Sunshine Canyon Landfill
Independent Monitor
Quarterly Site Monitoring Status Report
January 1, 2018 – March 31, 2018

Prepared For:
City of Los Angeles Department of City Planning
And
County of Los Angeles Department of Regional Planning

Prepared By:
UltraSystems
16431 Scientific Way
Irvine, California 92618

Prepared On:
May 25, 2018
CERTIFICATION STATEMENT

May 25, 2018

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated May 25, 2018 is the First Quarterly Report for 2018, issued by UltraSystems. This report covers the monitoring period from January 1, 2018 through March 31, 2018 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,

[Signature]

James T. Aidukas
Project Manager
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Sunshine Canyon Landfill City Mitigation Monitoring Summary
(see spreadsheet)

Sunshine Canyon Landfill County Mitigation Monitoring Summary
(see spreadsheet)

Appendices

Appendix I Further Review Needed Comments: Reference I-a through I-e
Appendix II Photo Location Map and Relevant Site Photos
Appendix III Quarterly Site Visits
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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, 2018 to March 31, 2018. It includes:

1. The City and County Mitigation Monitoring Summary spreadsheets for January 1, 2018 to March 31, 2018. These spreadsheets record the areas of monitoring completed and the status of being compliant during the First quarter of 2018;
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
Site Visits During the Quarter

Five site visits were performed by UltraSystems during the January through March 2018 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on January 10, 2018; January 30, 2018; February 20, 2018; March 14, 2018; and March 29, 2018. The previously discussed conditions and/or mitigation measures were tracked by each specialist who visited, and observations were documented. Site conditions were noted to be: Compliant, Non-Compliant, or Further Review Needed. If a Condition was found to be Non-Compliant or observed as having Further Review Needed, a reference was made to an appendix which details what was observed by the monitor.

Definition of Terms

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

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

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

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

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

Status Summary

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

Compliant

The majority of the conditions and/or mitigation measures monitored were observed to be compliant. There are City and County conditions which are compliant, but are noted as having corresponding comments that refer to the appendices. The Compliant with Comments section of the monitoring report provides a summary of activities being done on-
site to construct or maintain facilities and a summary of documents, reports and drawings that should be readily available onsite for monitoring reference.

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

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

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

**Geology-1.07 (County)**
All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report for the proposed Project, including provisions for excavation approved by the County Department of Public Works, the County Local Enforcement Agency (LEA) and other Responsible Agencies.

**Geology-1.11 (County)**
Grading allows for ancillary facilities outside of the landfill footprint.

**Biota-4.29 (County)**
San Diego Horned Lizard: Impact on the San Diego horned lizard can be mitigated to a level of less than significant by restoring coastal sage scrub habitat. This will create a temporal loss of the species, but the population should recover following restoration of this habitat. Topsoils should be selected that are friable to suit lizard habitat requirements.

**Biota-4.30 (County)**
California Gnatcatcher: Surveys shall be conducted for California gnatcatchers prior to Game Permit onsite grading to determine the status of this Game species within development areas.

**Biota-4.33 (County)**
Migratory Bird Treaty Act: To prevent the loss of an active migratory bird nest, vegetation shall not be cleared during the breeding season (i.e. March 15 to August 1).
Biota-4.34 (County)
Raptor nests: If habitat removal is proposed during the raptor breeding season (i.e. March to July), a survey shall be conducted for active nesting areas.

Current Status/Comments – During the first two months of the 1st Quarter, the buttress design plans and engineering documents to support Cell CC-4 Part 3 adjacent native slopes were under review by the County Department of Public Works Civil Engineering and Permitting sections. The buttress is outside of the prior-approved landfill footprint.

In March, the buttress design and engineering documents were approved by the County Department of Public Works. A biological survey for plants and animals has been performed. No plants or animals of special concern were found. Grading is estimated to start in mid-April pending weather conditions. A counting of oaks and Douglas fir trees, and a survey for nesting birds will be done before grubbing.

In early January, Cell CC-4 Part 1 was accepting waste, with three tippers operating. CC-4 Part 2 was not active. Deep erosion rills were observed on the west-facing slopes below the CC-4 Part 1 deck.

In late January, Cells CC-4 Part 1 and Part 2 were accepting waste. All areas with deep erosion rills where trash was previously exposed were repaired.

In mid-February, Cells CC-4 Part 1 and Part 2 were active and accepting waste. Slopes with erosion rills at the back of Cells CC-4 Parts 1 and 2 were sprayed with Posi-Shell to control erosion.

In mid-March, Cell CC-4 Part 1 was accepting waste; CC-4 Part 2 was not operating. Ponded water was observed in the CC-4 Part 2 lined channel. The water topped the lined channel on the northern and western sides. A pond of water was observed at the base of the west-facing stockpile soils slope in CC-3A.

In late March, Cells CC-4 Parts 1 and 2 were accepting waste.

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 – Throughout the 1st Quarter, there were numerous dirt access roads that are used daily, but infrequently. When used, blowing dust is a concern. The use of a soil sealant or limiting the use of dirt roads to those that are watered should be considered. The use of a soil sealant on temporary construction roads should be evaluated. The use of water trucks was not effective in controlling dust on these roads.

In mid-February, dust clouds were observed coming from the Old City North top deck, CC-3B top deck, and the County top deck. Landfill service roads were not watered or treated for dust control, and traffic would cause large dust clouds.

Q-C.5 (City)
Graffiti removal and deterrence on building and structures in public view.
**Current Status/Comments** – During this quarter, no graffiti was observed.

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

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

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

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

**Current Status/Comments** – In early January, the gas-to-energy plant was using 8862 SCFM of recovered landfill gas, 46% CH4, 1.1% O2, 56 ppm H2S. Flare 1: 2448 SCFM; Flare 3: shut down; Flare 9: shut down; Flare 10: 3107 SCFM; Flare 11: 2708 SCFM. The total volume of landfill gas being recovered was 18,361 SCFM.

In late January, the gas-to-energy plant was using 7500 SCFM of recovered landfill gas, 47.0% CH4, 1.1% O2, 58 ppm H2S. The facility was at partial production due to equipment maintenance. Flare 1: 2552 SCFM; Flare 3: 2500 SCFM; Flare 9: shut down; Flare 10: 3976 SCFM; Flare 11: 4468 SCFM. The total volume of landfill gas being recovered was 20,996 SCFM.

In mid-February, the gas-to-energy plant was using 9643 SCFM of recovered landfill gas, 45.0% CH4, 1.6% O2, 46 ppm H2S. The facility was at 100% production. Flare 1: 2416 SCFM; Flare 3: 2010 SCFM; Flare 9: 3387 SCFM; Flare 10: shut down; Flare 11: 2860 SCFM. The total volume of landfill gas being recovered was 20,316 SCFM.

In mid-March, the gas-to-energy plant was using 9706 SCFM of recovered landfill gas, 43.0% CH4, 1.2% O2, 55 ppm H2S. The facility was at 100% production. Flare 1: 2389 SCFM; Flare 3: estimated at 2500 SCFM, not monitored because the road was too wet; Flare 9: 3264 SCFM; Flare 10: shut down; Flare 11: 3287 SCFM. The total volume of landfill gas being recovered was 21,146 SCFM.
In late March, the gas-to-energy plant was using 9156 SCFM of recovered landfill gas, 46% CH4, 1.4% O2, 64 ppm H2S. The facility was at 100% production. Flare 1: 2337 SCFM; Flare 3: 2500 (estimated because the road was still too wet); Flare 9: 3555 SCFM; Flare 10: shut down; Flare 11: 3536 SCFM. The total volume of landfill gas being recovered was 18,747.

During the 1st Quarter, the quantity of landfill gas being recovered has averaged 19,913 SCFM, with the gas-to-energy plant usage averaging 8,973 SCFM. An expansion of the gas-to-energy plant or different beneficial use facility should be evaluated.

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

**T-4 (City)**
Prepare a plot plan ["fire plan"] to the satisfaction of the Fire Department.

- **a. immediate access fire plan** [now]
- **b. plot plan for the future facilities** will be submitted when these are implemented

**Fire Service - 12.03 (County)**
The permittee shall maintain onsite fire response capabilities, construct access road, provide water tanks, water mains, fire hydrants and fire flows and perform brush clearance to the satisfaction of the County Forester and Fire Warden. The landfill will comply with all applicable County codes and ordinances which delineated the requirements for fire access, water mains, fire flows and fire hydrants, specifically defined by the County Fire Department. New construction water tanks, water mains and fire hydrants will be completed to meet the fire flow requirements of the Fire Department.

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

**M-4.1.1(2) (City)**
Areas outside of and above the cut and fill as shown on the conceptual grading plan shall not be graded, except for the development of ancillary facilities or other related improvements. Additional grading may be necessary for slope stability or drainage purposes. Prior to undertaking any grading activities, the Department of Building and Safety shall be notified and approve any additional grading based on engineering studies (in accordance with CCR Title 27) provided by the project proponent and independently evaluated by the Department of Building and Safety.

**M-4.1.1(4) (City)**
Grading that allows for construction of ancillary facilities outside of the landfill footprint or that has the potential to impact property beyond the boundary of the landfill shall be approved by the Department of Building and Safety.

**M-4.1.1(5) (City)**
All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report prepared specifically for the proposed project, including provisions for excavation approved by the Department of Building and Safety, City Engineer, City LEA and other Responsible Agencies.

M-4.1.5(12) (City)
Geologic Hazards - Liquefaction
Alluvium in the canyon bottoms beneath the footprint of the waste containment system and beneath ancillary structures shall be excavated and, if necessary, replaced with compacted structural fill during construction. A qualified geologist shall be onsite during construction activities to observe removal and replacement of alluvium and verify that all alluvium within the landfill footprint has been removed prior to placement of any compacted fill or construction of any containment system elements.

M-4.14.1(155) (City)
Construction of the realigned access roadway shall not exceed 15 percent in grade. An access road shall be constructed and maintained around the working area of the landfill for emergency access for firefighting equipment.

Geology-1.07 (County)
All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report prepared specifically for the proposed Project, including provisions for excavation approved by the County Department of Public Works, the County Local Enforcement Agency (LEA) and other Responsible Agencies.

Current Status/Comments – Future out-of-approved landfill footprint grading is proposed for a Cell CC-4 Part 3 buttress. Grading plans have been submitted to the County Department of Public Works for approval. These plans were approved in March by DPW Civil Engineering and Permitting sections with grading scheduled to start in April 2018. The only grading occurring in this quarter was for maintaining areas of Cell CC-4 Part 1 and 2, and the removal of stockpiled soil for waste cover. These activities are inside the approved landfill footprint.

M-4.1.1(6) (City)
Revegetation and erosion control procedures on all exposed slopes shall be implemented. The erosion controls to be implemented at the site shall include soil stabilization measures and revegetation in accordance with the approved revegetation plan as approved by the City Building and Safety Department. Interceptor ditches shall be designed to divert storm runoff to a sedimentation basin.

M-4.2.11(23) (City)
Disturbed areas shall be revegetated with an interim ground cover as specified in the proposed revegetation program. Excavation will proceed in a manner to reduce the amount of graded areas at any given time.

M-4.2.12 (28) (City)
Site Erosion
c. A temporary vegetation cover shall be established on all slopes that are to remain inactive for a period longer than 180 days.
d. An SCAQMD approved soil stabilization (sealant) product shall be used to retard soil erosion and enhance revegetation. Soil sealant shall be applied when necessary to selected working areas of the landfill. The sealant will also be used as a binder or tackifier to hold seen during revegetation mulch, and fertilizers in-place until grasses become establish and stabilize on the landfill surface.
Geology-1.13 (County)
Revegetation and erosion control of all exposed slopes will be an ongoing process. The erosion controls to be implemented at the site will include soil stabilization measures and revegetation in accordance with the approved Revegetation Program. The installation of interceptor ditches shall be designed for the diversion of storm runoff to sedimentation basins. Sediment traps will be used at points of runoff concentration along the perimeter of exposed slopes surfaces.
Condition: Approval of drainage plan. Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.

Geology-1.14 (County)
To prevent soil erosion on the face of the landfill, interim vegetation measures will be taken after placement of the temporary soil layer (even though the area may be disturbed by future filling operations). Vegetative cover will be placed as in the approved Revegetation Program.
Condition: Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.

Biota – 4.42 (County)
Areas inactive for 180 days or longer will be planted with interim vegetation as approved by County biologist. Records will be kept to track fill areas of the site which are transferred to an inactive status so that appropriate dust control and revegetation measures can be implemented.

Air Quality - 6.02 (County)
Dust Control will also be accomplished through the temporary revegetation of the landfill surface. A temporary revegetation of the landfill surface, and a temporary vegetation cover will be established on all slopes that are to remain inactive for a period longer than 180 days. Specifications of temporary revegetation measures will be provided in the Revegetation Plan submitted to the County biologist for approval, the Closure and Postclosure Maintenance Plans, the Condition Use Permit, and Conditions of Project Approval.

Visual-10.08 (County)
Cover/Revegetation Requirements
The permittee shall comply with the following cover and re-vegetation requirements at the Landfill:
(1) The permittee shall apply a temporary hydroseed vegetation cover on any slope or other Landfill area that is projected to be inactive for a period greater than 180 days, as set forth in the IMP. The permittee shall promptly notify the County LEA and the Department of Public Works of any such slope or area;
Revegetation Requirements
(5) Notwithstanding the foregoing, the permittee shall not be bound by the previous provisions of this Condition No. 44, but instead by the requirements of the County LEA, so long as the Limits of Fill are not exceeded, if in consultation with the Department of Public Works, the County LEA determines that a different re-vegetation design or plan:
(1) would better protect public health and safety;
(2) would enable revegetation of the final slopes at least as well as shown in Exhibit "B" described in subsection D, above; and/or experts, including an independent, qualified bio (3) would be required because the minimum standards adopted by the CIWMB have been amended;
(6) the permittee shall employ an expert or biologist, to satisfy this Condition No. 44. Soil sampling and laboratory analysis shall be conducted in all areas that are required to be re-vegetated before any re-vegetation occurs to identify chemical or physical soil properties that may adversely affect plant
growth or establishment. Soil amendments and fertilizer recommendations shall be applied and plant materials selected, based on the above referenced testing procedures and results. To the extent possible, plant types shall blend with species indigenous to the area, be drought tolerant, and be capable of rapid growth. The selected plants shall not include nonindigenous species that are likely to be invasive of adjacent natural areas.

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

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

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

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

**Current Status/Comments** – During the 1st Quarter, alternatives to hydroseeding on some interim and inactive slopes for slope stability and dust control were being used. Posi-Shell has been applied to slope areas in Cell CC-3A and Cell CC-3B. The installation of Closure Turf has been done on the Cell CC-3A and Cell CC-3B south-facing slopes. These systems have been shown to control dust, erosion and surface emissions in the areas where they were used. Other areas were hydroseeded which included Cell CC-3B south facing slopes, Cell CC-3A top deck, and west and east-facing slopes, and the County bowl area slopes. The CC-3A area was being irrigated.

In mid-February, dust clouds were observed coming from the Old City North top deck, CC-3B top deck, and the County top deck. Landfill service roads were not watered or treated for dust control, and traffic would cause large dust clouds. The Old City South landfill had two HDPE downcomers on the Old City Landfill channel repaired and a new one installed. Dust clouds were observed coming from prior dozer worked areas.

**M-4.1.1 (7) (City)**

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

**Current Status/Comments** – The two old oil well steel casings in the area north of the office site are still covered with stockpiled soil. The lowering of the well casings and permanent abandonment should be done when the stockpiled soil is removed and the final grade elevation for future liner installation is reached. These wells will be uncovered during the development of Cell CC-4 Part 3.

The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site should be reabandoned when the other two wells are reabandoned. No re-abandonment activity has occurred at this location. None of the wells were leaking oils or gas, nor pose a current hazard.
M-4.1.6 / 18 (City)
Survey monuments shall be installed around the perimeters of the outer fill areas at points where they would not be subject to disturbance by landfill development and marking the 500-foot setback from the more restrictive zone. The exact spacing, location, and characteristics of the survey monuments shall be submitted to and approved by the City Local Enforcement Agency (LEA).

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

M-4.2.13/29, 30, 32, 33, 34 (City)
The natural biological processes that generate odors in a landfill through anaerobic decomposition cannot be prevented or avoided. However, the LFGs shall be prevented from escaping to the atmosphere through the use of control measures. These measures include using daily and intermediate cover material over deposited wastes, filling any surface cracks with clean dirt as necessary, and extracting LFG through the use of an LFG collection and recovery system and destroying collected gases by combustion.

