mitigation tree area was observed. The fire impacted this area. A biological evaluation and count of trees lost should be performed.</p> <p>I-b: City Deck B native plants were slowly recovering from the fire, and the gas recovery system's piping replacement was complete. City Deck C native plants were slowly recovering from fire impacts. The County sage mitigation area slopes were greening up. Native vegetation is doing well in select areas. The area with prior erosion rills had some native vegetation growing.</p> <p>I-c: In March, non-native vegetation was being removed on Decks B and C.</p>
		Biota - 4.27	County LEA/CDFW	I-a through I-c: See M - 4.4.1 / 60 above.
		Biota - 4.10	County LEA/CDFW	I-a through I-c: An updated mitigation tree report evaluating the impacts of the Saddleridge Fire will be prepared and show any mitigation planting required.
	M - 4.4.3 / 72		City Planning	I-a through I-c: See Biota - 4.10 above.
	M - 4.9.4 / 121		City Planning/Cal Recycle Cal OSHA LAFD City LEA	I-a through I-c: See T-4 above.

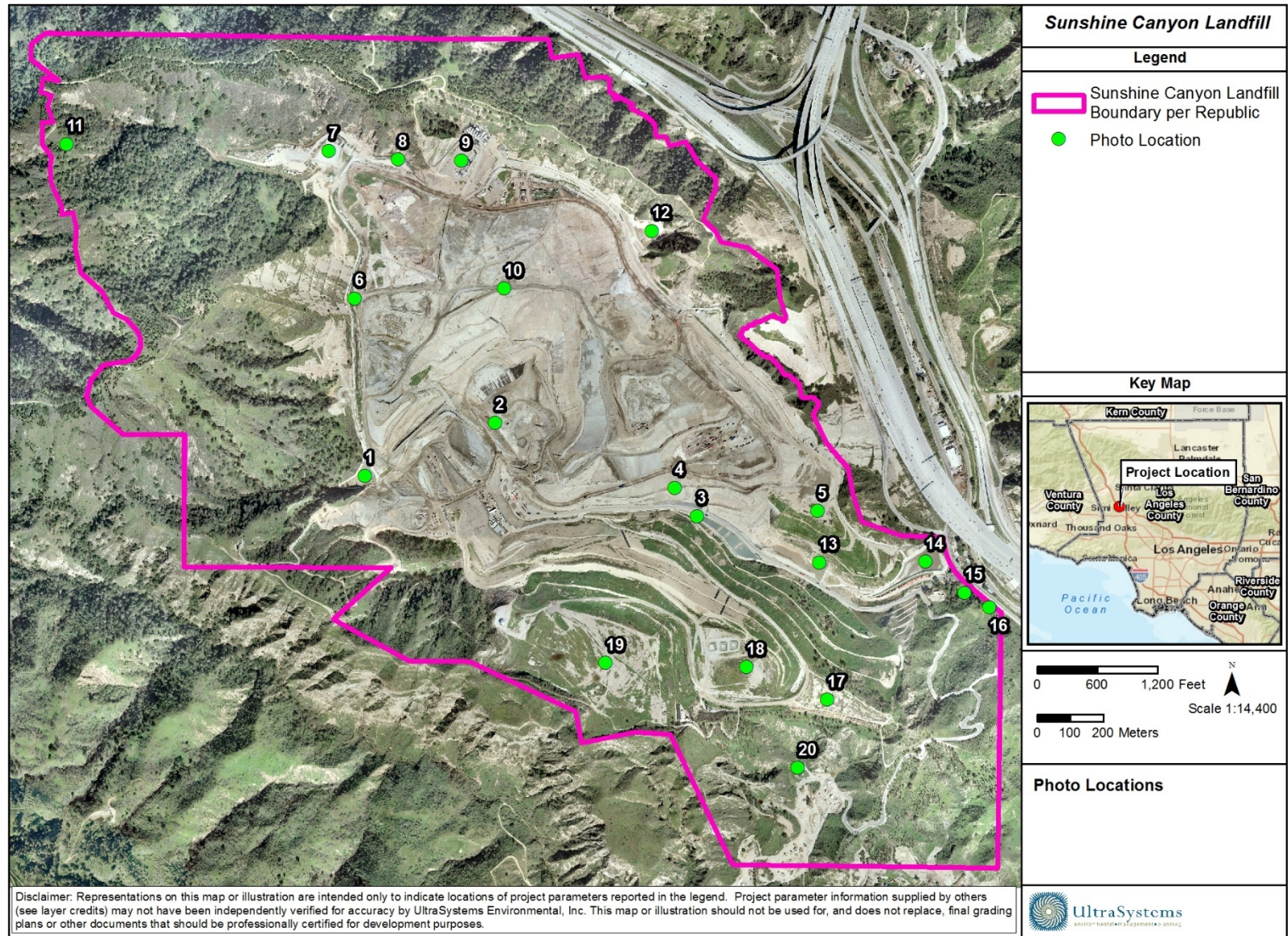


Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Biologist</b>	M-4.9.4/ 125		City Planning/ CalRecycle Cal OSHA SCL-LEA	I-a through I-c: During the 1st Quarter of 2020, the south oil field gate and north perimeter gate were observed to be locked.
<b>Paleontologist</b>	M-4.19.2/ 191		City Planning	I-a through I-c: During the 1st Quarter, there was no grading in native undisturbed areas that required paleontological monitoring.
		Ecological Significance 62	County Planning	I-a through I-c: 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 – 13
2	Working Areas, CC4 Part 1, Part 2 and Part 3	14 – 96
3	Closure Turf	97 – 113
4	CC-3A and CC-3B	114 – 121
5	Old City North and South	122 – 133
6	County Sage Mitigation and Westside Drainage Channel	134 – 140
7 & 8	Basin D, Basin D Outlet Channel	–
9	Flares 9, 10, 11 and Gas-to-Energy Facility	141 – 145
10	County Top Deck	146 – 172
11	Big Cone Fir Mitigation	173 – 206
12	Basin B	207 – 232
13	Eastside Drainage Channel and Terminal Basin Inlets	233 – 237
14	Terminal Basin	238 – 264
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	265 – 293
20	Southern Ownership Buffer	–
–	General Site	294 – 313





**Photo 1: Basin A: January 13, 2020**



**Photo 2: Basin A: January 13, 2020**



**Photo 3: Basin A: January 13, 2020**



**Photo 4: Basin A: January 13, 2020**





**Photo 5: Basin A: January 13, 2020**



**Photo 6: Basin A Outlet: January 13, 2020**



**Photo 7: Basin A Outlet: January 13, 2020**



**Photo 8: Basin A Outlet: January 13, 2020**





**Photo 9: Basin A Outlet: January 13, 2020**



**Photo 10: Basin A: February 26, 2020**



**Photo 11: Basin A: February 26, 2020**



**Photo 12: Basin A Outlet Westside Drainage Channel:  
February 26, 2020**

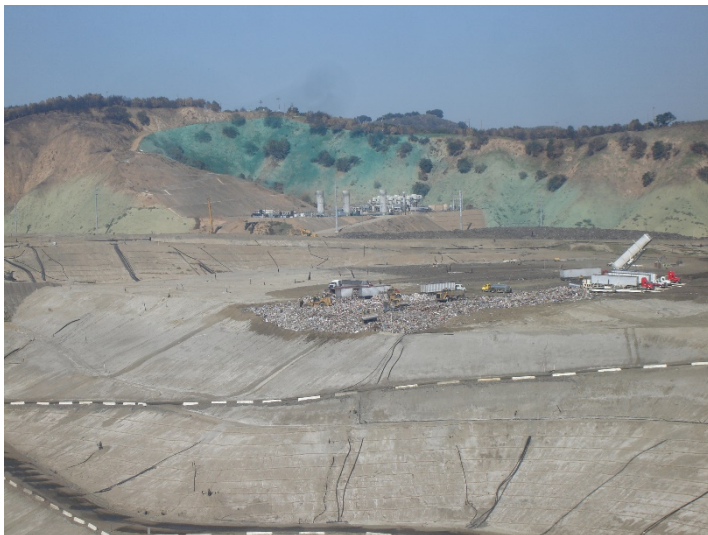




**Photo 13: Basin A Outlet Westside Drainage Channel:  
February 26, 2020**



**Photo 14: Working Areas, CC4 Part 1&2 January 13, 2020**



**Photo 15: Working Areas, CC4 Part 1&2 January 13, 2020**



**Photo 16: Working Areas, CC4 Part 1&2: January 13, 2020**





**Photo 17: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 18: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 19: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 20: Working Areas, CC4 Part 1&2: January 13, 2020**