Operational techniques shall be utilized to control odor sources at the landfill. The size of the working face shall be limited so that the area of waste exposed to the atmosphere is kept to a minimum. The LFG collection and recovery system shall be installed in phases as each portion of the landfill site is filled. The final system shall contain a network of gas extraction wells, collection system piping, and flaring facilities. Because the LFG generation begins at lower levels of volume and increases during the landfill site life, the gas will be flared initially until sufficient quantities are available for processing into electricity. If an odor problem should develop, appropriate control measures shall be implemented. These measures include the application of additional dirt daily cover material or more frequent application of the cover material to seal the landfill surface, or adjustments to the wells, equipment, and operation of the LFG collection and recovery system.

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

a. Sample Probe Installation: One monitoring probe per 1,000 feet or as identified by South Coast Air Quality Management District (SCAQMD) and/or Local Enforcement Agency (LEA) in the landfill expansion, and one probe per 650 feet or as identified by SCAQMD and/or LEA in the City Inactive landfill along the landfill perimeter, or whichever is more restrictive shall be installed to identify potential areas of subsurface landfill gas (LFG) migration. These probes shall be monitored to ensure that quantities of LFG beyond regulatory standards do not vent offsite through subsurface soils.

b. Integrated Landfill Surface Sampling: The landfill surface shall be monitored to ensure that the average concentration of total organic compounds over the landfill surface does not exceed SCAQMD’s standard of 25 ppm.

c. Ambient Air Samples: 24-hour integrated gas samples and required meteorological data shall be taken to assess any impact the landfill is having on the ambient air quality at the landfill perimeter.

d. Instantaneous Landfill Surface Monitoring: Spot checks on the landfill surface shall be made to determine the maximum concentration of total organic compounds measured as methane, measured at any one point on the surface of the landfill does not exceed the SCAQMD’s standard of 500 ppm.

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

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

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

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

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

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

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

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

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

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

In early January, the monitor drove the Granada Hills neighborhood area from 6:30 to 7:30 a.m. and there were no landfill odors detected. There was a strong odor coming from the top deck of CC-3A. This could be coming from the soil amendment for the revegetation activity.
In late January, the monitor drove the Granada Hills neighborhood areas from 6:45 to 7:30 a.m. and there were no landfill odors detected.

In mid-February, the monitor drove the Granada Hills neighborhood area from 6:30 to 7:15 a.m. and there were no landfill odors detected. Areas of faint and random-frequency gas surface emissions were detected near the irrigation water tank on the top deck of CC-3A.

In mid-March, the monitor drove the Granada Hills neighborhood areas from 6:15 to 7:15 a.m. and there were no landfill odors detected. There were localized liquid odors around gas well 2133 and adjacent soil areas.

In late March, the monitor drove the Granada Hills neighborhood areas from 6:15 to 7:15 a.m. and there were no landfill odors detected. The monitor drove the Granada Hills school area again at 7:45 a.m. and no landfill odors were detected. The monitor also drove the Rancho Cascades neighborhood and no landfill odors were detected. The gas recovery system at the leachate tank farm was not recovering all the vapors. When tanks 1069 and 1081 were receiving liquid, there was a strong localized vapor odor near these tanks. Vapor recovery needs to be increased when filling tanks. Automation of increasing the vacuum during filling should be considered. Down-slope from well 2085 and the tote container, and north of GW-3009D, there was a strong odor that carried for approximately 75 feet. There possibly was a prior liquids spill. The soil surface was treated with a hard polymer-type coating and the odor was being controlled to within a localized area. Odor abatement by soil removal should be considered.

Throughout the 1st Quarter, the use of Posi-Shell and Closure Turf to seal fill areas with intermediate cover provided enhanced gas recovery and gas-related odor control.

M-4.3.1(37) (City)
As development of the site proceeds, surface drainage systems shall be maintained so that surface runoff is diverted away from working slopes and isolated from landfilled refuse. Onsite drainage channels would be designed per CCR, Title 23, Division 3, Chapter 15, Article 3, §2533(C), and County of Los Angeles Public Works Department, Flood Control Division requirements.

Surface Water - 2.03 (County)
As development of the site proceeds, surface drainage systems shall be maintained so that surface runoff is diverted away from working slopes and isolated from landfilled refuse. Onsite drainage channels would be designed per CCR, Title 23, Division 3, Chapter 15, Article 3, §2546(C), which mandates the requirements for a capital storm event (100-year 24-hour precipitation).

M-4.3.1(38) (City)
Permanent bench drainage ditches shall be installed when final cover is placed on completed portions of the landfill. These ditches shall be lined. Temporary unlined drainage facilities consisting of diversion ditches (V-ditches) where necessary shall directly intercept natural surface runoff. Any intermittent channel flow in the existing canyon bottom shall be captured, channeled, and conveyed into a sedimentation basin. Diversion ditches shall convey surface runoff from the undisturbed areas to the permanent perimeter ditches for safe transport around the landfill footprint. Surface covers of various types, from mulches to vegetation, shall be used to retard erosion from areas of disturbance. In addition, areas of disturbance shall be kept at a minimum during active filling operations.

Surface Water - 2.12 (County)
Permanent bench drainage ditches shall be installed when final cover is placed on completed portions of the landfill. These ditches shall be lined. Temporary unlined drainage facilities consisting of diversion ditches (V-ditches) where necessary shall directly intercept natural surface runoff. Any intermittent channel flow in the existing canyon bottom shall be captured, channeled, and conveyed into a sedimentation basin. Diversion ditches shall convey surface runoff from the undisturbed areas to the permanent perimeter ditches for safe transport around the landfill footprint. Surface covers of various types, from mulches to vegetation, shall be used to retard erosion from areas of disturbance. In addition, areas of disturbance shall be kept at a minimum during active filling operations.

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

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. The effectiveness of the erosion control measures being used on the site need to be evaluated and modified for future use. Significant erosion occurred in the landfill area from uncontrolled drainage and ineffective straw wattles. Ponding occurred in numerous areas after every rain event.

In early January, the heavy rain events caused slope erosion and exposed trash on the CC-3A slope next to the western edge of the Closure Turf and on the western slopes of CC-4 Part 2. Slope erosion was observed in some other areas of CC-4 Parts 1 and 2, CC-3A, and CC-3B.

In late January, erosion rills where trash was exposed were repaired. The top deck erosion and drainage gullies of CC-3B were repaired. There were significant erosion rills on the eastern vegetated slopes of CC-3B and CC-3A, and the County top deck and bowl. The straw wattles were not buried when installed and water flowed under them, creating rills.

In mid-February, erosion rills were observed on the slopes above and into the CC-3B basin. There were no lined slope drainage downcomers in this area. Slopes with erosion rills at the back of Cells CC-4 Parts 1 and 2 were sprayed with Posi-Shell to control erosion. HDPE lined downcomer channels were installed on the CC-3A slopes in two areas. The CC-3A dirt slope where it meets the Closure Turf had deep erosion rills due to there being no lined downcomer channel.

In mid-March, there was a significant amount of slope erosion at the western and eastern edges of the Closure Turf and soil interface. The Closure Turf had no apparent impact. The sand on the Turf was washed away in some areas and observed in the terminal basin. The hydroseeded slopes above the Closure Turf had significant erosions rills. The Posi-Shell covered areas had erosion rills where uncontrolled slope drainage occurred.

In late March, the Closure Turf had no apparent problems from the rain events. Erosion that was observed on the western and eastern edges of soil slopes on the prior monitoring was repaired. The Posi-Shell covered areas that were impacted from erosion during prior rain events were being repaired. There were a minimal amount of areas not repaired.

M-4.3.1(39) (City)
As filling operations progress upward in elevation and laterally across the canyon, both permanent and temporary drainage facilities shall be used to provide appropriate drainage protection. The lower elevation portions of the landfill working face shall be placed under final cover as soon as final grade
is attained, and bench ditches shall be installed that will connect to adjacent, permanent perimeter ditches. These ditches shall connect directly to the temporary diversion drainage ditches that will protect the active landfill areas from natural surface runoff.

M-4.18 / 178 (City)
The maximum permitted elevations for the landfill shall not be allowed to be exceeded at any time during landfill development and shall be verified through survey control points.

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

M-4.3.1(40) (City)
In order to monitor the effectiveness of those measures designed to prevent pollution from entering the offsite stormwater system, the project proponent shall be required to apply for coverage under the SWRCB General Construction Activities Stormwater Permit Programs.

M-4.3.1(45) (City)
An erosion control plan would be implemented by the project proponent to prevent stormwater pollution from construction activity. Construction materials, equipment and vehicles would be stored or parked in areas protected from stormwater runoff. Construction material loading and unloading would be in designated areas to minimize any washout due to stormwater runoff. Pre-construction controls would be implemented to include the use of a sandbagging system, including sandbag check dams and sandbag desilting basins, which would be used to limit runoff velocities and minimize sediment in storm water runoff.

Surface Water 2.14 (County)
An erosion control plan would be implemented by the project proponent to prevent stormwater pollution from construction activity. Construction materials, equipment and vehicles would be stored or parked in areas protected from stormwater runoff. Construction material loading and unloading would be in designated areas to minimize any washout due to stormwater runoff. Pre-construction controls would be implemented to include the use of a sandbagging system, including sandbag check dams and sandbag desilting basins, which would be used to limit runoff velocities and minimize sediment in storm water runoff.

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

M-4.3.1(41) (City)
The surface water collection system shall be designed to collect runoff and collect/retain suspended solids. Water leaving the sedimentation basins shall be monitored in accordance with NPDES requirements.

M-4.3.1(43) (City)
Sediment shall be cleaned out of the sedimentation basins after every significant storm.

Surface Water 2.10 (County)
The surface water collection system shall be designed to collect runoff and collect/retain suspended solids. Water leaving the sedimentation basins shall be monitored in accordance with NPDES requirements. Sediment shall be cleaned out of the sedimentation basins after every significant storm.
Current Status/Comments – In early January, the terminal basin had one skimmer riser support break and cause an uncontrolled release of sediment during the January 9th rain event. The riser was being repaired and reinforced. Standing water was observed in the City north liquids handling facility berm area, Basins A and B, and terminal basins. ponding of water was observed over the whole inactive site, and in the CC-4 Part 2 lined drainage berm area. This water was being pumped into trucks and hauled to the sewer connection.

In late January, Basin A had sediment and standing water, Basin B was dry and ready for the next rain event, and the terminal basin had the outlet riser repaired, sediment moved, and only minor areas of standing water.

In mid-February, Basin A had no standing water and sediment was spread for drying. Basin D was dry and had no sediment. Basin B was dry and cleared of sediment.

In mid-March, Basin A had standing water and sediment from the recent rain events; Basin D was dry and had no sediment; Basin B had ponding water and sediment; and the terminal basin had standing water and sediment.

In late March, Basin A had standing water and sediment from the recent rain event; Basin D was dry with no sediment; Basin B had some standing water and sediment; and the terminal basin was near maximum water-holding capacity and had significant sediment.

M-4.3.1(46) (City)
A preventive maintenance program would be implemented by the project proponent, including inspection of facility equipment, systems, and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater. This program applies to the onsite drainage ditches; rip-rap; berms and dikes; dust control; silt fences; diversion grading; and pavement surfaces. Each system and piece of stationary equipment would be inspected monthly. Procedures for inspection would vary, due to the piece of equipment or system. However, the major elements of the inspection program would include checking for cracks or structural failures, inspecting parts or pieces of equipment nonfunctioning, checking for the degradation or deterioration of operating units, and investigating the need for cleaning or emptying units. A summary report of these monitoring results and the corrective actions taken will be disseminated in each newsletter with a more detailed report on the web site and in the annual report.

Surface Water 2.15 (County)
Surface Water Preventive Maintenance Program
A preventive maintenance program will be implemented by the permittee, including inspection of facility equipment, systems, and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater. This program applies to the onsite drainage ditches, rip-rap, berms and dikes, dust control, silt fences, diversion grading, and pavement surfaces. Each system and piece of equipment will be inspected monthly. Procedures for inspection would vary based on the piece of equipment or system. However, the major elements of the inspection program will include checking for cracks or structural failures, inspecting parts or pieces of equipment nonfunctioning, checking for the degradation or deterioration of operating units, and investigating the need for cleaning or emptying units.

Current Status/Comments – A preventative maintenance program with inspection of facility equipment, systems, and 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 should be available for agency and monitor review.

In early January, the eastside drainage channel had an area north of Basin B where the concrete channel wall was spalling. The channel had a significant amount of sediment behind the gabions. The westside concrete channel across the main access road from the CC-3B basin was spalling and lifting. The wall was also cracking as it goes under the roadway. The CC-3B basin had standing water. The low-flow drain was plugged. The terminal basin had one skimmer riser support break and cause an uncontrolled release of sediment during the previous day's rain event. The risers were being repaired and reinforced. The San Fernando Road retaining wall top drainage channel had standing water and significant soil slough down from the hillside. Maintenance should be scheduled for soil removal and unplugging the wall's channel drains.

In late January, the drainage channel along the paved access road to the Flare 9, 10, and 11 sites had the outlet plugged. Basin D outlet channel liner leading edge was lifting and had tumbleweed and sediment under the liner. The eastside drainage channel had significant sediment and litter behind the channel gabions. CC-3B basin's low flow drain was plugged.

In mid-February, the Basin D outlet concrete channel just out of the basin had an approximately six inches-thick layer of sediment for approximately 30 feet, with vegetation growing in it. The inlet to the Basin D lined channel had sediment and tumbleweed under the leading edge of the HDPE liner. The Basin D westside outlet high flow concrete spillway and sidewall were cracked and should be epoxy sealed.

In mid-March, the concrete walkway along the terminal basin's south top access had lifted approximately six inches, possibly due to soil expansion, and had pushed the concrete fence foundation out of the ground. The frontage retaining wall along San Fernando Road had some hillside soil sloughing with areas of the wall's top fence with soils and rock piled against it. Soils were also observed accumulating in front of the wall and along the curb. The V-ditch drains were plugged with soil. The main access road had areas of roadway settling and pavement cracking. The V-ditch concrete channel on the slope above the Flare 1 site was plugged with soil and blocked by vegetation. This channel was not functioning. Basin A had sediment and standing water. Minimal draining was occurring due to sediment blockage of the rock around the outlet risers. The outlet channel also had significant blockage of the drainage pipes under the temporary access road.

In late March, Basin B had standing water covering approximately 40% of the basin. There was no discharge of water due to sediment plugging the outlet riser. Basin A had a significant amount of sediment and standing water. The outlet risers were plugged with sediment and no water was flowing out.

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

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

Current Status/Comments – During the 1st Quarter, the Old City North top deck had a tank farm of 16 Alder storage tanks installed for processing recovered leachate, with a double-wall pipeline to the sewer connect at the entrance near San Fernando Road.

In late March, the gas recovery system at the leachate tank farm was not recovering all the gas vapors. When tanks 1069 and 1081 were receiving liquid, there was a strong localized vapor odor near these tanks. Vapor recovery needs to be increased when filling tanks. Automation of increasing the vacuum during filling should be considered.

M-4.4.1(60) (City)
Venturan Coastal Sage Scrub
A detailed conceptual mitigation plan shall be prepared by the project proponent and contain specific information on planting, maintenance, and monitoring. A revegetation plan that includes Coastal sage scrub restoration can feasibly occur onsite. The implementation of this plan will provide onsite mitigation greater than 1:1 to offset the loss of coastal sage scrub.

Biota - 4.27 (County)
Venturan Coastal Sage Scrub: A detailed conceptual mitigation plan shall be prepared by the permittee and shall contain specific information on planting, maintenance, and monitoring. A revegetation plan that includes coastal sage scrub restoration can feasibly occur onsite. The implementation of this plan will provide onsite mitigation greater than 1:1 to offset the loss of coastal sage scrub.

Current Status/Comments – In early January, the City deck C sage mitigation area was greening up due to the cooler weather and moisture. No maintenance work appeared to have been done. The PM-10 berm oak trees were doing well, greening up and growing. The Deck B sage mitigation area was graded and survey staked were placed. No planting activity had occurred.

In late January, the portion of the County sage mitigation area that had been covered with jute netting and hydroseed held up to the rains, with no erosion seen, and were greening up with vegetation.

In mid-February, no sage maintenance was done in the Deck C area. A new monitoring trailer was being installed on Deck C. No sage planting was done in Deck B. All preliminary grading had been done. The portion of the County sage area that had been covered with jute netting and hydroseeded were greening up with vegetation. This is approximately 25% of the sage area. The remaining area had deep erosion rills and sediment accumulated in the westside channel below the rills.

In mid-March, the County sage area that had been hydroseeded had germinated, and vegetation was growing. The jute netting performed well. The area not covered with jute netting had increased erosion and soil sloughing into the westside drainage channel.

In late March, the Deck C sage mitigation area was doing well. Non-native removal and cut-back of salt bush in some areas should be done soon. The City Deck B sage mitigation area was staked and ready for final contouring, seeding, and planting.
M-4.4.2/69 (City)
Potential candidate mitigation sites have been identified by the project proponent in conjunction with resource agencies for consideration to compensate for impacts on riparian and wetland resources as a result of project development. These sites include Bull Creek, Bee Canyon and East Canyon, which are located proximate to the project site. Prior to the development of any detailed mitigation plans and drawings, the final selection will be determined cooperatively by the CDFW, Corps, SWRCB, and other regulatory agencies in conjunction with the City and project proponent.

Current Status/Comments – During the 1st Quarter, the MND Addendum environmental document for the Chatsworth Reservoir Wetland/Riparian Mitigation Project required a Native American Resources and Impact Analysis with consultation with the Chumash. The analysis was completed in late March 2018, and requirements/mitigation measure recommended. The MND Addendum is now being modified to include the Native American analysis. The City of Los Angeles is preparing a draft ordinance.

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 servicer for areas within one mile of the project site. The phone number where this service will be requested will be provided in the quarterly newsletter and on the web site.

Current Status/Comments – In early January, the monitor drove San Fernando Road and Sierra Highway and did not observe any illegal dumping nor windblown litter. A packer truck on the main access road was blowing litter out of the top of the truck.

In mid-March, there was illegally dumped trash and a couch observed on Sierra Highway north of the I-14 overpass.

In late March, illegal dumping was observed on Sierra Highway near the I-14 overpass. A door and wood debris were seen on San Fernando Road, south of the Jenson Filtration Plant entrance.

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 2018, the south oil field gate and north perimeter gate were observed to be locked.

M-4.19.2(191) (City)
Prior to the commencement of initial earth excavation, specific sections of the City/County Landfill Project area shall be resurveyed as a precautionary measure to minimize potential loss of undiscovered paleontological resources. Specific sections of the project area to be resurveyed shall be as determined by the intended cut-and-fill areas proposed for landfill development. As new areas for
excavation are identified by the project proponent, an evaluation of those areas shall be made based on the prior survey results and consultation with appropriate technical specialists.

**Ecological Significance 62 (County)**
The Permittee shall develop and implement a program to identify and conserve all significant archaeological and paleontological materials found onsite pursuant to Part VII of the IMP. If the Permittee finds any evidence of aboriginal habitation or fossils during earthmoving activities, Landfill operations shall immediately cease in that immediate area, and the evidence and area shall be preserved until a qualified archaeologist or paleontologist, as appropriate, makes a determination as to the significance of the evidence. If the determination indicates that the archaeological or paleontological resources are significant, the resources shall be recovered to the extent practicable prior to resuming Landfill operations in that immediate area of the Landfill.

**Current Status/Comments** – Throughout the 1st Quarter of 2018, a paleontologist was monitoring grading activities in and adjacent to Cell CC-4 Part 2 and Part 3 construction when grading in native, undisturbed areas.

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

a) Current Fill Sequence Plan.

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

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

d) The current erosion control plans.

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

f) A plan/ report of the liner interceptor ditches design/ installation to ensure that surface runoff is appropriately conveyed to the existing flood control channel directly east of the project site entrance.

g) Comprehensive geotechnical reports.

h) A preventative maintenance plan and summary of monitoring reports of inspections of facility equipment, systems and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater.
Conclusions

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

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

The 2018 First Quarter Mitigation Monitoring Summary spreadsheets track the progress and completion of tasks as they were accomplished during this quarterly period.
<table>
<thead>
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<th>Line #</th>
<th>Reference #</th>
<th>Mitigation #</th>
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Sunshine Canyon Landfill City Mitigation Monitoring Summary (01-01-2018 through 03-31-2018)

### First Quarter 2018

- **M - 4.5.2 83** Landfill Hours info [Status: Further Review Needed/Comments: Resolved]
  - 10/26/2017
  - 11/7/2017
  - 11/21/2017
  - 12/12/2017
  - 1/10/2018
  - 1/30/2018
  - 2/20/2018
  - 3/14/2018
  - 3/29/2018

- **M - 4.9.1 90** Refuse Inspection Program ongoing [Status: Further Review Needed/Comments: Resolved]
  - 2/28/2018

- **M - 4.9.4 115** Safety Inspections/Checklists ongoing [Status: Further Review Needed/Comments: Resolved]
  - 3/14/2018
  - 3/29/2018

- **M - 4.14.1 147** Fire Response Capabilities ongoing [Status: Further Review Needed/Comments: Resolved]
  - 3/14/2018
  - 3/29/2018

- **M - 4.19.1 183** Archaeological Reserve info [Status: Further Review Needed/Comments: Resolved]
  - 3/14/2018
  - 3/29/2018

- **M - 4.19.1 184** Onsite Archaeologist [Status: Further Review Needed/Comments: Resolved]
  - 3/14/2018
  - 3/29/2018

- **M - 4.19.1 185** Archaeological Resources ongoing [Status: Further Review Needed/Comments: Resolved]
  - 3/14/2018
  - 3/29/2018

### Fourth Quarter 2017

- **M - 4.5.2 84** Landfill Equipment-Noise Reduction ongoing [Status: Further Review Needed/Comments: Resolved]
  - 11/21/2017

- **M - 4.3.2 53** Groundwater Monitoring Wells ongoing [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

- **M - 4.3.2 58** Operation as Class III Landfill ongoing [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

- **M - 4.3.2 59** Underground Fuel Storage ongoing [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

- **M - 4.9.1 91** Hazardous Waste Load-Checking status [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

- **M - 4.9.1 93** Hazardous Waste Detection Training status [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

- **M - 4.9.1 94** Spill Response Program status [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

- **M - 4.9.4 118** Accident/Injury reports, Inspections status [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

- **M - 4.9.4 121** Fire Prevention Plan ongoing [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

- **M - 4.9.4 123** Personal Protective Equipment ongoing [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

- **M - 4.9.4 124** Site Access/Fencing ongoing [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

- **M - 4.14.1 146** Fire Response Capabilities ongoing [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

- **M - 4.19.1 185** Archaeological Resources ongoing [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

- **M - 4.19.1 186** Archaeological Resources ongoing [Status: Further Review Needed/Comments: Resolved]
  - 12/12/2017

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## Sunshine Canyon Landfill County Mitigation Monitoring Summary
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* See Appendix I for Comments
* Checkmark = Condition or mitigation was monitored
* Yearly or non-ongoing monitoring frequency
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## Sunshine Canyon Landfill County Mitigation Monitoring Summary

(01-01-2018 through 03-31-2018)

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(01-01-2018 through 03-31-2018)

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<tr>
<td>287</td>
<td></td>
<td></td>
<td>Archeological Resource Curation</td>
<td>ongoing</td>
</tr>
</tbody>
</table>