**Photo 21: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 22: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 23: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 24: Working Areas, CC4 Part 1&2: January 13, 2020**





**Photo 25: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 26: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 27: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 28: Working Areas, CC4 Part 1&2: January 13, 2020**





**Photo 29: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 30: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 31: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 32: Working Areas, CC4 Part 1&2: January 13, 2020**





**Photo 33: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 34: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 35: Working Areas, CC4 Part 1&2: January 13, 2020**



**Photo 36: Working Areas, CC4 Part 3: January 13, 2020**

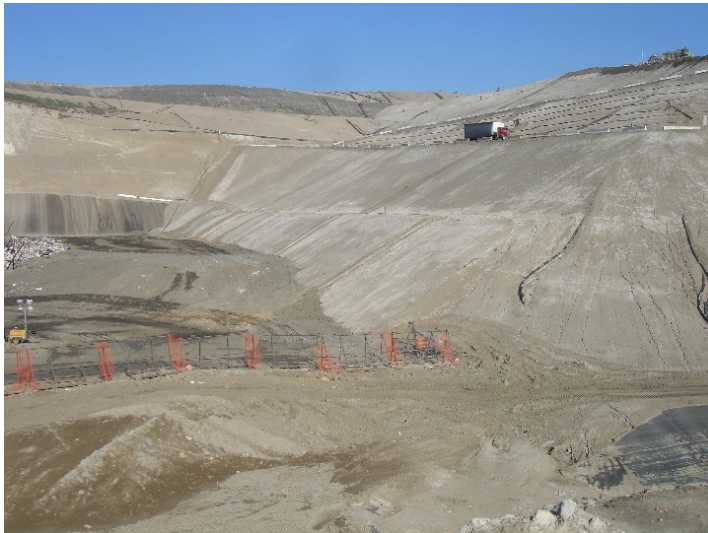




**Photo 37: Working Areas, CC4 Part 3: January 13, 2020**



**Photo 38: Working Areas, CC4 Part 3: January 13, 2020**

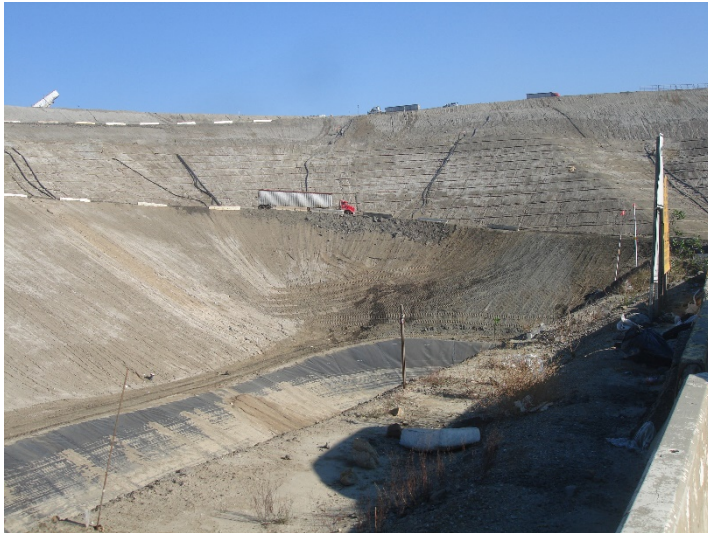


**Photo 39: Working Areas, CC4 Part 3: January 13, 2020**



**Photo 40: Working Areas, CC4 Part 3: January 13, 2020**





**Photo 41: Working Areas, CC4 Part 3: January 13, 2020**



**Photo 42: Working Areas, CC4 Part 3: January 13, 2020**

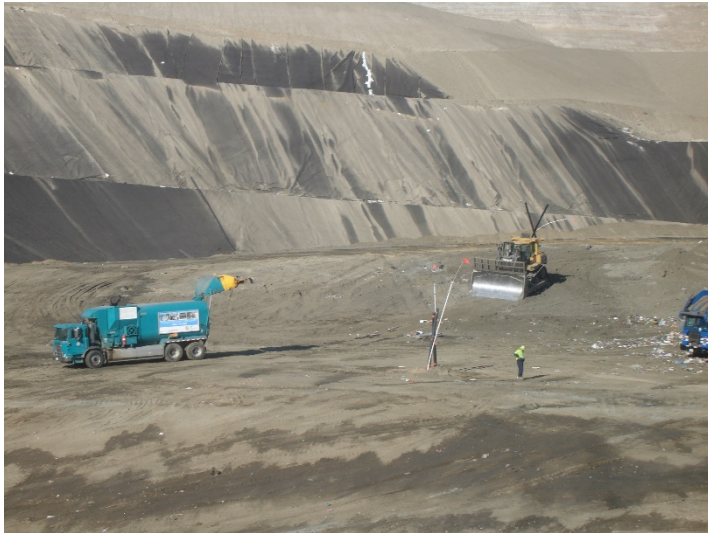


**Photo 43: Working Areas, CC4 Part 3: January 13, 2020**



**Photo 44: Working Areas, CC4 Part 3: January 13, 2020**





**Photo 45: Working Areas, CC4 Part 3: January 13, 2020**



**Photo 46: Working Areas, CC4 Part 3: January 13, 2020**



**Photo 47: Working Areas, CC4 Part 3: January 13, 2020**

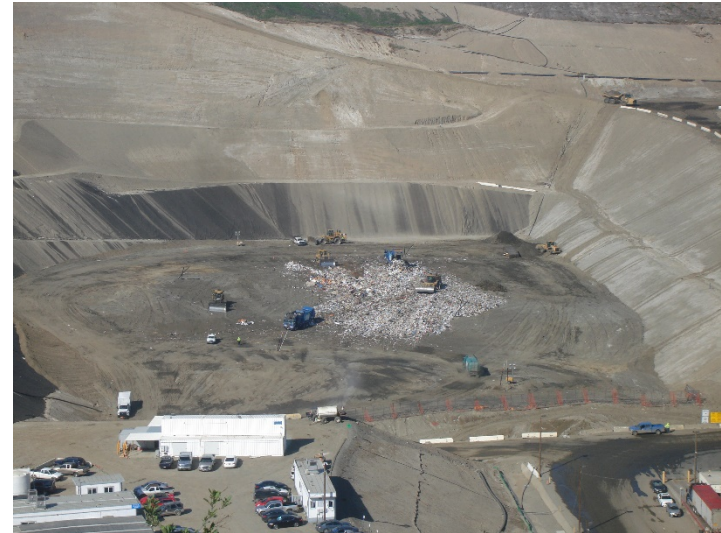


**Photo 48: Working Areas, CC4 Part 3: January 13, 2020**





**Photo 49: Working Areas, CC4 Part 3: January 13, 2020**



**Photo 50: Working Areas, CC4 Part 3: January 13, 2020**



**Photo 51: Working Areas, CC4 Part 3: January 13, 2020**



**Photo 52: Working Areas, CC4 Part 1&2: February 26, 2020**





**Photo 53: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 54: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 55: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 56: Working Areas, CC4 Part 1&2: February 26, 2020**





**Photo 57: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 58: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 59: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 60: Working Areas, CC4 Part 1&2: February 26, 2020**





**Photo 61: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 62: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 63: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 64: Working Areas, CC4 Part 1&2: February 26, 2020**





**Photo 65: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 66: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 67: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 68: Working Areas, CC4 Part 1&2: February 26, 2020**





**Photo 69: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 70: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 71: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 72: Working Areas, CC4 Part 1&2: February 26, 2020**





**Photo 73: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 74: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 75: Working Areas, CC4 Part 1&2: February 26, 2020**