### Potential Tasks

- Landfill Capacity - 24: 24
- Air Quality - 51: 51

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

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Appendix I
Further Review Needed Comments: Reference I-a through I-e
First Quarter 2018 Site Visits
<table>
<thead>
<tr>
<th>Discipline</th>
<th>City Condition Reference # / Mitigation #</th>
<th>County Condition Reference # / Mitigation #</th>
<th>Responsible Agency</th>
<th>Further Review Needed – Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Manager</td>
<td>Q - B.2.c</td>
<td>City Planning</td>
<td></td>
<td>I-a through I-c: The buttress design plans and engineering documents to support Cell CC-4 Part 3 adjacent native slopes were under review by the County Department of Public Works Civil Engineering and Permitting sections. The buttress is outside of the prior-approved landfill footprint.</td>
</tr>
<tr>
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<td>I-d through I-e: The buttress design and engineering documents were approved by the County Department of Public Works. A biological survey for plants and animals has been performed. No plants or animals of special concern were found. Grading is estimated to start in mid-April pending weather conditions. A counting of oaks and Douglas fir trees and a survey for nesting birds will be done before grubbing.</td>
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<td>I-a: Cell CC-4 Part 1 was accepting waste, with three tippers operating. CC-4 Part 2 was not active. Deep erosion rills were observed on the west-facing slopes below the CC-4 Part 1 deck.</td>
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<tr>
<td></td>
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<td>I-b: Cells CC-4 Part 1 and Part 2 were accepting waste. All areas with deep erosion rills where trash was previously exposed were repaired.</td>
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<td>I-c: Cells CC-4 Part 1 and Part 2 were active and accepting waste. Slopes with erosion rills at the back of Cells CC-4 Parts 1 and 2 were sprayed with Posi-Shell to control erosion.</td>
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<tr>
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<td>I-d: Cell CC-4 Part 1 was accepting waste; CC-4 Part 2 was not operating. Ponded water was observed in the CC-4 Part 2 lined channel. The water topped the lined channel on the northern and western sides. A pond of water was observed at the base of the west-facing stockpile soils slope in CC-3A.</td>
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<td>I-e: Cells CC-4 Parts 1 and 2 were accepting waste.</td>
</tr>
<tr>
<td>Geology - 1.07</td>
<td>County DPW EPD/SCL-LEA</td>
<td></td>
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<td>I-a through I-e: See Q - B.2.c above.</td>
</tr>
<tr>
<td>Geology - 1.12</td>
<td>County DPW EPD/SCL-LEA</td>
<td></td>
<td></td>
<td>I-a through I-e: See Q - B.2.c above.</td>
</tr>
<tr>
<td>Q - C.3.h</td>
<td>City Planning</td>
<td></td>
<td></td>
<td>I-a through I-e: There are numerous dirt access roads that are used daily, but infrequently. When used, blowing dust is a concern. The use of a soil sealant or limiting the use of dirt roads to those that are watered should be considered. The use of a soil sealant on temporary construction roads should be evaluated. The use of water trucks was not effective in controlling dust on these roads.</td>
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<td>I-c: Dust clouds were observed coming from the Old City North top deck, CC-3B top deck, and the County top deck. Landfill service roads were not watered or treated for dust control and traffic would cause large dust clouds.</td>
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<tr>
<td>Discipline</td>
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</table>
| Project Manager | Q - C.10.c | City Planning | I-a: The gas-to-energy plant was using 8862 SCFM of recovered landfill gas, 46% CH4, 1.1% O2, 56 ppm H2S. Flare 1: 2448 SCFM; Flare 3: shut down; Flare 9: shut down; Flare 10: 3107 SCFM; Flare 11: 2708 SCFM. The total volume of landfill gas being recovered was 18,361 SCFM.  
I-b: The gas-to-energy plant was using 7500 SCFM of recovered landfill gas, 47.0% CH4, 1.1% O2, 58 ppm H2S. The facility was at partial production due to equipment maintenance. Flare 1: 2552 SCFM; Flare 3: 2500 SCFM; Flare 9: shut down; Flare 10: 3976 SCFM; Flare 11: 4468 SCFM. The total volume of landfill gas being recovered was 20,996 SCFM.  
I-c: The gas-to-energy plant was using 9643 SCFM of recovered landfill gas, 45.0% CH4, 1.6% O2, 46 ppm H2S. The facility was at 100% production. Flare 1: 2416 SCFM; Flare 3: 3010 SCFM; Flare 9: 3387 SCFM; Flare 10: shut down; Flare 11: 2860 SCFM. The total volume of landfill gas being recovered was 20,316 SCFM.  
I-d: The gas-to-energy plant was using 9706 SCFM of recovered landfill gas, 43.0% CH4, 1.2% O2, 55 ppm H2S. The facility was at 100% production. Flare 1: 2389 SCFM; Flare 3: estimated at 2500 SCFM, not monitored because the road was too wet; Flare 9: 3264 SCFM; Flare 10: shut down; Flare 11: 3287 SCFM. The total volume of landfill gas being recovered was 21,146 SCFM.  
I-e: The gas-to-energy plant was using 9156 SCFM of recovered landfill gas, 46% CH4, 1.4% O2, 64 ppm H2S. The facility was at 100% production. Flare 1: 2337 SCFM; Flare 3: estimated at 3555 SCFM; Flare 10: shut down; Flare 11: 3536 SCFM. The total volume of landfill gas being recovered was 18,747.  
I-a through I-e: The quantity of landfill gas being recovered during the 1st Quarter has averaged 19,913 SCFM, with the gas-to-energy plant usage averaging 8973 SCFM. An expansion of the gas-to-energy plant or different beneficial use facility should be evaluated. |
| Odor/Landfill Gas - 7.07 | County Planning/SCAQMD SCL-LEA |  | I-a through I-e: See Q - C.10.c above. |
| Gas - 52 | County DPW EPD/SCL-LEA County Forester Fire Warden |  | I-a through I-e: See Q - C.10.c above. |
| T-4 | City Planning  
City Fire Department |  | I-a through I-e: An updated fire plan showing the new locations of all facilities and emergency egress should be prepared and sent to the local City Fire Department station and City and County Planning when construction of the new operation’s facilities currently under construction have been completed. Emergency egress should be posted for employees and customers. 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. |
<p>| Fire Service - 12.03 | County DPW EPD/SCL-LEA County Forester Fire Warden |  | I-a through I-e: See T-4 above. |</p>
<table>
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<tr>
<th>Discipline</th>
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</thead>
<tbody>
<tr>
<td>Project Manager</td>
<td>M - 4.1.1 / 7</td>
<td>City Planning, DOGGR</td>
<td>I-a through I-e: The two old oil well steel casings in the area north of the office site are still covered with stockpiled soil. The lowering of the well casings and permanent abandonment should be done when the stockpiled soil is removed and the final grade elevation for future liner installation is reached. These wells will be uncovered during the development of Cell CC-4 Part 3. The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site should be reabandoned when the other two wells are reabandoned. No re-abandonment activity has occurred at this location. None of the wells were leaking oils or gas, nor pose a current hazard.</td>
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<tr>
<td>Re-abandonment Procedures</td>
<td></td>
<td>City Planning, County DPW EPD/SCL-LEA, DOGGR</td>
<td>I-a through I-e: See M - 4.1.1 / 7 above.</td>
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<tr>
<td>M - 4.2.12 / 28</td>
<td></td>
<td>City Planning / SCAQMD</td>
<td>I-a through I-e: Alternatives to hydroseeding on some interim and inactive slopes for slope stability and dust control were being used. Posi-Shell has been applied to slope areas in Cell CC-3A and Cell CC-3B. The installation of Closure Turf has been done on the Cell CC-3A and Cell CC-3B south-facing slopes. These systems have been shown to control dust, erosion and surface emissions in the areas where they were used. Other areas were hydroseeded which included Cell CC-3B south facing slopes, Cell CC-3A top deck and west and east-facing slopes, and the County bowl area slopes. The CC-3A area was being irrigated. I-c: Dust clouds were observed coming from the Old City North top deck, CC-3B top deck, and the County top deck. Landfill service roads were not watered or treated for dust control and traffic would cause large dust clouds. The Old City South landfill had two HDPE down comers on the Old City Landfill channel repaired and a new one installed. Dust clouds were observed coming from prior dozer worked areas.</td>
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<tr>
<td>Fugitive Dust - 45.F</td>
<td></td>
<td>County DPH/County LEA County DPW-EPD County Biologist</td>
<td>I-a through I-e: See M - 4.2.12 / 28 above.</td>
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<tr>
<td>M - 4.2.13/ 29, 30, 32, 34</td>
<td></td>
<td>City Planning / SCL-LEA / SCAQMD</td>
<td>I-a through I-e: Compliance with these mitigation measures, concerning landfill gas monitoring and odor control and detection, is being monitored by a multi-agency team led by the SCAQMD. Only obvious gas emission sources, odorous operations related to gas and/or gas and landfill liquids, lack of cover, or exposed trash resulting in odor observed during the monitoring visit are reported.</td>
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<tr>
<td>Amendment 45.N-4.a, 4.c, 4.d</td>
<td></td>
<td>County DPW-EPD</td>
<td>I-a through I-e: See M-4.2.13 / 29, 30, 32, 34 above.</td>
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<tr>
<td>Amendment 45.N-5</td>
<td></td>
<td>County DPW-EPD</td>
<td>I-a through I-e: See M-4.2.13 / 29, 30, 32, 34 above.</td>
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</table>
| Project Manager | M - 4.2.13 / 33 | City Planning/SCAQMD | I-a: The monitor drove the Granada Hills neighborhood area from 6:30 to 7:30 a.m. and there were no landfill odors detected. There was a strong odor coming from the top deck of CC-3A. This could be coming from the soil amendment for the revegetation activity.  
I-b: The monitor drove the Granada Hills neighborhood areas from 6:45 to 7:30 a.m. and there were no landfill odors detected.  
I-c: The monitor drove the Granada Hills neighborhood area from 6:30 to 7:15 a.m. and there were no landfill odors detected. Areas of faint and random frequency gas surface emission were detected near the irrigation water tank on the top deck of CC-3A.  
I-d: The monitor drove the Granada Hills neighborhood areas from 6:15 to 7:15 a.m. and there were no landfill odors detected. There were localized liquid odors around the gas well 2133 and adjacent soil areas.  
I-e: The monitor drove the Granada Hills neighborhood areas from 6:15 to 7:15 a.m. and there were no landfill odors detected. The monitor drove the Granada Hills school area again at 7:45 a.m. and no landfill odors were detected. The gas recovery system at the leachate tank farm was not recovering all the vapors. When tanks 1069 and 1081 were receiving liquid, there was a strong localized vapor odor near these tanks. The vapor recovery needs to be increased when filling tanks. Automation of increasing the vacuum during filling should be considered. Down-slope from well 2085 and the tote container and north of GW-3009D, there was a strong odor that carried for approximately 75 feet. There possibly was a prior liquids spill. The soil surface was treated with a hard polymer-type coating and the odor was being controlled to a localized area. Odor abatement by soil removal should be considered.  
I-a through I-e: The use of Posi-Shell and Closure Turf to seal fill areas with intermediate cover provided enhanced gas recovery and gas-related odor control. |
<p>| Odor/Landfill Gas - 7.06 | County DPW-EPD/SCL-LEA/SCAQMD | I-a through I-e: See M-4.2.13/33 above. |
| Amendment 45.N - 4.a, 4.c, 4.d | County DPW-EPD | I-a through I-e: See M-4.2.13/29, 30, 32, 33, and 34 above. |
| Amendment 45.N - 5 | County DPW-EPD | I-a through I-e: See M-4.2.13/29, 30, 32, 33, and 34 above. |</p>
<table>
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</thead>
<tbody>
<tr>
<td><strong>Project Manager</strong></td>
<td>Surface Water - 2.15</td>
<td>County DPW EPD/ LARWQCB, SCL - LEA</td>
<td></td>
<td>I-a through I-e: 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 should be available for agency and monitor review.</td>
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<td>I-a: The eastside drainage channel had an area north of Basin B where the concrete channel wall was spalling. The channel had a significant amount of sediment behind the gabions. The westside concrete channel across the main access road from the CC-3B basin was spalling and lifting. The wall was also cracking as it goes under the roadway. The CC-3B basin had standing water. The low-flow drain was plugged. The terminal basin had one skimmer riser support break and cause an uncontrolled release of sediment during the previous day’s rain event. The risers were being repaired and reinforced. The San Fernando Road retaining wall top drainage channel had standing water and significant soil slough down from the hillside. Maintenance should be scheduled for soil removal and unplugging the wall’s channel drains.</td>
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<td>I-b: The drainage channel along the paved access road to the Flare 9, 10, and 11 site had the outlet plugged. Basin D outlet channel liner leading edge was lifting and had tumbleweed and sediment under the liner. The eastside drainage channel had significant sediment and litter behind channel gabions. GC-3B basin's low flow drain was plugged.</td>
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<td>I-c: The Basin D outlet concrete channel just out of the basin had approximately six inches thick layer of sediment for approximately 30 feet, with vegetation growing in it. The inlet to the Basin D lined channel had sediment and tumbleweed under the leading edge of the HDPE liner. The Basin D westside outlet high flow concrete spillway and sidewall was cracked and should be epoxy sealed.</td>
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<td>I-d: The concrete walkway along the terminal basin’s south top access had lifted approximately six inches, possibly due to soil expansion, and had pushed the concrete fence foundation out of the ground. The frontage retaining wall along San Fernando Road had some hillside soil sloughing with areas of the wall’s top fence with soils and rock piled against it. Soils were also observed accumulating in front of the wall and along the curb. The v-ditch drains were plugged with soil. The main access mad had areas of roadway settling and pavement cracking. The v-ditch concrete channel on the slope above the Flare 1 site was plugged with soil and blocked by vegetation. This channel was not functioning. Basin A had sediment and standing water. Minimal draining was occurring due to sediment blockage of the rock around the outlet risers. The outlet channel also had significant blockage of the drainage pipes under the temporary access road.</td>
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<td>I-e: Basin B had standing water covering approximately 40% of the basin. There was no discharge of water due to sediment plugging the outlet riser. Basin A had a significant amount of sediment and standing water. The outlet risers were plugged with sediment and no water was flowing out.</td>
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<td><strong>M - 4.4.2/ 69</strong> City Planning</td>
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<td>Biota - 4.4.3 CDFW</td>
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</tbody>
</table>
| Project Manager  | M - 4.9.3 / 110                          |                                             | City Planning/City LEA      | I-a: The monitor drove San Fernando Road and Sierra Highway and did not observe any illegal dumping nor windblown litter. A packer truck on the main access road was blowing litter out of the top of the truck.  
I-d: There was illegally dumped trash and a couch observed on Sierra Highway north of the I-14 overpass.  
I-e: Illegal dumping was observed on Sierra Highway near the I-14 overpass. A door and wood debris was seen on San Fernando Road, south of the Jenson Filtration Plant entrance. |
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Civil and Geotechnical Engineer</td>
<td>M - 4.1.1 / 2</td>
<td>City Building and Safety</td>
<td>City Planning</td>
<td>1-a through I-e: See M - 4.1.1 / 5 below.</td>
</tr>
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<td>M - 4.1.1 / 4</td>
<td>City Planning/LARWQCB</td>
<td>Cal Recycle</td>
<td>1-a through I-e: See M - 4.1.1 / 5 below.</td>
</tr>
<tr>
<td></td>
<td>M - 4.1.1 / 5</td>
<td>City Planning/LARWQCB</td>
<td>Cal Recycle</td>
<td>1-a through I-e: Future out-of-approved landfill footprint grading is proposed for a Cell CC-4 Part 3 buttress. Grading plans have been submitted to the County Department of Public Works for approval. These plans are under review by DPW Civil Engineering and Permitting sections. The only grading occurring in this quarter was for maintaining areas of Cell CC-4 Part 1 and 2 and the removal of stockpiled soil for waste cover. These activities are inside the approved landfill footprint.</td>
</tr>
<tr>
<td></td>
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<td>Geology - 1.07</td>
<td>County DPW EPD/County LEA</td>
<td>1-a through I-e: See M - 4.1.1 / 5 above.</td>
</tr>
<tr>
<td></td>
<td>M - 4.1.5 / 12</td>
<td>City Planning/LARWQCB</td>
<td>Cal Recycle</td>
<td>1-a through I-e: See M - 4.1.1 / 5 above.</td>
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<tr>
<td></td>
<td>M - 4.1.6 / 18</td>
<td>City Planning/LARWQCB</td>
<td>Cal Recycle</td>
<td>1-a through I-e: The landfill perimeter boundary survey PVC marker pipes have been removed in areas where Edison pole grading took place, as well as near the Flare 11 site pad grading. These boundary markers have not been replaced. All markers should be replaced once the Cell CC-4 Part 3 landslide buttress is installed.</td>
</tr>
<tr>
<td></td>
<td>M - 4.14.1 / 155</td>
<td>City Planning/Cal Recycle</td>
<td>PW-BOE LADBS</td>
<td>1-a through I-e: Access roads were being maintained around the working area for emergency access.</td>
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<td>City LEA</td>
<td>1-a through I-e: Access roads were being maintained around the working area for emergency access.</td>
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<tr>
<td></td>
<td>M - 4.18 / 178</td>
<td>City Planning/City LEA</td>
<td></td>
<td>1-a through I-e: A map showing areas that are at the final elevations and which should have final cover should be available for review. Documents showing current filled elevations should also be available onsite for review. These conditions were not monitored.</td>
</tr>
<tr>
<td></td>
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<td>Visual - 10.01</td>
<td>County DPW EPD/LARWQCB</td>
<td>1-a through I-e: See M - 4.18 / 178 above.</td>
</tr>
<tr>
<td>Discipline</td>
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<tr>
<td>Hydrologist</td>
<td>M - 4.3.1/ 37, 38</td>
<td>City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE</td>
<td>I-a through I-e: Surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas, and most conveyance V-ditches were unlined. The effectiveness of the erosion control measures being used on the site need to be evaluated and modified for future use. Significant erosion occurred in the landfill area from uncontrolled drainage and ineffective straw wattles. Ponding occurred in numerous areas after every rain event. I-a: The heavy rain events cause slope erosion and exposed trash on the CC-3A slope next to the western edge of the Closure Turf and on the western slopes of CC-4 Part 2. Slope erosion was observed in some other areas of CC-4 Parts 1 and 2, CC-3A, and CC-3B. I-b: Erosion rills where trash was exposed were repaired. The top deck erosion and drainage gullies of CC-3B were repaired. There were significant erosion rills on the eastern vegetated slopes of CC-3B and CC-3A and the County top deck and bowl. The straw wattles were not buried when installed and water flowed under them, creating rills. I-c: Erosion rills were observed on the slopes above and into the CC-3B basin. There were no lined slope drainage downcomers in this area. Slopes with erosion rills at the back of Cells CC-4 Parts 1 and 2 were sprayed with Posi-Shell to control erosion. HDPE lined downcomer channels were installed on the CC-3A slopes in two areas. The CC-3A dirt slope where it meets the Closure Turf had deep erosion rills due to there being no lined downcomer channel. I-d: There was a significant amount of slope erosion at the western and eastern edges of the Closure Turf and soil interface. The Closure Turf had no apparent impact. The sand on the Turf was washed away in some areas and observed in the terminal basin. The hydroseeded slopes above the Closure Turf had significant erosions rills. The Posi-Shell covered areas had erosion rills where uncontrolled slope drainage occurred. I-e: The Closure Turf had no apparent problems from the rain events. Erosion that was observed on the western and eastern edges of soil slopes on the prior monitoring was repaired. The Posi-Shell covered areas that were impacted from erosion during prior rain events were being repaired. There were a minimal amount of areas not repaired.</td>
<td></td>
</tr>
<tr>
<td>Surface Water - 2.03</td>
<td>County DPW EPD/ LARWQCB SCL-LEA</td>
<td>I-a through I-e: See M - 4.3.1/ 37, 38 above.</td>
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<tr>
<td>Surface Water - 2.12</td>
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<tr>
<td>M - 4.3.1 / 39</td>
<td>City Planning/LARWQCB CalRecycle</td>
<td>I-a through I-e: See M - 4.3.1/ 37, 38 above.</td>
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<tr>
<td>M - 4.3.1 / 40</td>
<td>City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS</td>
<td>I-a through I-e: See M - 4.3.1/ 37, 38 above.</td>
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</tr>
</tbody>
</table>
| Hydrologist | M - 4.3.1 / 43 | City Planning/ LARWQCB CaRecycle SCL-LEA PW-BOE LADBS | I-a: The terminal basin had one skimmer riser support break and cause an uncontrolled release of sediment during the January 9th rain event. The riser were being repaired and reinforced. Standing water was observed in the City north liquids handling facility berm area, Basins A and B, and terminal basins. Ponding of water was observed over the whole inactive site, and in the CC-4 Part 2 lined drainage berm area. This water was being pumped into trucks and hauled to the sewer connection.  
I-b: Basin A had sediment standing water, Basin B was dry and ready for the next rain event, and the terminal basin had the outlet riser repaired, sediment moved, and only minor areas of standing water.  
I-c: Basin A had no standing water and sediment was spread for drying. Basin D was dry and had no sediment. Basin B was dry and cleared of sediment.  
I-d: From the recent rain events, Basin A had standing water and sediment; Basin D was dry and had no sediment; Basin CC-3B had ponding water and sediment; the terminal basin had standing water and sediment.  
I-e: From the recent rain event, Basin A had standing water and sediment; Basin D was dry with no sediment; Basin B had some standing water and sediment; and the terminal basin was near maximum water holding capacity and had significant sediment. |
| Hydrologist | M - 4.3.1 / 45 | City Planning/ LARWQCB CaRecycle SCL-LEA PW-BOE LADBS | I-a through I-e: Surface Water - 2.14 above. |
| Hydrologist | M - 4.3.1 / 46 | City Planning/ LARWQCB CaRecycle PW-BOE | I-a through I-e: See 2.15 above. |
| Hydrologist | M - 4.3.2 / 50 | City Planning/ LARWQCB CaRecycle SCL-LEA | I-a through I-e: The Old City North top deck has a tank farm of 16 Alder storage tanks for processing recovered leachate with a double wall pipeline to the sewer connect at the entrance near San Fernando Road  
I-e: The gas recovery system at the leachate tank farm was not recovering all the gas vapors. When tanks 1069 and 1081 were receiving liquid, there was a strong localized vapor odor near these tanks. The vapor recovery needs to be increased when filling tanks. Automation of increasing the vacuum during filling should be considered. |
<p>| Biologist | M - 4.1.1 / 6 | City Planning/ LARWQCB CaRecycle SCL-LEA LADBS | I-a through I-e: See M - 4.2.12 / 28 above. |</p>
<table>
<thead>
<tr>
<th>Discipline</th>
<th>City Condition Reference # / Mitigation #</th>
<th>County Condition Reference # / Mitigation #</th>
<th>Responsible Agency</th>
<th>Further Review Needed – Comments</th>
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</thead>
<tbody>
<tr>
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<td>Geology - 1.14</td>
<td>LARWQCB/County Forester</td>
<td>I-a through I-e: See M - 4.2.12 / 28 above.</td>
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<td>M - 4.2.11 / 23</td>
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<td>City Planning</td>
<td>I-a through I-e: See M - 4.2.12 / 28 above.</td>
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<td>County DPW EPD/County Forester LARWQCB</td>
<td>I-a through I-e: See M - 4.2.12 / 28 above.</td>
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<td>M - 4.2.12</td>
<td>Revegetation - 44.A</td>
<td>SCL-LEA/County Planning</td>
<td>I-a through I-e: See M - 4.2.12 / 28 above.</td>
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<td>Revegetation - 44.F</td>
<td>SCL-LEA/County Planning</td>
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<td>Biota - 4.42</td>
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<td>SCL-LEA</td>
<td>I-a through I-e: See M - 4.2.12 / 28 above.</td>
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<td>Air Quality - 6.02</td>
<td>SCAQMD/ SCL-LEA</td>
<td>I-a through I-e: See M - 4.2.12 / 28 above.</td>
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<td>Visual - 10.08</td>
<td></td>
<td>County Forester</td>
<td>I-a through I-e: See M - 4.2.12 / 28 above.</td>
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<tr>
<td>M - 4.4.1 / 60</td>
<td>City Planning</td>
<td>I-a: City deck C sage mitigation area was greening up due to the cooler weather and moisture. No maintenance work appeared to have been done. The PM-10 berm Oak trees were doing well, greening up and growing. The Deck B sage mitigation was graded and survey staked were placed. No planting activity had occurred.</td>
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<tr>
<td>I-b: The portion of the County sage area that had been covered with jute netting and hydroseeded held up to the rains, with no erosion seen and were greening up with vegetation.</td>
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<td>I-c: No sage maintenance was done in the Deck C area. A new monitoring trailer was being installed on Deck C. No sage planting was done in Deck B. All preliminary grading had been done. The portion of the County sage area that had been covered with jute netting and hydroseeded were greening up with vegetation. This is approximately 25% of the sage area. The remaining area had deep erosion rills and sediment accumulated in the westside channel below the rills.</td>
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<tr>
<td>I-d: The County sage area that had been hydroseeded had germination and vegetation was growing. The jute netting performed well. The area not covered with jute netting had increased erosion and soil sloughing into the westside drainage channel.</td>
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<tr>
<td>I-e: The Deck C sage mitigation area was doing well. Non-native removal and cut-back of salt bush in some areas should be done soon. The City Deck B sage mitigation area was staked and ready for final contouring, seeding, and planting.</td>
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<tr>
<td>Biota - 4.27</td>
<td>County LEA/CDFW</td>
<td>I-a through I-e: See M - 4.4.1 / 60 above.</td>
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<td>Biota - 4.10</td>
<td>County LEA/CDFW</td>
<td>I-a through I-e: See M - 4.4.1 / 60 above.</td>
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<tr>
<td>M - 4.9.4 / 121</td>
<td>City Planning/Cal Recycle Cal 05HA LAFD City LEA</td>
<td>I-a through I-e: No Big Cone Fir mitigation trees were monitored this quarter.</td>
<td></td>
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<tr>
<td>Discipline</td>
<td>City Condition Reference # / Mitigation #</td>
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<tr>
<td>Biologist</td>
<td>M-4.9.4/125</td>
<td>City Planning/CalRecycle/Cal OSHA/SC-LEA</td>
<td>I-a through I-e: Throughout the 1st Quarter of 2018, the south oil field gate and north perimeter gate were observed to be locked.</td>
<td></td>
</tr>
<tr>
<td>Paleontologist</td>
<td>M-4.19.2/191</td>
<td>City Planning</td>
<td>I-a through I-e: The paleontologist was monitoring grading activities in and adjacent to Cell CC-4 Part 2 and Part 3 construction when grading in native, undisturbed areas.</td>
<td></td>
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<tr>
<td></td>
<td>Ecological Significance 62</td>
<td>County Planning</td>
<td>I-a through I-e: See M-4.19.2/191 above.</td>
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Appendix II
Relevant Site Photos
Independent Monitor Quarterly Report

Sunshine Canyon Landfill

Legend
- Sunshine Canyon Landfill Boundary per Republic
- Photo Location

Key Map
- Project Location

Photo Locations

Disclaimer: Representations on this map or illustration are intended only to indicate locations of project parameters reported in the legend. Project parameter information supplied by others may not have been independently verified for accuracy by UltraSystems Environmental, Inc. This map or illustration should not be used for, and does not replace, final grading plans or other documents that should be professionally certified for development purposes.

Path: J:\Projects\S800_Sunshine_Canyon\MXDs\Photos\locations\S800_Sunshine_Canyon_PhotosLocs_2017_Qtrly_Report.v3.mxd
Service Layer Credits: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NAVTeq, ESRI Japan, METI, ESRI China (Hong Kong), ESRI Korea, ESRI (Thailand), MapmyIndia, NOCC, © OpenStreetMap contributors, and the USGS U.S. Census, 2010, Repub., March 2017, LA County Assessor, 2006-2017

November 13, 2017

UltraSystems

S800 – Sunshine Canyon
### Photo Location Map Key

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<td>1 – 43</td>
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<tr>
<td>2</td>
<td>CC-4 Part 1 and CC-4 Part 2</td>
<td>44 – 241</td>
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<td>3</td>
<td>Closure Turf and Posi-Shell</td>
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<td>4</td>
<td>CC-3B Top Deck</td>
<td>327 – 386</td>
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<td>5</td>
<td>Old City North Top Deck</td>
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<td>6</td>
<td>County Sage Mitigation and Westside Drainage Channel</td>
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<td>Basin D</td>
<td>447 – 452</td>
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<td>8</td>
<td>Basin D Outlet Channel</td>
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<td>9</td>
<td>Flares 9, 10, 11, and Gas-to-Energy Facility</td>
<td>472 – 485</td>
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<td>County Top Deck</td>
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<td>Big Cone Fir Mitigation</td>
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<td>Basin B</td>
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<td>Terminal Basin Inlets</td>
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<td>Sewer Lift Station and Graywater Facility</td>
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<td>Retaining Wall at San Fernando Road</td>
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<td>City Deck C Sage Mitigation</td>
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<td>City Deck B Sage Mitigation</td>
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<td>Illegal Dumping and Windblown Litter</td>
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<td>General Site</td>
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Photo 10: Basin A Back Native Hillside: January 30, 2018

Photo 11: Basin A Back Native Hillside: January 30, 2018

Photo 12: Basin A Back Native Hillside: January 30, 2018
Photo 13: Basin A Back Native Hillside: January 30, 2018

Photo 14: Basin A Side Native Hillside: January 30, 2018

Photo 15: Basin A Side Native Hillside: January 30, 2018

Photo 16: Basin A Outlet: January 30, 2018
Photo 17: Basin A Side Native Hillside: January 30, 2018

Photo 18: Basin A Side Native Hillside: January 30, 2018

Photo 19: Basin A Side Native Hillside: January 30, 2018

Photo 20: Basin A Outlet: January 30, 2018
Photo 21: Basin A Outlet Channel: January 30, 2018

Photo 22: Basin A Outlet Channel: January 30, 2018

Photo 23: Basin A: February 20, 2018

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Photo 25: Basin A: February 20, 2018

Photo 26: Basin A: February 20, 2018

Photo 27: Basin A: February 20, 2018

Photo 28: Basin A: February 20, 2018
Photo 29: Basin A Back Native Hillside: February 20, 2018

Photo 30: Basin A: March 14, 2018

Photo 31: Basin A: March 14, 2018

Photo 32: Basin A: March 14, 2018
Photo 33: Basin A: March 14, 2018

Photo 34: Basin A Outlet Channel: March 14, 2018

Photo 35: Basin A: March 29, 2018

Photo 36: Basin A: March 29, 2018
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Photo 38: Basin A: March 29, 2018

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Photo 40: Basin A: March 29, 2018
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Photo 43: Basin A Outlet: March 29, 2018

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Photo 188: CC3A Top Deck & Slope Revegetation: January 30, 2018
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Photo 277: Posi-Shell: February 20, 2018

Photo 278: Closure Turf: February 20, 2018

Photo 279: Closure Turf: February 20, 2018

Photo 280: Closure Turf: February 20, 2018
Photo 281: Closure Turf: February 20, 2018

Photo 282: Closure Turf: February 20, 2018

Photo 283: Closure Turf: February 20, 2018

Photo 284: Closure Turf: February 20, 2018
Photo 289: Closure Turf: February 20, 2018

Photo 290: Closure Turf: February 20, 2018

Photo 291: Closure Turf: February 20, 2018

Photo 292: Closure Turf: February 20, 2018
Photo 293: Closure Turf: February 20, 2018

Photo 294: Closure Turf: February 20, 2018

Photo 295: Posi-Shell and Closure Turf: March 14, 2018

Photo 296: Closure Turf: March 14, 2018
Photo 301: Closure Turf: March 14, 2018

Photo 302: Closure Turf: March 14, 2018

Photo 303: Closure Turf: March 14, 2018

Photo 304: Closure Turf: March 14, 2018
Photo 305: Closure Turf: March 14, 2018

Photo 307: Closure Turf: March 14, 2018

Photo 306: Closure Turf: March 14, 2018

Photo 308: Closure Turf: March 29, 2018
Photo 309: Closure Turf: March 29, 2018

Photo 310: Closure Turf: March 29, 2018

Photo 311: Closure Turf: March 29, 2018

Photo 312: Closure Turf: March 29, 2018
Photo 313: Closure Turf: March 29, 2018

Photo 314: Closure Turf: March 29, 2018

Photo 315: Closure Turf: March 29, 2018

Photo 316: Closure Turf: March 29, 2018
Photo 317: Closure Turf: March 29, 2018

Photo 318: Closure Turf: March 29, 2018

Photo 319: Closure Turf: March 29, 2018

Photo 320: Closure Turf: March 29, 2018
Photo 321: Closure Turf: March 29, 2018

Photo 322: Closure Turf: March 29, 2018

Photo 323: Closure Turf: March 29, 2018

Photo 324: Closure Turf: March 29, 2018
Photo 325: Closure Turf: March 29, 2018

Photo 326: Closure Turf: March 29, 2018

Photo 327: Top Deck & Slope Revegetation: January 10, 2018

Photo 328: Top Deck & Slope Revegetation: January 10, 2018
Photo 329: Top Deck & Slope Revegetation: January 10, 2018

Photo 330: Top Deck & Slope Revegetation: January 10, 2018

Photo 331: Top Deck & Slope Revegetation: January 10, 2018

Photo 332: Top Deck & Slope Revegetation: January 10, 2018
Photo 333: Top Deck & Slope Revegetation: January 10, 2018

Photo 334: Top Deck & Slope Revegetation: January 10, 2018

Photo 335: Top Deck & Slope Revegetation: January 10, 2018

Photo 336: Top Deck & Slope Revegetation: January 10, 2018
Photo 337: Top Deck & Slope Revegetation: January 10, 2018

Photo 338: Top Deck & Slope Revegetation: January 10, 2018

Photo 339: Top Deck & Slope Revegetation: January 10, 2018

Photo 340: CC3B Slope Drainage Failure: January 10, 2018
Photo 341: CC3B Slope Drainage Failure: January 10, 2018

Photo 342: CC3B Slope Drainage Erosion: January 10, 2018

Photo 343: CC3B Slope Drainage Erosion: January 10, 2018

Photo 344: CC3B Top Deck: January 10, 2018
Photo 345: CC3B Top Deck: January 10, 2018

Photo 346: CC3B Top Deck: January 10, 2018

Photo 347: CC3B Top Deck: January 30, 2018

Photo 348: CC3B Top Deck: January 30, 2018
Photo 349: CC3B Top Deck: January 30, 2018

Photo 350: CC3B Top Deck: January 30, 2018

Photo 351: CC3B Top Deck: January 30, 2018

Photo 352: CC3B Top Deck: January 30, 2018
Photo 353: CC3B South Hydoseeded Slopes: January 30, 2018

Photo 354: CC3B Top Deck: January 30, 2018

Photo 355: CC3B Top Deck: January 30, 2018

Photo 356: CC3B Top Deck: January 30, 2018
Photo 357: Basin CC3B Plugged Low Flow-Outlet: January 30, 2018

Photo 358: Basin CC3B Plugged Low Flow-Outlet: January 30, 2018

Photo 359: Basin CC3B Plugged Low Flow-Outlet: January 30, 2018

Photo 360: Liquids Handling near CC3B Basin: January 30, 2018
Photo 361: Liquids Handling near CC3B Basin: January 30, 2018

Photo 362: Liquids Handling near CC3B Basin: January 30, 2018

Photo 363: Liquids Handling near CC3B Basin: January 30, 2018

Photo 364: CC3B Top Deck: February 20, 2018
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Photo 374: CC3B South Hydoseeded Slopes: February 20, 2018

Photo 375: Basin CC3B: March 14, 2018

Photo 376: Basin CC3B: March 14, 2018
Photo 381: Basin CC3B: March 14, 2018

Photo 382: Basin CC3B: March 14, 2018

Photo 383: Basin CC3B Low Flow Outlet: March 14, 2018

Photo 384: Basin CC3B Low Flow Outlet: March 14, 2018
Photo 385: Basin CC3B Low Flow Outlet: March 14, 2018

Photo 386: Basin CC3B Low Flow Outlet: March 14, 2018

Photo 387: Old City North-Eastern Top Deck: January 10, 2018

Photo 388: Old City North-Eastern Top Deck: January 10, 2018
Photo 393: Old City North-Eastern Top Deck Liquids Handling Facility: January 10, 2018

Photo 394: Old City North-Eastern Top Deck Liquids Handling Facility: January 10, 2018

Photo 395: Old City North-Eastern Top Deck Liquids Handling Facility: January 10, 2018

Photo 396: Old City North-Eastern Top Deck Liquids Handling Facility: January 10, 2018
Photo 397: Old City North-Eastern Top Deck Liquids Handling Facility: January 10, 2018

Photo 398: Old City North Top Deck: January 30, 2018

Photo 399: Old City North Top Deck: January 30, 2018

Photo 400: Old City North Top Deck: January 30, 2018
Photo 405: Old City North Top Deck: January 30, 2018

Photo 406: Idle Liquids Handling at Old City North Top Deck: January 30, 2018

Photo 407: Idle Liquids Handling at Old City North Top Deck: January 30, 2018

Photo 408: Idle Liquids Handling at Old City North Top Deck: January 30, 2018
Photo 409: Old City North Top Deck: February 20, 2018

Photo 410: Old City North Top Deck: February 20, 2018

Photo 411: Old City North Top Deck: March 29, 2018

Photo 412: Old City North Top Deck: March 29, 2018
Photo 413: Old City North Top Deck: March 29, 2018

Photo 414: Old City North Top Deck: March 29, 2018

Photo 415: Old City North Top Deck: March 29, 2018

Photo 416: Old City North Top Deck: March 29, 2018
Photo 417: Old City North Top Deck: March 29, 2018

Photo 418: Old City North Top Deck: March 29, 2018

Photo 419: Old City North Top Deck: March 29, 2018

Photo 420: Old City North Top Deck: March 29, 2018
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Photo 423: Edison County Area Slope Revegetation: January 30, 2018

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Photo 425: County Sage Mitigation Area Slope: January 30, 2018

Photo 426: County Sage Mitigation Area Slope: January 30, 2018

Photo 427: County Sage Mitigation Area Slope: January 30, 2018

Photo 428: County Sage Mitigation Area Slope: January 30, 2018
Photo 429: County Sage Mitigation Area Slope: February 20, 2018

Photo 430: County Sage Mitigation Area Slope: February 20, 2018

Photo 431: County Sage Mitigation Area Slope: February 20, 2018

Photo 432: County Sage Mitigation Area Slope: February 20, 2018
Photo 433: County Sage Mitigation Area Slope: February 20, 2018

Photo 434: County Sage Mitigation Area Slope: February 20, 2018

Photo 435: County Sage Mitigation Area Slope: February 20, 2018

Photo 436: County Sage Mitigation Area Slope: February 20, 2018
Photo 437: County Sage Mitigation Area Slope: February 20, 2018

Photo 438: County Sage Mitigation Area Slope: March 14, 2018

Photo 439: County Sage Mitigation Area Slope: March 14, 2018

Photo 440: County Sage Mitigation Area Slope: March 14, 2018
Photo 441: County Sage Mitigation Area Slope: March 14, 2018

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Photo 443: County Sage Mitigation Area Slope: March 29, 2018

Photo 444: County Sage Mitigation Area Slope: March 29, 2018
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Photo 446: Westside Drainage Channel: January, 10, 2018

Photo 447: Waste Material near Basin D Storage Area: January 30, 2018

Photo 448: Waste Material in Basin D Storage Area: January 30, 2018
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Photo 450: Waste Material in Basin D Storage Area: February 20, 2018

Photo 451: Basin D Deck Wood Waste Stockpile: March 29, 2018

Photo 452: Basin D Deck Wood Waste Stockpile: March 29, 2018
Photo 457: Basin D Outlet Channel: January 30, 2018

Photo 458: Basin D Outlet Channel: February 20, 2018

Photo 459: Basin D Outlet Channel: February 20, 2018

Photo 460: Basin D Outlet Channel: February 20, 2018
Photo 461: Basin D Outlet Channel: February 20, 2018

Photo 462: Basin D Outlet Channel: February 20, 2018

Photo 463: Basin D Outlet Channel: March 14, 2018

Photo 464: Basin D Outlet Channel: March 14, 2018
Photo 465: Basin D Outlet Channel: March 14, 2018

Photo 466: Basin D Outlet Channel: March 14, 2018

Photo 467: Basin D Outlet Channel: March 14, 2018

Photo 468: Basin D Outlet Channel: March 29, 2018
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Photo 470: Basin D Outlet Channel: March 29, 2018

Photo 471: Basin D Outlet Channel: March 29, 2018

Photo 472: Flare 11 Emissions Test: January 10, 2018
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Photo 474: Flare 11 Emissions Test: January 10, 2018

Photo 475: Flare 11 Emissions Test: January 10, 2018

Photo 476: Plugged Drain at Flare 9-11 Access Road: January 30, 2018
Photo 477: Plugged Drain at Flare 9-11 Access Road: January 30, 2018

Photo 478: Plugged Drain at Flare 9-11 Access Road: January 30, 2018

Photo 479: Site Flare 9, 10, & 11: February 20, 2018

Photo 480: Site Flare 9, 10, & 11: February 20, 2018
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Photo 482: Site Flare 9, 10, & 11: February 20, 2018

Photo 483: Site: Flare 3: February 20, 2018

Photo 484: Site: Flare 3: February 20, 2018
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Photo 486: County Top Deck: January 10, 2018