**Photo 76: Working Area CC-4 Part 3: February 26, 2020**





**Photo 77: Working Area CC-4 Part 3: February 26, 2020**



**Photo 79: Working Area CC-4 Part 3: February 26, 2020**



**Photo 78: Working Area CC-4 Part 3: February 26, 2020**



**Photo 80: Working Area CC-4 Part 3: February 26, 2020**





**Photo 81: Working Area CC-4 Part 3: February 26, 2020**



**Photo 82: Working Area CC-4 Part 3: February 26, 2020**



**Photo 83: Working Area CC-4 Part 3: February 26, 2020**



**Photo 84: Working Area CC-4 Part 3: February 26, 2020**





**Photo 85: Working Area CC-4 Part 3: February 26, 2020**



**Photo 86: Working Area CC-4 Part 3: February 26, 2020**



**Photo 87: Working Area CC-4 Part 3: February 26, 2020**



**Photo 88: Working Area CC-4 Part 3: February 26, 2020**





**Photo 89: Working Area CC-4 Part 3: February 26, 2020**



**Photo 90: Working Area CC-4 Part 3: February 26, 2020**



**Photo 91: Working Area CC-4 Part 3: February 26, 2020**



**Photo 92: Working Area CC-4 Part 3: February 26, 2020**





**Photo 93: Working Area CC-4 Part 3: February 26, 2020**



**Photo 94: Working Area CC-4 Part 3: February 26, 2020**



**Photo 95: Working Area CC-4 Part 3: February 26, 2020**



**Photo 96: Working Area CC-4 Part 3: February 26, 2020**





**Photo 97: Closure Turf: January 13, 2020**



**Photo 98: Closure Turf: January 13, 2020**



**Photo 99: Closure Turf: January 13, 2020**



**Photo 100: Closure Turf: January 13, 2020**





**Photo 101: Closure Turf: January 13, 2020**



**Photo 102: Closure Turf: January 13, 2020**



**Photo 103: Closure Turf: February 26, 2020**



**Photo 104: Closure Turf: February 26, 2020**





**Photo 105: Closure Turf: February 26, 2020**



**Photo 106: Closure Turf: February 26, 2020**



**Photo 107: Closure Turf: February 26, 2020**



**Photo 108: Closure Turf: February 26, 2020**





**Photo 109: Closure Turf: February 26, 2020**



**Photo 110: Closure Turf: February 26, 2020**



**Photo 111: Closure Turf: February 26, 2020**



**Photo 112: Closure Turf: February 26, 2020**





**Photo 113: Closure Turf: February 26, 2020**



**Photo 114: CC3B Top Deck: January 13, 2020**



**Photo 115: CC3B Top Deck: January 13, 2020**



**Photo 116: CC3B Top Deck: January 13, 2020**





**Photo 117: CC3B Top Deck: January 13, 2020**



**Photo 118: CC3B Top Deck: January 13, 2020**



**Photo 119: CC3B Top Deck: January 13, 2020**



**Photo 120: CC3B Upper Deck: January 13, 2020**





**Photo 121: CC3B Upper Deck: January 13, 2020**



**Photo 122: Old City South: January 13, 2020**



**Photo 123: Old City South: January 13, 2020**



**Photo 124: Old City South: January 13, 2020**





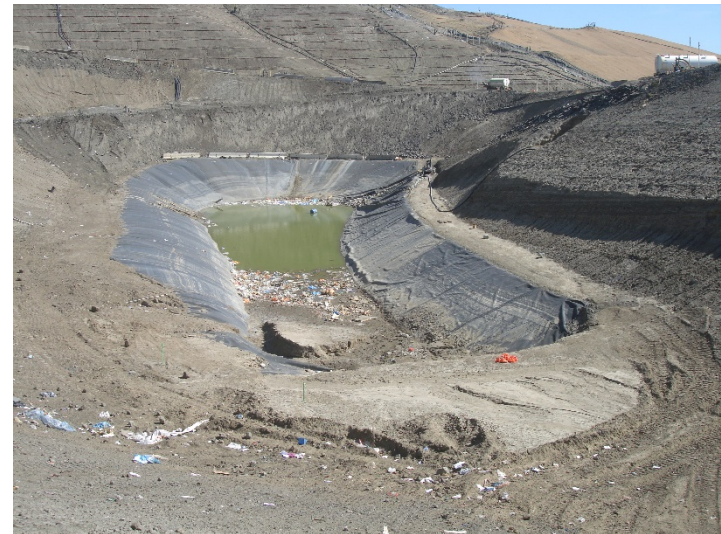
**Photo 125: Old City South: January 13, 2020**



**Photo 126: Old City South: January 13, 2020**



**Photo 127: Old City South: January 13, 2020**



**Photo 128: Old City South: February 26, 2020**





**Photo 129: Old City South Stockpiled Soil Slump:  
February 26, 2020**



**Photo 130: New City Top Deck Scales: February 26, 2020**



**Photo 131: New City Top Deck Scales: February 26, 2020**



**Photo 132: New City Top Deck Scales: February 26, 2020**





**Photo 133: New City Top Deck Scales: February 26, 2020**



**Photo 134: County Sage Mitigation Area Slope: January 13, 2020**



**Photo 135: County Sage Mitigation Area Slope: January 13, 2020**



**Photo 136: County Sage Mitigation Area Slope: January 13, 2020**





**Photo 137: County Sage Mitigation Area Slope: February 26, 2020**



**Photo 138: County Sage Mitigation Area Slope: February 26, 2020**



**Photo 139: County Sage Mitigation Area Slope: February 26, 2020**



**Photo 140: Westside Drainage Channel Near Ridgeline Powerline:  
February 26, 2020**





**Photo 141: Flare I Area Hillsides Fire Impacts: February 26, 2020**



**Photo 142: Flare I Area Hillsides Fire Impacts: February 26, 2020**



**Photo 143: Flare I Area Hillsides Fire Impacts: February 26, 2020**



**Photo 144: Flare I Area Hillsides Fire Impacts: February 26, 2020**





**Photo 145: Flare I Area Hillsides Fire Impacts: February 26, 2020**



**Photo 146: County Top Deck: January 13, 2020**



**Photo 147: County Top Deck: January 13, 2020**



**Photo 148: County Top Deck: January 13, 2020**





**Photo 149: County Top Deck: January 13, 2020**



**Photo 150: County Top Deck: January 13, 2020**



**Photo 151: County Top Deck: January 13, 2020**



**Photo 152: County Top Deck: January 13, 2020**





**Photo 153: County Top Deck: January 13, 2020**



**Photo 154: County Top Deck: January 13, 2020**



**Photo 155: County Top Deck: February 26, 2020**



**Photo 156: County Top Deck: February 26, 2020**





**Photo 157: County Top Deck: February 26, 2020**



**Photo 158: County Top Deck: February 26, 2020**



**Photo 159: County Top Deck: February 26, 2020**



**Photo 160: County Top Deck: February 26, 2020**





**Photo 161: County Top Deck: February 26, 2020**



**Photo 162: County Top Deck: February 26, 2020**



**Photo 163: County Top Deck: February 26, 2020**



**Photo 164: County Top Deck: February 26, 2020**





**Photo 165: County Bowl Area: January 13, 2020**



**Photo 166: County Bowl Area: January 13, 2020**



**Photo 167: County Bowl Area: January 13, 2020**



**Photo 168: County Bowl Area: January 13, 2020**





**Photo 169: County Bowl Area: January 13, 2020**



**Photo 170: County Bowl Area: January 13, 2020**



**Photo 171: County Bowl Area: January 13, 2020**



**Photo 172: County Bowl Area: January 13, 2020**





**Photo 173: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 175: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 174: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 176: Big Cone Fir Mitigation Area: January 13, 2020**





**Photo 177: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 178: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 179: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 180: Big Cone Fir Mitigation Area: January 13, 2020**





**Photo 181: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 182: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 183: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 184: Big Cone Fir Mitigation Area: January 13, 2020**





**Photo 185: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 187: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 186: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 188: Big Cone Fir Mitigation Area: January 13, 2020**





**Photo 189: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 190: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 191: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 192: Big Cone Fir Mitigation Area: January 13, 2020**





**Photo 193: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 194: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 195: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 196: Big Cone Fir Mitigation Area: January 13, 2020**





**Photo 197: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 198: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 199: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 200: Big Cone Fir Mitigation Area: January 13, 2020**