Photo 487: County Top Deck: January 10, 2018

Photo 488: County Top Deck: January 10, 2018
Photo 489: County Top Deck: January 10, 2018

Photo 490: County Top Deck: January 10, 2018

Photo 491: County Top Deck: January 10, 2018

Photo 492: County Top Deck: January 10, 2018
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Photo 502: County Top Deck & Slope Revegetation: January 30, 2018

Photo 503: County Top Deck & Slope Revegetation: January 30, 2018

Photo 504: County Top Deck & Slope Revegetation: January 30, 2018
Photo 505: County Top Deck & Slope Revegetation: January 30, 2018

Photo 506: County Top Deck & Slope Revegetation: January 30, 2018

Photo 507: County Top Deck & Slope Revegetation: January 30, 2018

Photo 508: County Top Deck: January 30, 2018
Photo 513: County Top Deck: January 30, 2018

Photo 514: County Top Deck: January 30, 2018

Photo 515: County Top Deck & Slope Revegetation: February 20, 2018

Photo 516: County Top Deck & Slope Revegetation: February 20, 2018
Photo 517: County Top Deck & Slope Revegetation: February 20, 2018

Photo 518: County Top Deck & Slope Revegetation: February 20, 2018

Photo 519: County Top Deck & Slope Revegetation: February 20, 2018

Photo 520: County Top Deck & Slope Revegetation: February 20, 2018
Photo 521: County Top Deck & Slope Revegetation: February 20, 2018

Photo 522: County Top Deck: February 20, 2018

Photo 523: County Top Deck: February 20, 2018

Photo 524: County Top Deck: February 20, 2018
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Photo 530: County Top Deck (Bowl) & Slope Revegetation: March 14, 2018

Photo 531: County Top Deck (Bowl) & Slope Revegetation: March 14, 2018

Photo 532: County Top Deck (Bowl) & Slope Revegetation: March 14, 2018
Photo 533: County Top Deck (Bowl) & Slope Revegetation: March 14, 2018

Photo 534: County Top Deck (Bowl) & Slope Revegetation: March 14, 2018

Photo 535: County Top Deck (Bowl) & Slope Revegetation: March 14, 2018

Photo 536: County Top Deck: March 14, 2018
Photo 537: County Top Deck: March 14, 2018

Photo 538: County Top Deck: March 14, 2018

Photo 539: County Top Deck: March 14, 2018

Photo 540: County Top Deck: March 14, 2018
Photo 541: County Top Deck: March 14, 2018

Photo 542: County Top Deck: March 14, 2018

Photo 543: County Top Deck: March 14, 2018

Photo 544: County Top Deck: March 14, 2018
Photo 545: County Top Deck: March 14, 2018

Photo 546: County Top Deck: March 14, 2018

Photo 547: County Top Deck (Bowl) & Slope Revegetation: March 29, 2018

Photo 548: County Top Deck (Bowl) & Slope Revegetation: March 29, 2018
Photo 549: County Top Deck (Bowl) & Slope Revegetation: March 29, 2018

Photo 550: County Top Deck (Bowl) & Slope Revegetation: March 29, 2018

Photo 551: County Top Deck (Bowl) & Slope Revegetation: March 29, 2018

Photo 552: County Top Deck (Bowl) & Slope Revegetation: March 29, 2018
Photo 553: County Top Deck (Bowl) & Slope Revegetation: March 29, 2018

Photo 554: County Top Deck (Bowl) & Slope Revegetation: March 29, 2018

Photo 555: County Top Deck (Bowl) & Slope Revegetation: March 29, 2018

Photo 556: County Top Deck: March 29, 2018
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Photo 569: Basin B Native Hillside: January 10, 2018

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Photo 572: Eastside Drainage Channel: January 10, 2018
Photo 573: Eastside Drainage Channel: January 10, 2018

Photo 574: Eastside Drainage Channel: January 10, 2018

Photo 575: Eastside Drainage Channel: January 10, 2018

Photo 576: Eastside Drainage Channel: January 10, 2018
Photo 577: Basin B: January 30, 2018

Photo 578: Basin B: January 30, 2018

Photo 579: Basin B: January 30, 2018

Photo 580: Basin B: January 30, 2018
Photo 581: Basin B: January 30, 2018

Photo 582: Basin B: January 30, 2018

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Photo 584: Eastside Drainage Channel: January 30, 2018
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Photo 586: Eastside Drainage Channel: January 30, 2018

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Photo 590: Basin B: February 20, 2018

Photo 591: Basin B Native Hillside Litter: February 20, 2018

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Photo 595: Basin B: March 14, 2018

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Photo 606: Basin B Sage Mitigation Area: March 29, 2018

Photo 607: Basin B Sage Mitigation Area: March 29, 2018

Photo 608: Basin B Sage Mitigation Area: March 29, 2018
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Photo 618: Old City South: February 20, 2018

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Photo 620: Old City South: February 20, 2018
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Photo 622: Old City South: February 20, 2018

Photo 623: Old City South: February 20, 2018

Photo 624: Old City South: February 20, 2018
Photo 625: Old City South: February 20, 2018

Photo 626: Old City South: February 20, 2018

Photo 627: Old City South: February 20, 2018

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Photo 632: Terminal Basin Inlet: March 14, 2018
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Photo 634: Old City South Soil Stockpile: March 14, 2018

Photo 635: Old City South Soil Stockpile: March 14, 2018

Photo 636: Old City South Soil Stockpile: March 14, 2018
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Photo 638: Old City South Slope: March 29, 2018

Photo 639: Old City South Slope: March 29, 2018

Photo 640: Old City South Slope: March 29, 2018
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Photo 642: Old City South Slope: March 29, 2018

Photo 643: Old City South Slope: March 29, 2018

Photo 644: Old City South Slope: March 29, 2018
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Photo 655: Landfill Liquids Transfer Piping: January 10, 2018

Photo 656: Slope above Terminal Basin: January 30, 2018
Photo 657: Terminal Basin: January 30, 2018

Photo 658: Terminal Basin: January 30, 2018

Photo 659: Terminal Basin: January 30, 2018

Photo 660: Terminal Basin: January 30, 2018
Photo 665: Terminal Basin: January 30, 2018

Photo 666: Terminal Basin: January 30, 2018

Photo 667: Access Road near Terminal Basin: January 30, 2018

Photo 668: Access Road near Terminal Basin: January 30, 2018
Photo 669: Access Road near Terminal Basin: January 30, 2018

Photo 670: Access Road near Terminal Basin: January 30, 2018

Photo 671: Access Road near Terminal Basin: January 30, 2018

Photo 672: Terminal Basin: March 14, 2018
Photo 673: Terminal Basin: March 14, 2018

Photo 674: Terminal Basin: March 14, 2018

Photo 675: Terminal Basin: March 14, 2018

Photo 676: Terminal Basin: March 14, 2018
Photo 681: Terminal Basin: March 14, 2018

Photo 682: Terminal Basin: March 14, 2018

Photo 683: Terminal Basin: March 14, 2018

Photo 684: Terminal Basin: March 14, 2018
Photo 685: Terminal Basin: March 14, 2018

Photo 686: Terminal Basin: March 14, 2018

Photo 687: Terminal Basin: March 14, 2018

Photo 688: Terminal Basin Top Wall: March 14, 2018
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Photo 690: Terminal Basin: March 14, 2018

Photo 691: Terminal Basin: March 14, 2018

Photo 692: Terminal Basin: March 14, 2018
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Photo 703: Terminal Basin East Exterior Wall: March 14, 2018

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Photo 706: Terminal Basin Top Walkway: March 14, 2018

Photo 707: Terminal Basin Top Walkway: March 14, 2018

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Photo 710: Access Road near Terminal Basin Entrance: March 14, 2018

Photo 711: Access Road near Terminal Basin Entrance: March 14, 2018

Photo 712: Access Road near Terminal Basin Entrance: March 14, 2018
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Photo 714: Access Road near Terminal Basin Entrance: March 14, 2018

Photo 715: Access Road near Terminal Basin Entrance: March 14, 2018

Photo 716: Access Road near Terminal Basin Entrance: March 14, 2018
Photo 717: Access Road near Terminal Basin Entrance: March 14, 2018

Photo 718: Access Road near Terminal Basin Entrance: March 14, 2018

Photo 719: Access Road near Terminal Basin Entrance: March 14, 2018

Photo 720: Access Road near Terminal Basin Entrance: March 14, 2018
Photo 721: Access Road near Terminal Basin Entrance: March 14, 2018

Photo 722: Access Road near Terminal Basin Entrance: March 14, 2018

Photo 723: Access Road near Terminal Basin Entrance: March 14, 2018

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Photo 726: Terminal Basin: March 29, 2018

Photo 727: Terminal Basin: March 29, 2018

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Photo 734: Terminal Basin: March 29, 2018

Photo 735: Terminal Basin: March 29, 2018

Photo 736: Terminal Basin: March 29, 2018
Photo 737: Terminal Basin: March 29, 2018

Photo 738: Terminal Basin: March 29, 2018

Photo 739: Terminal Basin: March 29, 2018

Photo 740: Terminal Basin: March 29, 2018
Photo 741: Terminal Basin: March 29, 2018

Photo 742: Terminal Basin: March 29, 2018

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Photo 744: Terminal Basin: March 29, 2018
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Photo 747: Terminal Basin Outlet: March 29, 2018

Photo 748: Terminal Basin Outlet: March 29, 2018
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Photo 750: Access Road Slope near Terminal Basin Entrance: March 29, 2018

Photo 751: Access Road Slope near Terminal Basin Entrance: March 29, 2018

Photo 752: Access Road Slope near Terminal Basin Entrance: March 29, 2018
Photo 753: Access Road Slope near Terminal Basin Entrance: March 29, 2018

Photo 754: Access Road Slope near Terminal Basin Entrance: March 29, 2018

Photo 755: Access Road Slope near Terminal Basin Entrance: March 29, 2018

Photo 756: Access Road Slope near Terminal Basin Entrance: March 29, 2018
Photo 757: Access Road Slope near Terminal Basin Entrance: March 29, 2018

Photo 758: Access Road Slope near Terminal Basin Entrance: March 29, 2018

Photo 759: Access Road Slope near Terminal Basin Entrance: March 29, 2018

Photo 760: Access Road Slope near Terminal Basin Entrance: March 29, 2018
Photo 761: Access Road Slope near Terminal Basin Entrance: March 29, 2018

Photo 762: Access Road Slope near Terminal Basin Entrance: March 29, 2018

Photo 763: Access Road Slope near Terminal Basin Entrance: March 29, 2018

Photo 764: Access Road Slope near Terminal Basin Entrance: March 29, 2018
Photo 765: Access Road Slope near Terminal Basin Entrance: March 29, 2018

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Photo 768: Access Road Slope near Terminal Basin Entrance: March 29, 2018
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Photo 774: Frontage Retaining Wall Slope on San Fernando Road: January 10, 2018

Photo 775: Frontage Retaining Wall Slope on San Fernando Road: January 10, 2018

Photo 776: Frontage Retaining Wall Slope on San Fernando Road: January 10, 2018
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Photo 780: Frontage Retaining Wall Slope on San Fernando Road: March 14, 2018
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Photo 787: Frontage Retaining Wall Slope on San Fernando Road: March 14, 2018

Photo 788: Acceleration Lane on San Fernando Road: March 14, 2018
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Photo 790: PM 10 Berm Area: January 10, 2018

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Photo 794: Deck C Sage Mitigation Area: January 10, 2018

Photo 795: PM 10 Berm Area: January 30, 2018

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Photo 807: Deck C PM 10 Berm Area: March 29, 2018

Photo 808: Deck C Sage Mitigation Area: March 29, 2018
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Photo 810: Deck C Sage Mitigation Area: March 29, 2018

Photo 811: Deck C Sage Mitigation Area: March 29, 2018

Photo 812: Deck C Sage Mitigation Area: March 29, 2018
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Photo 816: Deck B Sage Mitigation Area: January 10, 2018
Photo 817: Deck B Sage Mitigation Area: January 10, 2018

Photo 818: Deck B Sage Mitigation Area: January 10, 2018

Photo 819: Deck B Sage Mitigation Area: January 10, 2018

Photo 820: Deck B Sage Mitigation Area: January 10, 2018
Photo 821: Deck B Sage Mitigation Area: January 10, 2018

Photo 822: Deck B Sage Mitigation Area: January 30, 2018

Photo 823: Deck B Sage Mitigation Area: January 30, 2018

Photo 824: Deck B Sage Mitigation Area: January 30, 2018
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Photo 831: Slope Above Flare 1 Pad: January 10, 2018

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Photo 834: Flare 1 Hillside V-Ditch: March 14, 2018

Photo 835: Flare 1 Hillside V-Ditch: March 14, 2018

Photo 836: Flare 1 Hillside V-Ditch: March 14, 2018
Photo 837: Flare 1 Hillside V-Ditch: March 14, 2018

Photo 838: Flare 1 Hillside V-Ditch: March 14, 2018

Photo 839: Flare 1 Hillside V-Ditch: March 14, 2018

Photo 840: Flare 1 Hillside V-Ditch: March 14, 2018
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Photo 842: Illegal Dumping at Sierra Highway near I-14 Overpass: March 14, 2018

Photo 843: Illegal Dumping at Sierra Highway near I-14 Overpass: March 14, 2018

Photo 844: Illegal Dumping at Sierra Highway near I-14 Overpass: March 14, 2018
Photo 845: Illegal Dumping at Sierra Highway near I-14 Overpass: March 14, 2018

Photo 846: Illegal Dumping at Sierra Highway near I-14 Overpass: March 14, 2018

Photo 847: Illegal Dumping at Sierra Highway near I-14 Overpass: March 29, 2018

Photo 848: Illegal Dumping at Sierra Highway near I-14 Overpass: March 29, 2018
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Photo 850: Abandoned Trailer North of Entrance: March 29, 2018

Photo 851: Abandoned Trailer North of Entrance: March 29, 2018

Photo 852: Illegal Dumping San Fernando Road at I-5 Overpass: March 29, 2018
Photo 853: Illegal Dumping San Fernando Road at I-5 Overpass: March 29, 2018

Photo 854: Illegal Dumping San Fernando Road at I-5 Overpass: March 29, 2018

Photo 855: Illegal Dumping San Fernando Road at I-5 Overpass: March 29, 2018

Photo 856: Illegal Dumping San Fernando Road at I-5 Overpass: March 29, 2018
Photo 857: Illegal Dumping San Fernando Road at I-5 Overpass: March 29, 2018

Photo 858: Trucks Staging at Scales: March 29, 2018

Photo 859: Trucks Staging at Scales: March 29, 2018

Photo 860: Trucks Staging at Scales: March 29, 2018
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Photo 862: Site Water Pounding: January 10, 2018

Photo 863: Site Water Pounding: January 10, 2018

Photo 864: Site Water Pounding: January 10, 2018
Photo 865: Site Water Pounding: January 10, 2018

Photo 866: Site Water Pounding: January 10, 2018

Photo 867: Site Water Pounding: January 10, 2018

Photo 868: Site Water Pounding: January 10, 2018
Photo 869: Site Water Pounding: January 10, 2018

Photo 870: Site Water Pounding: January 10, 2018

Photo 871: Site Water Pounding: January 10, 2018

Photo 872: Site Water Pounding: January 10, 2018
Photo 873: Site: January 10, 2018

Photo 874: Site: January 10, 2018

Photo 875: Site: January 10, 2018

Photo 876: Site: January 10, 2018
Photo 881: Site: January 10, 2018

Photo 882: Site: January 10, 2018

Photo 883: Site: January 10, 2018

Photo 884: Site: January 10, 2018
Photo 889: Site: January 10, 2018

Photo 890: Site: January 10, 2018

Photo 891: Site: January 10, 2018

Photo 892: Site: January 10, 2018
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Photo 894: Site: January 10, 2018

Photo 895: Site: January 10, 2018

Photo 896: Site: January 10, 2018
Photo 901: Site: January 10, 2018

Photo 902: Site: January 10, 2018

Photo 903: Site: January 10, 2018

Photo 904: Site: January 10, 2018
Photo 909: Site: January 30, 2018

Photo 910: Site: January 30, 2018

Photo 911: Site: January 30, 2018

Photo 912: Site: January 30, 2018
Photo 913: Site: January 30, 2018

Photo 914: Site: January 30, 2018

Photo 915: Site: January 30, 2018

Photo 916: Site: January 30, 2018
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Photo 920: Site: January 30, 2018
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Photo 928: Site: January 30, 2018
Photo 929: Site: January 30, 2018

Photo 930: Site: January 30, 2018

Photo 931: Site: January 30, 2018

Photo 932: Site: January 30, 2018
Photo 937: Site: January 30, 2018

Photo 938: Site: March 14, 2018

Photo 939: Site: March 14, 2018

Photo 940: Site: March 14, 2018
Photo 941: Site: March 14, 2018

Photo 942: Site: March 14, 2018

Photo 943: Site: March 14, 2018

Photo 944: Site: March 14, 2018
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Photo 959: Site: March 14, 2018

Photo 960: Site: March 29, 2018
Photo 965: Site: March 29, 2018

Photo 966: Site: March 29, 2018

Photo 967: Site: March 29, 2018

Photo 968: Site: March 29, 2018
Photo 969: Site: March 29, 2018

Photo 970: Site: March 29, 2018

Photo 971: Site: March 29, 2018

Photo 972: Site: March 29, 2018
Photo 973: Site: March 29, 2018

Photo 974: Site: March 29, 2018

Photo 975: Site: March 29, 2018

Photo 976: Site: March 29, 2018
## Appendix III
### Quarterly Site Visits: Site Visit Attendees by Date of Site Visit/ Mitigation Monitoring Site Reports

<table>
<thead>
<tr>
<th><strong>UltraSystems Staff</strong></th>
<th><strong>Fields of Expertise:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>James Aidukas</td>
<td>Project Manager, Permitting and Operations/ Engineer</td>
</tr>
<tr>
<td>Mike Lindsay</td>
<td>Air Quality, Noise, Vehicle Emissions, Environmental Specialist/ Engineer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>SLR Staff</strong></th>
<th><strong>Fields of Expertise:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tarik Hadj-Hamou</td>
<td>Geotechnical, Civil, and Landfill Design/ Engineer</td>
</tr>
</tbody>
</table>
January Site Visits

January 10, 2018:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)
Drove the Granada Hills and adjacent Sylmar neighborhood areas from 6:30 to 7:30 a.m. and there were no landfill odors detected. Met with Mike Lindsay (UltraSystems) signed in, had a brief meeting with Joshua Mills, and proceeded to monitor the site and observed the following:

- Drove San Fernando Road north and Sierra Highway and did not observe any illegal dumping or windblown litter.
- The terminal basin outlet channel had a significant amount of sediment that was discharged during yesterday’s rain. The cause of the discharge was not evident.

Met with Gladys Gallardo (LACDPW) and she joined us during the monitoring.

- There was water ponding on the closure turf. The lower portion of the green grass cover of the turf slid down along the edge of the main access road, exposing the HDPE liner. The western area where it meets with the soil slope of CC-3A had washout areas and exposed trash.
- Slope erosion and exposed waste was seen on the slopes of CC-4 Part 2. Standing water in the lined drainage channel was scheduled to be pumped into trucks and sewered.
- Significant slope erosion was seen in some areas of CC-4A Parts 1 and 2, CC-3A and CC-3B.
- A slope HDPE drainage channel was washed away on the eastern slope of CC-3B.
- There was a strong odor coming from the top deck of CC-3A. This could be coming from the soil amendment for the revegetation activity.
- Ponding of rainwater was seen on the Old City North top deck near the leachate and condensate tank farm.
- Rainwater ponding was seen on the top deck of CC-3B.
- CC-4A Part 1 was accepting waste with three tippers operating. CC-4A Part 2 was not active.
- The eastern slopes of CC-3A and the County inactive decks and slopes being revegetated had deep erosion rills. The straw wattles were not effective in controlling the runoff. Ponding was seen in these areas.
- The Posi-Shell appeared to hold up to the rain event. There were only minor areas that needed to be repaired.
- The effectiveness of the erosion control measures being used on the whole site need to be evaluated. The areas that had erosion exposing trash need immediate remedial attention.
- The eastside drainage channel had an area north of Basin B where the concrete channel wall was spalling. The channel had significant sediment behind the gabions.
- Basin B had sediment and standing water.
Independent Monitor Quarterly Report

Page 2 of 2, 1/10/18:

- Deck C sage mitigation was greening up due to the cooler weather and moisture. No maintenance work appears to have been done.
- The PM-10 berm Oak Trees were doing well, greening up, and growing.
- The Deck B sage mitigation is graded and survey stakes placed. No planting activity has occurred.
- The native slopes above the Flare 1 pad had significant erosion.
- The Basin D outlet channel was cleaned and liner repaired.
- A packer truck on the main access road was blowing litter out of the top of the truck.
- The westside concrete channel across the main access road from the CC-3B basin was spalling and lifting. The walls were also cracking as it goes under the roadway.
- CC-3B basin had standing water. The low-flow drain was plugged.
- The terminal basin has one skimmer riser support break and caused an uncontrolled release of sediment during yesterday’s rain event. The risers were being repaired and reinforced.
- The San Fernando Road retaining wall top drainage channel had standing water and significant soil flow from the hillside. Maintenance should be scheduled for soil removal and unplugging the channel drains.

Flare Operating Conditions:
- Flare 1 - 1694°F, 2448 SCFM, -57.72" vacuum, 38.51" out, 36% CH₄, 52 ppm H₂S, 0.8% O₂
- Flare 3 - shut down
- Flare 9 - shut down
- Flare 10 - 1666°F, 3107 SCFM, -64" vacuum, 40.2 out
- Flare 11 - 2708 SCFM

The gas-to-energy plant was using 8862 SCFM of recovered landfill gas, 46% CH₄, 1.1% O₂, 56 ppm H₂S. Total gas volume recovered was 18,361 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed:
SITE LOG

1. Met with Jim Aidukas (UltraSystems), and checked into office and with Joshua Mills.
3. Observed ponding water on closure turf along haul road due to heavy rains yesterday.
4. A strong waste odor is present on the top deck of Cell CC-3A at 10:05 AM. Odor is intermittent, coming from the northwest.
5. Cell CC-3B is in good order, with no significant ponding water.
7. Cell CC-4 Part 1 is in good order, with minimum ponding water. Three tippers are in operation. ADC is 30% covered with new trash at 10:20 AM.
8. Met with Marco Quen (SCS project superintendent) at the new onsite SCS trailer office. He informed us that Flare 3 is offline.
9. Observed buckling concrete at sediment basin B perimeter drainage channel.
10. A deep erosion rut has formed on slope below Cell CC-3A.
11. Leachate collection tanks (tank farm) are in good order.
12. Water has ponded around tank farm.
13. A large water pond has formed at Cell CC-4 Part 2.
15. Flare 1 is operating at 2431 scfm, 1701 °F. Gas sample measured at 36 % Vol. CH4, 0.8 % Vol. O2, 85 ppm H2S and 67 ppm CO. Gas inlet temperature is at 107 °F.
16. Windspeed measured at 26.9 MPH maximum at 11:25 AM near observation deck.
17. Traffic spotters are onsite to control traffic.
18. Water trucks are applying water throughout site for dust control.
19. Erosion ruts are getting deeper on slope above Flare 1.
20. Street sweepers are cleaning the haul roads.
21. City deck C sage mitigation area is growing well, with several species of bird present.
22. Flare 9 is offline.
23. Flare 10 is operating at 3048 scfm, 1652 °F. Gas sample measured at 46 % Vol. CH4, 1.1 % Vol. O2, 52 ppm H2S and over 500 ppm CO. Gas inlet temperature is at 108 °F. Blowers 1, 2, 3 and 4 are in operation.
24. Flare 11 is undergoing source emissions testing.
25. Drainage channel for sediment basin D has been repaired and cleared.
26. Sediment basin B has standing water across one-quarter of its floor.
27. Terminal basin is in overall good condition, with some sediment accumulated from recent rains.
28. Observed one of the terminal basin's three vertical riser drains being repaired (re-welded) due to a failure during the recent storm event.
29. The terminal basin outlet has fine sediment accumulated in channel.
30. Met with Chris Coyle, Joshua Mills and Tuong-phu Ngo (Republic), and discussed our site monitoring
observations.

<table>
<thead>
<tr>
<th>FURTHER REVIEW NEEDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Repair buckling concrete at sediment basin B drainage channel.</td>
</tr>
<tr>
<td>2. Eliminate ponding water at tank farm.</td>
</tr>
<tr>
<td>5. Repair erosion ruts above Flare 1.</td>
</tr>
<tr>
<td>6. Eliminate ponding water at sediment basin B.</td>
</tr>
<tr>
<td>7. Eliminate fine sediment at terminal basin outlet channel.</td>
</tr>
</tbody>
</table>

Signed: [Signature]

Michael W. Lindsay
January 30, 2018:

James Aidukas (UltraSystems)
Mike Lindsay (UltraSystems)
Tarik Hadj-Hamou (SLR)
SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas
Discipline: Project Manager
Page: 1 of 2
Date: 1/30/18

Site Conditions: Clear, 45-65°F, 0-10 MPH winds

SITE LOG

Republic General Manager - Chris Coyle

Drove the Granada Hills neighborhood areas from 6:45 to 7:30 a.m. and there were no landfill odors detected. Met with Mike Lindsay (UltraSystems) and Tarik Hadi-Hamou (SLR), signed in, had a brief meeting with Ricky Dhupar, and proceeded to monitor the site and observed the following:

- Erosion rills on slopes in Cells CC-3A, CC-3B southern side, CC-4A Parts 1 and 2, and the Old City south were in the process of being repaired. All areas where trash was previously exposed have been repaired.
- There were no liquids odors detected on the CC-3A access road adjacent to the closure turf where a previous landfill liquids spill occurred.
- There was an area of the slope closure turf that appears to have slid or sunk.
- The City South landfill soil stockpile area south of the office parking lot has one area that has further subsidence. This area needs to be monitored by Republic.
- The Old City north deck liquids handling tank farm was operating with liquids being trucked away. Connection to the sewer was not yet completed. The rest of this deck was graded and rain impacts repaired.
- The CC-3B top deck erosion and drainage gullies were repaired.
- There were significant erosion rills on the eastern vegetated slopes of CC-3B and CC-3A. The straw wattles were not buried when installed and water flowed under them, creating rills.
- Basin B was cleared of litter with minimal sediment and standing water. The native hillside had windblown litter.
- Wet weather road base and landfill drainage rock was stockpiled on the County top deck along with drainage piping and gas collection piping and materials.
- The drainage channel along the paved access road to the Flares 9, 10, and 11 site had the outlet plugged.
- Basin D outlet channel liner leading edge was lifting and had tumbleweed and sediment under the liner.
- The deck above Basin D still had stockpiles of tree trunks and branches, wood waste and other debris.
- The portion of the County sage area that was covered with jute netting and hydrosedded held up to the rains with no erosion seen, and were greening up with vegetation.
- Basin A had sediment and standing water at the outlet risers. There was windblown litter in the back and side native vegetation areas. The gas collection piping to Flare 3 was sliding off its supports and becoming unstable due to the cut hillside sloughing soil.
- Cells CC-4A Part 1 and 2 were accepting waste.
- The eastside drainage channel had significant sediment and litter behind channel gabions.
Sediment was being piled in the terminal basin for drying to allow for removal. Litter was picked up and bagged for removal. The outlet risers had a concrete base installed to support the I-beam uprights.

The access road slope near the terminal basin's inlet had additional movement. Republic should monitored this soil movement.

CC-3B basin's low flow drain is still plugged.

Flare Operating Conditions:
- Flare 1 - 1689°F, 2552 SCFM, -57.89" vacuum, 38.67" out, 36% CH₄, 81 ppm H₂S, 0.8% O₂
- Flare 3 - 2500 SCFM
- Flare 9 - shut down
- Flare 10 - 1641°F, 3976 SCFM, -63" vacuum, 40.2 out
- Flare 11 - 1649°F, 4468 SCFM

The gas-to-energy plant was using 7500 SCFM of recovered landfill gas, 47% CH₄, 1.1% O₂, 58 ppm H₂S. Total gas volume recovered was 20,996 SCFM.
**SUNSHINE CANYON LANDFILL**  
**MITIGATION MONITORING SITE REPORT**

<table>
<thead>
<tr>
<th>Monitor:</th>
<th>Mike Lindsay</th>
<th>Page: 1 of 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discipline:</td>
<td>Environmental Engineer</td>
<td>Date: 01-30-2018 Tuesday</td>
</tr>
<tr>
<td>Site Conditions:</td>
<td>Cloudy, 63–83 °F, 4–18 mph, 21% RH</td>
<td></td>
</tr>
</tbody>
</table>

### SITE LOG

1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office and with Ricky Dhupar (Republic).
2. No liquids odor is present on haul road by closure turf at 8:40 AM.
3. Cell CC-3B and tank farm are in good order.
4. Erosion ruts are present, extending underneath straw wattles, along slopes below Cell CC-3A and east haul road.
5. Cell CC-4A Part 1 & Part 2 are in good order, ready for new trash at 9:00 AM.
6. Cell CC-3A is in good order, with compost spread on top deck.
7. Sediment basin B is in good order, with some orange trash collection bags present in basin.
8. Flare 9 is offline.
9. Water trucks are applying water throughout site for dust control.
10. Flare 10 is operating at 3972 scfm, 1657 °F. Gas sample measured at 47 % Vol. CH4, 1.1 % Vol. O2, 58 ppm H2S and over 500 ppm CO. Gas inlet temperature is at 117 °F. Blowers 1, 2 and 4 are in operation.
11. Flare 11 is operating at 4531 scfm, 1652 °F.
12. Street sweepers are cleaning the haul roads.
13. Sediment basin D drainage channel is clear.
14. Sediment basin D is in good condition.
15. County sage mitigation slopes have erosion ruts at known locations.
16. Some new vegetation growth is present on hydroseeded County slopes.
17. Sediment basin A is in good overall condition, with some ponding water at riser drains.
18. Gas header pipe along sediment basin A has partially slipped off of its supports.
19. Windblown trash has collected on northwest slope of sediment basin A.
20. Cell CC-4 Part 2 is in good order. ADC is 100% covered with new trash at 10:15 AM.
21. Flare 1 is operating at 2534 scfm, 1687 °F. Gas sample measured at 36 % Vol. CH4, 1.7 % Vol. O2, 81 ppm H2S and 84 ppm CO. Gas inlet temperature is at 117 °F.
22. Observed overall landfill operations from observation deck, including Cell CC-4 Part 1, with ADC 40% covered with new trash at 11:10 AM.
23. Traffic spotters are onsite to control traffic.
24. Met with Chris Coyle, Joshua Mills, Ricky Dhupar and Tuong-phu Ngo (Republic), and discussed our site monitoring observations.
## FURTHER REVIEW NEEDED

1. Repair erosion ruts at Cell CC-3A.
2. Eliminate ponding water at sediment basin A.
3. Insure gas header pipe at sediment basin A has secure support.
4. Remove windblown trash at sediment basin A.

Signed: [Signature]

Michael W. Jindra
MITIGATION MONITORING
SITE REPORT

Monitor: Tarik Hadji-Hamou, Ph.D., P.E.  PAGE 1 OF 10

Discipline: Civil – Geotechnical and Hydrology  Date: January 30, 2018

Site Conditions: Sunny and warm

SITE LOG

7:00  Met with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill,
   8:20: Sign-up in main office.

8:10 – 12:00 Site inspection
   • Placement of waste in Cell CC4 Phase 1 and Phase 2
   • Erosion protection system
   • Drainage systems (Basins, channels)
   • Access Roads
   • Closure Turf on slopes of Cell CC3
   • Landfill for geotechnical and hydrological issues

Waste Placement in Cell CC4
   • Waste Placement in Cell CC4 Phase 1
     – large area of Enviro™Cover system in place (Photo 1)
     – Cell was accepting waste (Photo 2)
     – 3 Tilters were in use
   • Waste Placement in Cell CC4 Phase 2
     – cell was accepting waste (Photo 3)
     – No tilters in use
     – the collection channel/pond around Cell CC4 Phase 2 is full of water that has been impacted
       by waste (Photo 4)

Erosion Protection
   • Large areas of the landfill have been hydro seeded and wattles have been installed on the
     slopes to protect against erosion such as east facing slopes of Cell CC3A. However we noted a
     fair amount of erosion despite the wattles (Photos 5) with large gullies forming under the
     wattle, sign of poor installations.
   • Posi-shell applied to the slopes of Cell CC3 is holding out, we did not notice any new cracks

Drainage system
   • New temporary unlined earthen basin above Terminal basin
     – Basin is fully excavated and the spillway was cleared.
   • Basin A
     – Water and sediments have accumulated in basin following recent storm. The volume in the
       basin does not reduce the overall capacity significantly and is deemed not detrimental to its
       performance.
     – The gas header providing gas to Flare 3 is supported on pedestal made with V-notched
       pieces of HDPE pipe. Some of these pedestals have moved further out of alignment then
       was noted on December 12, 2017 probably because of expansion/contraction of the pipe
       leading to ‘snaking’ (Photo 6). We also noted that some soil had sloughed off the hill and
was pushing again the pipe (photo 7) further increasing the risk of the header falling into the basin with and associated risk of rupture.