**Photo 201: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 203: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 202: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 204: Big Cone Fir Mitigation Area: January 13, 2020**





**Photo 205: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 206: Big Cone Fir Mitigation Area: January 13, 2020**



**Photo 207: Basin B: January 13, 2020**



**Photo 208: Basin B: January 13, 2020**





**Photo 209: Basin B Outlet: January 13, 2020**



**Photo 210: Basin B Outlet to Eastside Channel: January 13, 2020**



**Photo 211: Basin B High Flow Outlet Concrete Cracks:  
January 13, 2020**



**Photo 212: Basin B High Flow Outlet Concrete Cracks:  
January 13, 2020**





**Photo 213: Basin B High Flow Outlet Concrete Cracks:  
January 13, 2020**



**Photo 214: Basin B: February 26, 2020**



**Photo 215: Basin B: February 26, 2020**



**Photo 216: Basin B: February 26, 2020**





**Photo 217: Basin B: February 26, 2020**



**Photo 218: Basin B High Flow Outlet: February 26, 2020**



**Photo 219: Basin B High Flow Outlet: February 26, 2020**



**Photo 220: Basin B High Flow Outlet: February 26, 2020**





**Photo 221: Canyon Eastside Hydroseed Slopes: January 13, 2020**



**Photo 222: Canyon Eastside Hydroseed Slopes: January 13, 2020**



**Photo 223: Canyon Eastside Hydroseed Slopes: January 13, 2020**



**Photo 224: Canyon Eastside Hydroseed Slopes: January 13, 2020**





**Photo 225: North Ridgeline: January 13, 2020**



**Photo 226: North Ridgeline: January 13, 2020**



**Photo 227: North Ridgeline: January 13, 2020**



**Photo 228: North Ridgeline Oak Trees: January 13, 2020**





**Photo 229: North Ridgeline Oak Trees: January 13, 2020**



**Photo 230: East Ridgeline: January 13, 2020**



**Photo 231: East Ridgeline Slopes Hydroseeding: January 13, 2020**



**Photo 232: East Ridgeline Slopes Hydroseeding: January 13, 2020**





**Photo 233 Terminal Basin Inlet: January 13, 2020**



**Photo 234: Terminal Basin Inlet: February 26, 2020**



**Photo 235: Terminal Basin Inlet: February 26, 2020**



**Photo 236: Terminal Basin Inlet: February 26, 2020**





**Photo 237: Terminal Basin Inlet: February 26, 2020**



**Photo 238: Terminal Basin: January 13, 2020**



**Photo 239: Terminal Basin: January 13, 2020**



**Photo 240: Terminal Basin: January 13, 2020**





**Photo 241: Terminal Basin: January 13, 2020**



**Photo 242: Terminal Basin: January 13, 2020**



**Photo 243: Terminal Basin: January 13, 2020**



**Photo 244: Terminal Basin: January 13, 2020**





**Photo 245: Terminal Basin: January 13, 2020**



**Photo 246: Terminal Basin: January 13, 2020**



**Photo 247: Terminal Basin: January 13, 2020**



**Photo 248: Terminal Basin: January 13, 2020**





**Photo 249: Terminal Basin: January 13, 2020**



**Photo 250: Terminal Basin: January 13, 2020**



**Photo 251: Terminal Basin Outlet: January 13, 2020**



**Photo 252: Terminal Basin: February 26, 2020**





**Photo 253: Terminal Basin: February 26, 2020**



**Photo 254: Terminal Basin: February 26, 2020**



**Photo 255: Terminal Basin: February 26, 2020**



**Photo 256: Terminal Basin: February 26, 2020**





**Photo 257: Terminal Basin Outlet: February 26, 2020**



**Photo 258: Terminal Basin Outlet: February 26, 2020**



**Photo 259: Terminal Basin: February 26, 2020**



**Photo 260: Terminal Basin: February 26, 2020**





**Photo 261: Terminal Basin: February 26, 2020**



**Photo 262: Terminal Basin: February 26, 2020**



**Photo 263: Terminal Basin Outlet: February 26, 2020**



**Photo 264: Terminal Basin Outlet: February 26, 2020**





**Photo 265: Deck A Sage Mitigation Area: January 13, 2020**



**Photo 266: Deck A Sage Mitigation Area: January 13, 2020**



**Photo 267: Deck A Sage Mitigation Area: January 13, 2020**



**Photo 268: Deck A Sage Mitigation Area: January 13, 2020**





**Photo 269: Deck A Sage Mitigation Area: January 13, 2020**



**Photo 270: Deck A Sage Mitigation Area: January 13, 2020**



**Photo 271: Deck B Sage Mitigation Area: January 13, 2020**



**Photo 272: Deck B Sage Mitigation Area: January 13, 2020**





**Photo 273: Deck B Sage Mitigation Area: January 13, 2020**



**Photo 274: Deck B Sage Mitigation Area: January 13, 2020**



**Photo 275: Deck B Sage Mitigation Area: January 13, 2020**



**Photo 276: Deck B Sage Mitigation Area: January 13, 2020**





**Photo 277: Deck B Sage Mitigation Area: January 13, 2020**



**Photo 278: Deck B Sage Mitigation Area: January 13, 2020**



**Photo 279: Deck B Sage Mitigation Area: January 13, 2020**



**Photo 280: Deck B Sage Mitigation Area: January 13, 2020**





**Photo 281: Deck C Sage Mitigation & PM 10 Tree Areas:  
January 13, 2020**



**Photo 282: Deck C Sage Mitigation & PM 10 Tree Areas:  
January 13, 2020**



**Photo 283: Deck B Sage Mitigation Area: February 26, 2020**



**Photo 284: Deck B Sage Mitigation Area: February 26, 2020**





**Photo 285: Deck B Sage Mitigation Area: February 26, 2020**



**Photo 286: Deck B Sage Mitigation Area: February 26, 2020**



**Photo 287: Deck B Sage Mitigation Area: February 26, 2020**



**Photo 288: Deck B Sage Mitigation Area: February 26, 2020**





**Photo 289: Deck B Sage Mitigation Area: February 26, 2020**



**Photo 290: Deck C Sage Mitigation: February 26, 2020**



**Photo 291: Deck C Sage Mitigation: February 26, 2020**



**Photo 292: Deck C Sage Mitigation: February 26, 2020**





**Photo 293: Deck C Sage Mitigation & PM 10 Tree Areas:  
February 26, 2020**



**Photo 294: Site: January 13, 2020**



**Photo 295: Site: January 13, 2020**



**Photo 296: Site: January 13, 2020**





**Photo 297: Site: January 13, 2020**



**Photo 298: Site: January 13, 2020**



**Photo 299: Site: February 26, 2020**



**Photo 300: Site: February 26, 2020**





**Photo 301: Site: February 26, 2020**



**Photo 302: Site: February 26, 2020**



**Photo 303: Site: February 26, 2020**



**Photo 304: Site: February 26, 2020**





**Photo 305: Site: February 26, 2020**



**Photo 306: Site: February 26, 2020**



**Photo 307: Site: February 26, 2020**



**Photo 308: Site: February 26, 2020**





**Photo 309: Site: February 26, 2020**



**Photo 310: Site: February 26, 2020**



**Photo 311: Site: February 26, 2020**



**Photo 312: Site: February 26, 2020**





**Photo 313: Site: February 26, 2020**



**Photo 314: Illegal Dumping at Sierra Highway Near I-14 Overpass: January 13, 2020**



**Photo 315: Graffiti on Exterior Block Wall at Balboa Off-ramp at San Fernando Road: January 13, 2020**



**Photo 316: Caltrans Exterior Slope at Freeway Off-Ramp: January 13, 2020**





**Photo 317: Caltrans Exterior Slope at Freeway Off-Ramp:  
January 13, 2020**



**Photo 318: Caltrans Exterior Slope at Freeway Off-Ramp:  
January 13, 2020**



**Photo 319: Caltrans Exterior Slope at Freeway Off-Ramp:  
January 13, 2020**



**Photo 320: Caltrans Exterior Slope at Freeway Off-Ramp:  
January 13, 2020**





**Photo 321: Caltrans Exterior Slope at Freeway Off-Ramp:  
January 13, 2020**



**Photo 322: Caltrans Exterior Slope at Freeway Off-Ramp:  
January 13, 2020**



**Photo 323: Caltrans Exterior Slope at Freeway Off-Ramp:  
January 13, 2020**



**Photo 324: Caltrans Exterior Slope at Freeway Off-Ramp:  
January 13, 2020**





**Photo 325: Caltrans Exterior Slope at Freeway Off-Ramp:  
January 13, 2020**



**Photo 326: Caltrans Exterior Slope at Freeway Off-Ramp:  
March 27, 2020**



**Photo 327: Caltrans Exterior Slope at Freeway Off-Ramp:  
March 27, 2020**



**Photo 328: Caltrans Exterior Slope at Freeway Off-Ramp:  
March 27, 2020**



# Appendix III

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

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### UltraSystems Staff

James Aidukas

Mike Lindsay

### Fields of Expertise:

Project Manager, Permitting and Operations/ Engineer

Air Quality, Noise, Vehicle Emissions, Environmental  
Specialist/ Engineer

# January Site Visits

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## January 13, 2020:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 1/13/20
Site Conditions: Cloudy 45-60° F, 0-10 MPH winds	
SITE LOG	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood and school areas from 6:30 to 7:10 a.m. There were no landfill-related odors detected. Met with Mike Lindsay (UltraSystems) and Edgar De La Torre (LACDRP). We had a brief discussion with Chris Coyle, signed in, and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• Drove the adjacent neighborhood and school area. No landfill odors were detected.</li> <li>• Drove Sierra Highway and observed bags of trash and a dumped mattress near the I-14 overpass.</li> <li>• Stopped and investigated a large crevice on the exterior freeway slope just north of the Adler condensate tank farm. It appears that the crevice was caused by years of erosion and became visible because of the fire that burned through the vegetation.</li> <li>• Graffiti was observed on the exterior block wall at the I-5 Balboa off ramp.</li> <li>• Cell CC-4 Part 3 was accepting packer truck waste between 9:30-10:00 a.m. The Part 3 basin had a minimal amount of standing water. A sizable amount of windblown litter was on the water's edge.</li> <li>• Basin B was free of water, with the floor areas covered with dry and moist sediment. Litter was observed in the back eastern area. Vegetation was growing in cracks in the high flow spillway.</li> <li>• The eastern burnt slopes above and north of Basin B were hydroseeded.</li> <li>• Cell CC-4 Part 1/2 was accepting transfer truck waste above and west of the County Bowl area.</li> <li>• Wet weather material was being stockpiled on the County top deck.</li> <li>• Alder Tank Farm liquids handling facility was operational with no odors detected. There was no standing water in the area.</li> <li>• Pipe and wet weather material was being staged on the CC-3B top deck.</li> <li>• The Old City South landfill slopes were graded and had jute netting in place where needed. Vegetation was coming back on most of the slopes.</li> <li>• The County northern slopes that burned were hydroseeded.</li> <li>• The County sage mitigation area slopes did not get burned and were greening up.</li> <li>• The Big Cone Fir mitigation tree area was observed. The fire impacted this area. A biological evaluation and count of trees lost should be performed.</li> <li>• Basin A had approximately 80% of the floor covered with standing water. A minimal amount of water was observed being discharged into the westside channel.</li> </ul>	

Page 2 of 2, 1/30/20:

- City sage mitigation Decks A, B, and C were greening up. All decks should have biological evaluations done to recommend what non-native vegetation should be removed and when before it takes over the natives.
- The condition of the PM-10 oak trees needs to be evaluated and action taken to help them recover from the fire impacts.
- The Terminal Basin had standing water at the outlet risers with a significant amount of debris floating on the water. Over half of the basin's floor was covered with a significant amount of sediment.
- The outlet had some sediment and windblown litter present.

Flare Operating Conditions:

- Flare 1 - 1640°F, 2380 SCFM, -57.60" vacuum, 38.80" out, 35% CH<sub>4</sub>, 1.6% O<sub>2</sub>, 100 ppm H<sub>2</sub>S
- Flare 3 - Flare was not accessible
- Flare 9 - 1650°F, 2475 SCFM, -63.1" vacuum, 39.1" out, 45% CH<sub>4</sub>, 1.2% O<sub>2</sub>, 100 ppm H<sub>2</sub>S
- Flare 10 - 1659°F, 2475 SCFM
- Flare 11 - 1659°F, 2295 SCFM

The gas-to-energy plant volume of gas consumed was not recorded.

FURTHER REVIEW NEEDED

COMMENTS

Signed:





**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 01-13-2020      Monday
Site Conditions: Clear, 46–62 °F, 3–9 mph, 54% RH	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas (UltraSystems), and checked into office and with Chris Coyle (Republic).</li> <li>2. Met with Edgar De La Torre (LAC DRP).</li> <li>3. No odors are present in adjacent neighborhood and school.</li> <li>4. Illegally dumped mattress and debris are present on Sierra Highway near the I-14 overpass.</li> <li>5. Observed large earthen crevice just outside of landfill property, north of tank farm.</li> <li>6. The new working area at Cell CC-4 Part 3 is in good order, including traffic controllers and water trucks for odor and dust control. The cell is currently open to packer trucks only.</li> <li>7. Sediment basin B floor is covered with about two feet of sediment, with no standing water.</li> <li>8. Water trucks are applying water to site for dust control.</li> <li>9. Concrete cracks at sediment basin B overflow spillway have vegetation growing in them.</li> <li>10. Cell CC-4 Part 1/2 working area is in good order, with three tippers, traffic control and water trucks.</li> <li>11. Workers are picking up wind-blown trash at Cell CC-4 Part 1/2.</li> <li>12. Bird abatement is active at the working area, including rockets and falconry.</li> <li>13. Street sweepers are cleaning the haul roads.</li> <li>14. Broken asphalt is being stockpiled on Cell CC-4 Part 1/2 deck.</li> <li>15. Cell CC-3B has new pipe construction occurring.</li> <li>16. Localized gas odors are present at Cell CC-3A top deck.</li> <li>17. Traffic spotters are onsite to control traffic.</li> <li>18. Flare 9 is operating at 2450 scfm, 1648 °F. Gas sample measured at 45 % Vol. CH<sub>4</sub>, 1.2 % Vol. O<sub>2</sub>, 100 ppm H<sub>2</sub>S and 447 ppm CO. Gas inlet temperature is 112 °F.</li> <li>19. Flare 10 is operating at 2413 scfm, 1659 °F.</li> <li>20. Flare 11 is operating at 2287 scfm, 1659 °F. Gas inlet temperature is 122 °F.</li> <li>21. Big cone fir trees have been partially damaged from the recent Saddleridge fire. Above-ground water pipes have melted at many locations.</li> <li>22. The secondary access road is in good order.</li> <li>23. Sediment basin A floor is covered with about two feet of standing water.</li> <li>24. Hydroseeding is occurring on the north perimeter slopes.</li> <li>25. Flare 1 is operating at 2363 scfm, 1640 °F. Gas sample measured at 35 % Vol. CH<sub>4</sub>, 1.6 % Vol. O<sub>2</sub>, 100 ppm H<sub>2</sub>S and 315 ppm CO. Gas inlet temperature is 112 °F.</li> <li>26. City Deck A sage mitigation area has new grass spouting due to recent rains.</li> <li>27. The City Deck C sage mitigation area is beginning to show new growth after the fire.</li> <li>28. The PM-10 berm oak trees are beginning to sprout new green growth.</li> <li>29. Water misters are active along the PM-10 berm.</li> <li>30. City Deck B sage mitigation area has green grasses beginning to grow.</li> <li>31. Terminal basin is mostly covered with standing water from recent rains.</li> <li>32. Trash and debris are still present near riser drains and outside of west wall at terminal outlet channel.</li> <li>33. Met with Chris Coyle and Republic staff, and discussed our site monitoring observations.</li> </ol>	

FURTHER REVIEW NEEDED

1. Remove mattress and debris along Sierra Highway.
2. Remove vegetation from sediment basin B concrete cracks, and repair concrete.
3. Eliminate gas odors at cell CC-3A top deck.
4. Remove trash and debris from terminal basin and outlet channel area.

Signed: *Michael W. Lindsay*



# February Site Visits

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## February 26, 2020:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 2/26/2020
Site Conditions: Cloudy 55-75° F, 0-15 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. There were no landfill-related odors detected. Met with Mike Lindsay (UltraSystems), Edgar De La Torre and Tim Stapleton (LACDRP), and Vu Truong (LACDPW). We had a brief discussion with Josh Mills, signed in, and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• Early morning waste was deposited in Cell CC-4 Part 3. Tarps were not employed between 7:00 – 9:00 a.m. because of the wind gusts. Compaction was used.</li> <li>• The southwest slopes of Cell CC-4 Parts 1-2 had erosion rills from prior rain events. Trash was not exposed.</li> <li>• The CC-4 Part 1-2 southwest slope HDPE downcomer was repaired and in good condition.</li> <li>• The CC-4 Part 1-2 south slope has deep erosion rills in the soil stockpile area. The closure turf was in good condition and no concerns were noted.</li> <li>• Hydroseeding was done on the Old City South landfill slopes that were impacted by the fire.</li> <li>• City Deck B native plants were slowly recovering from the fire and gas recovery system's piping replacement construction.</li> <li>• City Deck C native plants were slowly recovering from fire impacts.</li> <li>• A new odor control mister system was operational above the Deck C PM-10 berm area.</li> <li>• The new employee access road from the main access road to the new office area on the Old City North top deck is paved and has curbing and drainage control.</li> <li>• There were dust clouds seen from the used of the access road to the CC-4 Part 1-2 top deck active area. The site employed additional water application when notified.</li> <li>• The County sage mitigation area slopes are greening up. Native vegetation is doing well in select areas. The area with prior erosion rills has some native vegetation growing.</li> <li>• Basin A was dry. Hillside and basin windblown litter was removed. Minimal sediment was in the basin.</li> <li>• The fire impacted slopes above and around Basins A, Basin B and near the gas-to-energy facility have been hydroseeded.</li> <li>• Basin B has no standing water. There is minimal sediment with most of it dry except for the back eastern area. Vegetation is growing in the concrete cracks of the high level spillway.</li> </ul>	



Page 2 of 2, 2/26/2020:

- Waste was being deposited in the northeast area of CC-4 Part 1-2 above the County bowl area and CC-4 Part 3. There were no areas of concern noted.
- The basin in CC-4 Part 3 had standing water.
- A new main gas collection pipeline was installed north of the new scale location with a branch main collector to the west to enhance gas collection from the CC-3A top deck.
- The concrete foundation for the future scales' location were in place.
- The terminal basin had standing water east of the gabion wall. Removal of debris around the outlet risers remains a challenge.
- Trash and debris were observed on the Sierra Highway roadway shoulder north of the I-14 overpass.

Flare Operating Conditions:

- Flare 1 - 1633°F, 2308 SCFM, -56.79" vacuum, 37.77" out, 33% CH<sub>4</sub>, 1.6% O<sub>2</sub>, 100 PPM H<sub>2</sub>S
- Flare 3 - 1617°F, 1974 SCFM, -56.79", 42% CH<sub>4</sub>, 1.1% O<sub>2</sub>, 90 PPM H<sub>2</sub>S
- Flare 9 - 1675°F, 2792 SCFM, -61.65" vacuum, 39.88" out, 46% CH<sub>4</sub>, 1.0% O<sub>2</sub>, 100 PPM H<sub>2</sub>S
- Flare 10 - 1672°F, 2801 SCFM
- Flare 11 - 1645°F, 2381 SCFM

The gas-to-energy plant was using 6488 SCFM of recovered landfill gas, 46% CH<sub>4</sub>, 1.0% O<sub>2</sub>, 100 ppm H<sub>2</sub>S . Total gas volume recovered was 18,744 SCFM. The plant was in the process of shutting down for a main gathering lateral tie-in

FURTHER REVIEW NEEDED

COMMENTS

Signed:



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 02-26-2020      Wednesday
Site Conditions: Clear, 57–75 °F, 6–16 mph, 18% RH	
SITE LOG	
<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 and Edgar De La Torre (LAC DRP), and Vu Truong (LAC DPW).</li> <li>3. Flare 1 is operating at 2316 scfm, 1637 °F. Gas sample measured at 33 % Vol. CH<sub>4</sub>, 1.6 % Vol. O<sub>2</sub>, 100 ppm H<sub>2</sub>S and 316 ppm CO. Gas inlet temperature is 95 °F.</li> <li>4. Hydroseeding has occurred on the fire-damaged north perimeter slopes by Flare 1.</li> <li>5. Street sweepers are cleaning the haul roads.</li> <li>6. City deck B sage mitigation area is beginning to recover, with some vegetation sprouting.</li> <li>7. Water misters are active along the PM-10 berm, with strong winds blowing to the south.</li> <li>8. City deck C sage mitigation area is beginning to recover, with some vegetation sprouting.</li> <li>9. The access road from the 3B low-point drainage up to the old City north deck and tank farm has been paved, including curb, gutter and block retaining walls.</li> <li>10. Closure turf at the City north slopes is in good order.</li> <li>11. Flare 9 is operating at 2044 scfm, 1595 °F. Gas sample measured at 46 % Vol. CH<sub>4</sub>, 1.0 % Vol. O<sub>2</sub>, 100 ppm H<sub>2</sub>S and 439 ppm CO. Gas inlet temperature is 116 °F.</li> <li>12. Flare 10 is operating at 2370 scfm, 1646 °F.</li> <li>13. Flare 11 and all flares are in the process of a temporary shut-down for a major piping tie-in at 9:15 am.</li> <li>14. Sediment basin A is dry. Southwest slopes have been hydroseeded.</li> <li>15. Workers have collected ten orange trash bags of wind-blown trash around sediment basin A.</li> <li>16. Flare 3 is operating at 1974 scfm, 1617 °F. Gas sample measured at 42 % Vol. CH<sub>4</sub>, 1.1 % Vol. O<sub>2</sub>, 90 ppm H<sub>2</sub>S and 442 ppm CO. Gas inlet temperature is 119 °F.</li> <li>17. Cell CC-4 Part 3 working area is in good order, including tippers, traffic controllers and water trucks for odor and dust control. The cell is currently open to mostly transfer trucks and some packer trucks. The low-point catch basin is partially filled with water. ADC is 80% covered with new trash at 11:15 am.</li> <li>18. Bird abatement is active at the working area, including rockets and falconry.</li> <li>19. Cell CC-4 Part 1/2 working area is in good order with tippers only. ADC is 40% covered with new trash at 11:30 am.</li> <li>20. Traffic spotters are onsite to control traffic.</li> <li>21. Dust clouds are present at 11:30 am due to dry and windy conditions. Recommend additional water trucks for dust control.</li> <li>22. Sediment basin B is in good order, with no standing water.</li> <li>23. Vegetation is growing out of concrete cracks at sediment basin B spillway.</li> <li>24. Slopes around basin B have been hydroseeded.</li> <li>25. Yellow daisy and lupin are blooming around the landfill.</li> <li>26. Observed new landfill gas pipe tie-in, just north of the new scale pads.</li> <li>27. Water trucks are applying water to site for dust control.</li> <li>28. New concrete scale pads have been poured along the eastside drainage channel.</li> <li>29. Terminal basin is in good order, with some standing water remaining. Skimmers are not in</li> </ol>	



operation.

30. Vegetation is growing out of concrete cracks at terminal basin east wall.
31. Wind-blown trash and debris have been removed from the perimeter wall at terminal basin outlet.
32. Sierra Highway is in good overall condition, with some trash and debris along the south shoulder, east of the I-14 overpass.
33. No odors are present in adjacent neighborhood and school.
34. Met with Joshua Mills and Republic staff, and discussed our site monitoring observations.

FURTHER REVIEW NEEDED

1. Eliminate dust clouds along the haul roads with additional water trucks.
2. Remove vegetation from sediment basin B concrete cracks, and repair concrete.
3. Remove vegetation from terminal basin concrete cracks.

Signed: *Michael W. Lindsay*

# March Site Visits

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## March 25, 2020:

No site visit occurred due to Covid-19 health protocols.

A remote site monitoring meeting was held on March 25, 2020.



**Sunshine Canyon Landfill Meeting Log  
March 2020 Remote Site Monitoring**

March 25, 2020

Remote site monitoring conference call with Chris Coyle, Joshua Mills, Tuong-phu Ngo, Mike DeYoung and Dennis Montano (Republic).

Participants:

Tim Stapleton, LACDRP  
Edgar De La Torre, LACDRP  
Gabriel Esparza, LACDPW  
Vu Truong, LACDPW  
Dave Thompson, LA City LEA  
James Aidukas, UltraSystems  
Mike Lindsay, UltraSystems



Discussion:

In lieu of a site visit, and to follow CDC guidelines for COVID-19 health protocols, a conference call was held to discuss Sunshine Canyon Landfill operational status for the month of March. We asked questions regarding health measures, site operations, weather impacts, landfill gas and liquids control, construction activities, and mitigation measures status. We received comments and updates from Republic staff as follows:

- a. James Aidukas asked what the site disposal sequence areas were in March during the rains and when dry, and what is planned for April.
  - o Joshua Mills stated that for the recent weeks of rain, they have been using Cell CC4 Part 1/2 exclusively. Next week they will be back to filling in CC-4 Part3. In April, they will be in CC-4 Part 3, and will finish some areas of CC-4 Part 1/2.
- b. Mike Lindsay asked how much rainfall has been recorded at the landfill.
  - o Chris Coyle stated that they received six inches for the month of March. The total rainfall for the entire season was 17.3 inches.
- c. James Aidukas asked what the current hours of operation are.
  - o Chris Coyle stated that they are open from 6:00 am to 6:00 pm, Monday through Friday, and 7:00 am to 1:00 pm on Saturdays. They can stay open until 2:00 pm on Saturdays if there is enough demand for disposal.
- d. James Aidukas asked if there was a special homeowner's disposal area.
  - o Joshua Mills stated that they utilize their standard setup, with a larger area adjacent to the working face for homeowner's disposal.
  - o Chris Coyle stated that they have coordinated with LACDPW's request for the cancellation of the homeowner's free disposal event for April due to COVID-19 restrictions.

- e. James Aidukas asked what the status of the sediment basins were after the rain events.
  - o Joshua Mills stated that all of the basins are performing as intended, and that silt is being retained onsite per their design. He stated that all of the conveyance channels are working well, as evidenced by the outlet water samples that are within specification.
- f. James Aidukas asked if the terminal basin skimmer system is working as planned.
  - o Joshua Mills stated that they are working well.
- g. James Aidukas asked if the CC-4 Part 3 low-point basin was being pumped out, and whether wind-blown litter had been removed.
  - o Joshua Mills stated that they are pumping out the water at the basin. There still is some windblown litter in the back of the basin that will be removed when the water is gone. He stated that they are actively working to pick up any windblown litter on the site and that no litter is leaving the site.
- h. James Aidukas asked if there was any water ponding on the top decks.
  - o Joshua Mills stated that for the most part, everything is flowing well. He stated that there are a couple of locations of ponding water which will be pumped out and graded when dry.
- i. James Aidukas asked if there have been any erosion problems, either major or minor, caused by the Saddleridge Fire.
  - o Joshua Mills stated that no erosion problems have occurred from the fire. The hydroseeding of the burned slopes has performed well. Any areas of erosion that occurred on the landfill slopes were not serious and were promptly repaired.
- j. James Aidukas asked if there has been any notice of violations regarding the gas recovery or liquids and treatment systems.
  - o Joshua Mills stated that no NOVs have been issued and that everything is in compliance. The bimonthly tuning of the gas recovery system has been performed by SCS.
- k. James Aidukas asked about the status of the liquid recovery and treatment system.
  - o Joshua Mills stated that the tank farm is operating well. The liquids recovery system is operating as designed and is controlling liquids buildup.
- l. James Aidukas asked if the CC-4 Part 1/2 bowl area or the CC-3A top deck has been connected to the new 24-inch gas collection header.
  - o Joshua Mills stated that they have made progress in that area with the addition of the 24-inch header. Work will continue after the wet weather season has ended with the header connection to CC-3A and CC-4 Part 1/2 bowl areas.
- m. James Aidukas asked if there have been any power outages.
  - o Joshua Mills stated that there have been no power outages.
- n. James Aidukas asked about the plane crash above the landfill ridgeline.
  - o Joshua Mills stated that it occurred on Friday, March 13th, and that it clipped the utility power poles that go to Flare 3.



- o. Gabriel Esparza asked if Flare 3 was down.
  - Joshua Mills stated that it has been nonoperational since March 13 due to the power loss. He stated that the crash site access was restricted by investigators until Saturday afternoon. A new access will be graded this week in order to allow construction personnel to assess the damage and order materials. These poles are owned by Republic.
  - Chris Coyle stated that Flare 3 is a backup flare, so there has been no disturbance to gas recovery operations.
- p. James Aidukas asked about construction activities, and whether they have been postponed due to COVID-19.
  - Chris Coyle stated that nothing has been postponed. The relocation of the office facilities, scales and utilities are proceeding as scheduled.
- q. James Aidukas asked if construction for Cell CC 4 Part 4A will start in May.
  - Chris Coyle stated that they will probably be getting started sooner than that.
- r. Mike Lindsay asked if they were still planning on splitting the scales operations between the existing location and the new location.
  - Chris Coyle stated that they will split operations only for a short transition period.
- s. James Aidukas asked if a biological survey was required for the CC-4 Part 4 cell construction.
  - Tuong-phu Ngo stated that no biological survey was required.
- t. James Aidukas asked what the revegetation status was on the Decks A, B and C sage mitigation areas. He also stated that February photos showed additional native plants growing on the County sage mitigation slopes.
  - Chris Coyle stated that it is status quo. He stated that they have done some weeding, and that the rains will certainly help with the recovery. JMA recommends that they continue removal of the non-native plants for two years and evaluate options at that time. Chris Coyle also stated that the whole site looks great and is very green except for where the new cocoa matting has been installed.
- u. James Aidukas asked what the tree replacement status was.
  - Tuong-phu Ngo stated that they are following JMA's recommendation of waiting two to three years after the fire damage to assess the number of trees that have grown back and the ones that have to be replaced.
- v. James Aidukas asked what impacts has COVID-19 had on the landfill operations.
  - Chris Coyle stated that they are following the CDC requirements and that they have implemented the following:
    - Acquired another employee van
    - Implemented separate lunch schedules
    - Set a limit of two people at a time in the locker room
    - Installed new handwash stations around the facility
    - Will put out buckets of water and bleach when parts arrive
    - Wiping down vans twice per day
    - Issuing latex gloves
    - Performing weekly deep-cleaning
    - Performing daily cleaning of door handles

- Eliminating the need for non-essential signatures
- w. James Aidukas asked if they were having any problems with acquiring workers for litter pickup.
  - Chris Coyle stated that they are not having any problems getting workers. He stated that contractors and employees carry a FEMA card showing that they are essential service providers.
- x. James Aidukas asked what impacts Republic Services was having with COVID-19.
  - Chris Coyle stated that out of 370,000 companywide employees, 88 employees had contracted COVID-19, but none so far at Sunshine Canyon.

The meeting was then adjourned.





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## Sunshine Canyon Landfill Summary of 2020 March Operations

### **1. Site Disposal Operating Area**

- a. When not raining
  - i. March
  - ii. April
  - iii. May
- b. When raining
  - i. March
  - ii. April
  - iii. May

### **2. Hours for Disposal**

### **3. Condition of the Site After the Rains**

- a. Basins
  - i. A
  - ii. B
  - iii. 3B
  - iv. Terminal
  - v. CC-4 Part 3
  - vi. Deck Water Ponding
- b. Erosion
  - i. CC-4 Part 3 Buttress
  - ii. Native Areas Fire Impacted
  - iii. Landfill Overall

### **4. Gas Recovery and Utilization Status**

- a. Gas Collection
- b. Surface Emissions
- c. Liquids Recovery and Treatment
- d. Any NOV's
- e. Gas to Energy Outages
- f. Construction Activities (Gas and Liquids Related)

### **5. Power Outages**

### **6. Impacts from Airplane Crash**



**7. Construction Activities**

- a. Done in March
- b. Planned for April

**8. Vegetation Status**

- a. Decks
  - i. A
  - ii. B
  - iii. C
  - iv. County Sage Slopes
- b. Maintenance Activities
- c. Tree replacement status

**9. COVID-19 Impact to Operations**



## **Sunshine Canyon Landfill Site Monitoring Proposal for April, May, and June 2020**

To follow the CDC guidelines for COVID-19 health protocols and to comply with State, County and City restrictions, UltraSystems is proposing a two-step monitoring of the landfill to occur on one day each month during April through June, 2020.

UltraSystems will send a single engineer to perform a fact-finding visit in a single vehicle. The engineer will sign in by phone with landfill staff when arriving on site. The engineer will start at the office parking and drive around the site, taking pictures of the current landfill conditions, construction activities, waste disposal, gas recovery and flaring. The engineer will not leave the immediate area of the vehicle or have personal contact with any landfill staff or waste disposal customers. Photo locations will include:

1. CC-4 Part 1 & 2
2. CC-4 Part 3
3. CC-4 Part 4A construction
4. Current disposal areas
5. Sedimentation basins
6. Gas-to-energy locations
7. Flares
8. New office and scales construction
9. Sage mitigation areas
10. Offsite areas to monitor illegal dumping and/or windblown litter
11. Offsite areas to monitor odors

After performing the monitoring activities, the UltraSystems engineer will notify Republic staff that they are signing out and leaving the site.

All photos will be emailed to Republic staff, City LEA, County Planning and Department of Public Works. A brief after-monitoring conference call will follow after reviewing the photos.

# Appendix IV

## Meeting Logs

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**Sunshine Canyon Landfill  
Meeting Log for January 2020 Site Monitoring**

January 13, 2020

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

**Attendees:**

Edgar De La Torre, LAC DRP  
Mike Harmon, LAC DPW (on conference call)  
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 City decks A, B and C are starting to recover from the Saddleridge fire in October.
  - o Chris Coyle stated that their consultant (JMA) advised them to leave the City decks alone for two to three years.
- b. James Aidukas stated that the big cone fir mitigation area had about ten trees die due to the impacts from the fire.
  - o Chris Coyle stated that Republic is planning to conduct another tree count survey and will issue a report on the condition and number of trees impacted.
- c. Edgar De La Torre stated that there is graffiti on the Republic exterior block wall near the Balboa Boulevard I-5 off ramp.
  - o Chris Coyle acknowledged the statement.
- d. Mike Lindsay stated that there is an illegally dumped mattress and bags of trash along Sierra Highway near the I-14 overpass.
  - o Chris Coyle acknowledged the statement and stated that he will have the crew pick it up.
- e. Mike Lindsay stated that there is vegetation growing out of concrete cracks in the sediment Basin B overflow spillway.
  - o Chris Coyle acknowledged the statement.
- f. Mike Lindsay stated that landfill gas odors were present on Cell CC-3A top deck at 11:30 AM.
  - o Chris Coyle acknowledged the statement. He stated that work was being performed in that area.
- g. James Aidukas stated that we investigated the large crevice on the exterior slope just north of the Adler condensate tank farm. It appeared that the crevice was caused by years of erosion and had become visible because of the fire that burned through the vegetation.

- Chris Coyle acknowledged the statement.
- h. James Aidukas stated that Flares 9, 10, and 11 blowers have the north blower's vacuum gauge reading low or the north blower is having mechanical problems.
  - Joshua Mills stated that the transmitter is defective.
- i. James Aidukas stated that the new blower skid's north blower at Flare 9, 10, and 11 has gas odors coming from the output flange.
  - Joshua Mills stated that he also noticed the odor and will have SCS fix the leak.
- j. Joshua Mills stated that they received 16 odor complaints in December.
  - James Aidukas acknowledged the statement.
- k. James Aidukas stated that there were dust clouds coming from equipment moving on the County top deck near the soil stockpile area.
  - Joshua Mills acknowledged the statement.
- l. Mike Harmon asked what the status was on the variance.
  - Joshua Mills stated that they had until January 12 for submission of information, and that everything has been submitted. SCAQMD was out last week and no problems were observed.
- m. Mike Harmon asked what the status was on the fire damage replacement plan.
  - Chris Coyle stated that a replacement plan was not needed because all of the work will be completed by next week.
- n. Mike Harmon stated that Public Works requested a copy of the emergency response plan, and have not received it yet.
  - Chris Coyle stated that the plan was sent to Public Works, and that he will re-send it.
- o. Mike Harmon asked what the status was on perimeter probe number 205.
  - Chris Coyle stated that they will send the status update to Public Works, as soon as they receive it.

The meeting was then adjourned.



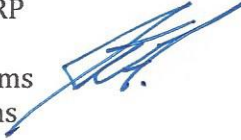
**Sunshine Canyon Landfill  
Meeting Log for February 2020 Site Monitoring**

February 26, 2020

Post-monitoring meeting with Joshua Mills, Tuong-phu Ngo and Dennis Montano (Republic).

**Attendees:**

Tim Stapleton, LAC DRP  
Edgar De La Torre, LAC DRP  
Vu Truong, LAC DPW  
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 we observed the new main gas collection pipeline and main branch tie-in construction.
  - o Joshua Mills stated that it is a 36-inch pipe, and that it takes approximately two hours to weld a pipe that size. The gas recovery system was to be shut down for 2-3 hours. The new mainline piping will increase the overall vacuum in that area and increase gas recovery.
- b. James Aidukas asked when Flare 12 will be installed.
  - o Joshua Mills stated that they either need a permit or a decision from SCAQMD that the 1991 EIR analyzed it. SCAQMD is stating that the 1991 EIR only analyzed five flares, not eight.
  - o James Aidukas stated that he will look for a copy of the original determination.
- c. James Aidukas stated that the oil field operator has an oil field flare, with occasional orange flames coming out the top of the stack. SCAQMD should be advised of this condition and the potential fire risk.
  - o Joshua Mills acknowledged the statement.
- d. Mike Lindsay stated that there were large dust clouds coming from the main access leading to and on the Cell CC-4 Part 1-2 working area.
  - o Joshua Mills stated that they do have additional water trucks on site today due to the dry and windy conditions.
- e. James Aidukas stated that there was a Stericycle waste truck traveling to the Cell CC-4 Part 1-2 working area that was leaking liquid out along the roadway and at the disposal area. There was no plastic seal in place and the back lid was not fully closed.
  - o Joshua Mills acknowledged the statement and said that they would follow up with Stericycle.

- f. Mike Lindsay stated that there is vegetation growing out of concrete cracks at the sediment Basin B's high-flow spillway and at the terminal basin southeast wall.
  - o Joshua Mills acknowledged the statement and stated that he would advise maintenance.
- g. James Aidukas stated that there is an accumulation of litter at the Cell CC-4 Part 3 catch basin.
  - o Joshua Mills stated that the pump is being replaced tomorrow, so access will be possible for litter clean-up.
- h. James Aidukas stated that odorous trash was present today at the working areas, but that the odors did not leave the site.
  - o Joshua Mills acknowledged the statement.
- i. James Aidukas asked when the administration offices will be moved to the new location.
  - o Joshua Mills stated that they will be moved in March.
- j. James Aidukas asked when the scale operations will be moved to the new location.
  - o Joshua Mills stated that they will be moved in March and will be split into two operations at first.
- k. James Aidukas asked when the final buttress will begin construction.
  - o Joshua Mills stated that Phase 1 will begin construction next year.
- l. Vu Truong asked what the soil impact will be for the final buttress.
  - o Joshua Mills stated that in the first year (Phase 1) there will have no soil requirement impact. However, in the third year (Phase 3) soil will have to be imported.
- m. James Aidukas asked if there was any progress on the Chatsworth Reservoir mitigation project.
  - o Tuong-phu Ngo stated that there was no progress, and that it is in the City's hands to adopt the ordinance.
- n. James Aidukas asked if the tree survey had been completed.
  - o Tuong-phu Ngo stated that it was completed and is in the fourth quarterly report.
- o. Vu Truong stated that there was no tarp on Cell CC-4 Part 3 at 8:00 am.
  - o Joshua Mills stated that on windy days they do not tarp because the tarp is difficult to safely control.

The meeting was then adjourned.