- the outlets from Basin A observed to be blocked by tumbleweeds on December 12, 2017 have been cleared (Photo 8)
- The downstream channel is still used as access road with pipes under earth fill (Photo 9). The capacity of pipes to accept design flow should be checked and flow capacity restored if needed as the accumulation of wet sediments near the pipe intakes indicate clearly that flow is reduced.

- Basin B
  - Some sediments have accumulated near the outlet (photo 10), but the amount is not significant enough to affect the performance of the basin.
- Basin D
  - Clean
- Channel between Basin D and access road to Flare 9 and 10.
  - Geomembrane installed in the channel noted in previous visit to be in state of disrepair has been repaired. New sandbags and stakes have been installed (Photo 11). There is still a risk of water flowing between the membrane and the concrete and could create problems in the future.
  - Most of the tumbleweeds and soil in channel noted on December 12, 20917 have been removed
- Terminal Basin (Photo 12)
  - all sediments between the skimmers and the mid-basin gabion wall have been removed
  - removal operations were ongoing for sediment upstream of mi-basin gabion wall
  - The three skimmers are installed

Access roads.

- Main access road
- the sloughing on the embankment of the access road observed during the previous visits is still there and may have worsened some based on inclining to utility pole (Photo 13)

Closure Turf on slopes of CC3:

- The leachate break-out that occurred at access road to the deck of cell CC3 in an area covered with Closure Turf has been repaired, we did not detect any smell

Retaining wall on San Fernando Road:

- No comments – are looks clean of sediments

Overall landfill inspection.

- no other geotechnical issues than that noted at access road were observed during the visit

12:15-12:40 Close-out meeting with Republic Staff representative (Joshua Mills, Tuong-Phu Ngo, and Chris Coyle) to discuss findings of visit

FURTHER REVIEW NEEDED
• Photo 14 shows an overview of Cell CC4 Phase 1 (on the right) and Phase 2 (on the left). Drainage from the slopes between Phase 1 and Phase 2 may flow over part of Phase 1, likewise water flowing from the back on Phase 2 may enter in contact with the waste. This impacted water which will end-up in the collection trench/pond around Phase 2 will have to be treated.

• Should the landfill be hit by a large storm this could result in large volumes of water to treat. Republic should task his consultant into looking at possibilities to install diversion berms or ditches along the roads and at toe of slopes to direct clean stormwater away from the waste face.

Signed:
Photo 1: ADC Cell CC4 Phase 1

Photo 2: Waste Disposal in Cell CC4 Phase 1
Photo 3: Waste Disposal in Cell CC4 Phase 2

Photo 4: Water Channel Collection and Pond at Cell CC4 Phase 2
Photo 5: Gullies on Hydro seeded Slope – Note Gullies Under Wattles

Photo 6: Leaning Supports of LFG Header to Flare 3 in Basin A
Photo 7: Sloughed Soil and Pushing Against LFG Header to Flare 3 in Basin A

Photo 8: Cleaned up Drain Pipes of Basin A
Photo 9: Sediments Accumulation Downgradient from Basin A – Pipes do not offer enough flow capacity

Photo 10: Sediments Accumulated in Basin B
Photo 11: Repaired and Re-attached Geomembrane in Shotcrete Channel between Basin D and Access Road to Flare 9 and 10

Photo 12: Condition at Terminal Basin
Photo 13: Sloughing Tilted Utility Pole on Embankment of Main Access Road near Entrance of Terminal Basin

Photo 14: Overview of Cell CC4 and Watershed areas Onto Phase 2
February Site Visits

February 20, 2018:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)
Drove the Granada Hills neighborhood areas from 6:30 to 7:15 a.m. and there were no landfill odors detected. Met with Mike Lindsay (UltraSystems) and planned the monitoring sequence. Signed in, met with Vu Truong (LACDPW), and proceeded to monitor the site and observed the following:

- Erosion rills on the slopes above and into the CC-3B basin. There were no lined slope drainage downcomers in this area. The basin low flow drain was plugged with sediment.
- The City South landfill soil stockpile area south of the office parking lot has an area with subsidence. This area was noted for approximately six months. Any movement in this area should be monitored by Republic's geotechnical consultant.
- CC-4A Part 1 and Part 2 were active and accepting waste.
- Slopes with erosion rills at the back of Cells CC-4A Parts 1 and 2 were sprayed with Posi-Shell to control erosion.
- HDPE lined downcomer channels were installed on the CC-3A slopes in two areas.
- Dust clouds were observed coming from the Old City North top deck, CC-3B top deck, and the County top deck. Landfill service roads were not watered or treated for dust control and traffic would cause large dust clouds.
- The CC-3A dirt slope where it meets the Closure Turf has deep erosion rills due to no lined downcomer channel.
- The Closure Turf was being maintained and no gas or liquids odors or other problems were observed.
- A portion of the eastern facing CC-3A slopes with wattles and hydroseed had the prior noted (on 1/30 monitoring) erosion rills repaired. Vegetation was germinating with slope starting to green up. Other similar vegetated slopes, as one proceeds toward the County top deck, erosion impacts were not repaired.
- Gas well drilling was being done on the top deck of CC-3B.
- Construction was active on the Old City North top deck completing the new leachate handling system and the double wall piping to the sewer connection at San Fernando Road.
- Hydroseeded top deck of CC-3A and the area north on the County area were showing signs of seed germination and vegetation growth. This area was being irrigated. No compost odor was detected. Areas of faint and random frequency gas surface emissions were detected near the irrigation water tank.
- The Old City South landfill had two HDPE downcomers channel repaired and one new one installed. Dust clouds were observed coming from prior dozer worked areas.
- The Posi-Shell was being maintained and no gas emissions or odors were detected in this area.
Independent Monitor Quarterly Report

Page 2 of 2, 2/20/18:

- Basin B had minimal sediment with only a small area of standing water. The native hillsides had the windblown litter removed.
- The Basin D outlet concrete channel just out of the basin has approximately six inches thick sediment for approximately 30 feet with vegetation growing in it. The inlet to the Basin D lined channel has sediment and tumbleweed under the leading edge of the HDPE liner.
- The tree trunks and wood waste stockpiled adjacent to Basin D is being removed and processed.
- Basin D is free of sediment and dry. The westside outlet high flow spillover's concrete sidewall is cracked and should be epoxy sealed.
- The portion of the County sage area that was covered with jute netting and hydroseeded were greening up with vegetation. This is approximately 25% of the sage area. The remaining area has deep erosion rills and sediment accumulated in the westside channel below the rills.
- Basin A was dry and had sediment near the outlet riser. The gas header to Flare 3 was moved back onto the flat area of the basin's sidewalk. A minimal amount of soil was spilled into the basin moving the header. Windblown litter was observed in the north hillside and west basin back native vegetation.
- No sage maintenance was done in the Deck C area. A new monitoring trailer was being installed.
- No sage planting was done in Deck B. All preliminary grading has been done.

Flare Operating Conditions:
- Flare 1 - 1702°F, 2416 SCFM, -57.8” vacuum, 30.76” out, 36% CH₄, 85 ppm H₂S, 0.6% O₂
- Flare 3 - 1682°F, 2010 SCFM, -73” vacuum, 38.5” out, 47% CH₄, 29 ppm H₂S, 1.7% O₂
- Flare 9 - 1691°F, 3387 SCFM, -68” vacuum, 39” out
- Flare 10 - shut down
- Flare 11 - 1643°F, 2860 SCFM

The gas-to-energy plant was using 9643 SCFM of recovered landfill gas, 45% CH₄, 1.6% O₂, 46 ppm H₂S. Total gas volume recovered was 20,316 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: [Signature]
### SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

<table>
<thead>
<tr>
<th>Monitor:</th>
<th>Mike Lindsay</th>
<th>Page:</th>
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<tbody>
<tr>
<td>Discipline:</td>
<td>Environmental Engineer</td>
<td>Date:</td>
<td>02-20-2018</td>
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<tr>
<td>Site Conditions:</td>
<td>Clear, 46–57 °F, 8–18 mph, 23% RH</td>
<td>Tuesday</td>
<td></td>
</tr>
</tbody>
</table>

#### SITE LOG

1. Met with Jim Aidukas (UltraSystems), and checked into office and with Peggy (Republic).
2. Met with Vu Truong (LACOPW).
3. Closure turf is in good order, with no odors present below Cell CC-3A at 9:20 AM.
4. Hydroteed slopes with straw wattles below Cell CC-3B are beginning to green with vegetation.
5. Deep water erosion rills have been repaired on west slope of Cell CC-3A.
6. No compost odor is present on top deck of Cell CC-3A at 10:05 AM.
7. Well drilling equipment is active on Cell CC-3B.
8. Vegetation is beginning to grow on hydroteed top deck of Cell CC-3A.
9. Working area at Cell CC-4 Part 1 is in good order, including three tipppers. ADC is 100% covered with new trash at 10:30 AM.
10. Irrigation sprinklers are watering hydroteed slopes on north side of County top deck at 10:35 AM.
11. Traffic spotters are onsite to control traffic.
12. Sediment basin B is in good order, with no ponding water.
13. Water trucks are applying water throughout site for dust control.
14. Flare 9 is operating at 2364 scfm, 1611 °F. Gas sample measured at 45 % Vol. CH4, 1.6 % Vol. O2, 46 ppm H2S and 375 ppm CO. Gas inlet temperature is at 111 °F. Blowers 1, 2 and 4 are in operation.
15. Flare 10 is offline.
16. Flare 11 is operating at 2399 scfm, 1625 °F.
17. Sediment basin D is in good condition.
18. Sediment basin D drainage channel is clear.
19. Woodpile near storage area is being removed.
20. County sage mitigation area hydroteed slopes are beginning to green with vegetation.
21. Sediment basin A is in good condition, with no ponding water.
22. Windblown trash continues to collect on northwest slope of sediment basin A.
23. Flare 3 is operating at 2026 scfm, 1697 °F. Gas sample measured at 47 % Vol. CH4, 1.7 % Vol. O2, 29 ppm H2S and 332 ppm CO.
24. Flare 1 is operating at 2419 scfm, 1679 °F. Gas sample measured at 36 % Vol. CH4, 0.6 % Vol. O2, 85 ppm H2S and 286 ppm CO. Gas inlet temperature is at 109 °F.
25. Street sweepers are cleaning the haul roads.
26. Met with Joshua Mills and Tuong-phu Ngo (Republic), and discussed our site monitoring observations.

#### FURTHER REVIEW NEEDED

1. Remove windblown trash at sediment basin A.

Signed: [Signature]

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5800 – Sunshine Canyon  Page AIII-25  First Quarter 2018
March Site Visits

March 14, 2018:

James Aidukas (UltraSystems)
Mike Lindsay (UltraSystems)
Tarik Hadj-Hamou (SLR)
SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas
Page: 1 of 2

 Discipline: Project Manager
 Date: 3/14/18

Site Conditions: Clear, 50-60°F, 5-15 MPH winds

SITE LOG

Republic General Manager - Chris Coyle

Drove the Granada Hills neighborhood areas from 6:15 to 7:15 a.m. and there were no landfill odors detected. Met with Mike Lindsay (UltraSystems) and Tarik Hadj-Hamou (SLR). Signed in, met with Vu Truong (LACDPW), and proceeded to monitor the site and observed the following:

- At 8:45 a.m., packer trucks were lining up at the scales. Areas CC-4 Parts 1 and 2 were ready for accepting waste.
- Water was seen flowing in the westside drainage channel from prior rain events. Ponded water was observed in the CC-4 Part 2 lined channel. The water was not currently being pumped. The water topped the lined channel on the northern and western sides. A pond of water was observed at the base of the west-facing stockpile soils slope in CC-3A.
- There was additional settlement in the City South Landfill soil stockpile area south of the office parking lot.
- Rainwater was flowing into the terminal basin from the east and west channels. There was a significant amount of sediment. The skimmers were not being operated and standing water was approximately 12’’ from topping the solid portion of two of the outlet risers. Debris was floating near the eastern basin wall. There was minor sediment in the outlet channel. The eastern exterior wall was free of debris.
- The concrete walkway along the terminal basin’s south top access has lifted approximately six inches, possibly due to soil expansion and has pushed the concrete fence foundation out of the ground. The walkway has also moved upward.
- The sloughing of soil on the main access road slope near the terminal basin has increased since the last monitoring. Republic geotechnical consultants should monitor this area.
- There was illegally dumped trash and a couch observed on Sierra Highway north of the I-14 overpass.
- The frontage retaining wall along San Fernando Road had some hillside soil sloughing with areas of the wall’s top fence with soils and rock piled against it. Soils were also observed accumulating in front of the wall and along the curb. The v-ditch drains were plugged with soil.
- The main access road had areas of roadway settling and pavement cracking.
- Basin CC-3B had a significant amount of sediment. There was water ponding and the low flow drain was slowly draining. There was minimal erosion near the closure turf and soil interface.
- The v-ditch concrete channel on the slope above the Flare 1 site was plugged with soil and blocked by vegetation. This channel was not functioning.
• There was a significant amount of slope erosion at the western and eastern edges of the closure turf soil interface. The closure turf had no apparent impact. The sand on the turf was washed away in some areas and observed in the terminal basin. The hydroseeded slopes above the closure turf had significant erosion rills.
• The Posi-Shell covered areas had erosion rills where uncontrolled slope drainage occurred. Some areas were already repaired.
• CC-4 Part 1 was accepting waste; Part 2 was not operating.
• There were localized liquid odors around the well 2133 and adjacent soil areas.
• Basin B had standing water and sediment. There was a minor amount of water draining. There was a slight amount of wind-blown litter in the back slope native vegetation.
• Gas well drilling was occurring in Cell CC-3A.
• The hydroseeded eastern County top deck and slopes (County Bowl) had significant erosion rills. Only minor germination and vegetation growth occurred.
• The Basin D outlet had minor sediment and tumbleweed. The channel appeared to have performed well in the rain event.
• Basin D was free of sediment and dry. The wood pile on the adjacent deck was being removed.
• The County sage area that was hydroseeded had germination and vegetation was growing. The jute netting performed well. The area not covered with jute netting had increase erosion and soil sloughing into the westside drainage channel.
• Basin A had sediment and standing water. Minimal draining was occurring due to sediment blockage. The outlet channel had significant blockage of the drainage pipes under the temporary access road.

Flare Operating Conditions:
  o Flare 1 - 1676°F, 2389 SCFM, -57.75" vacuum, 38.60" out, 36% CH₄, 85 ppm H₂S, 0.7% O₂
  o Flare 3 - not accessible due to wet road
  o Flare 9 - 1670°F, 3264 SCFM, -63.01" vacuum, 39.81" out
  o Flare 10 - shut down
  o Flare 11 - 1666°F, 3287 SCFM

The gas-to-energy plant was using 9706 SCFM of recovered landfill gas, 43% CH₄, 1.2% O₂, 55 ppm H₂S. Total gas volume recovered (without Flare 3 volume) was 18,646 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed:
## SUNSHINE CANYON LANDFILL MITIGATION MONITORING SITE REPORT

<table>
<thead>
<tr>
<th>Monitor: Mike Lindsay</th>
<th>Page: 1 of 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discipline: Environmental Engineer</td>
<td>Date: 03-14-2018 Wednesday</td>
</tr>
<tr>
<td>Site Conditions: Partly Cloudy, 49–61 °F, 3–13 mph, 81% RH</td>
<td></td>
</tr>
</tbody>
</table>

### SITE LOG

1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office.
2. Met with Vu Truong (LACDPW).
3. Terminal basin has 2 to 4 feet of sediment accumulated from recent rains.
4. Ponding water is covering all of the lower terminal basin. Waterline is 2 feet from top of riser drains.
5. Skimmer system at terminal basin is raised 3 feet above waterline, with no drainage occurring.
6. Outlet drainage for terminal basin is in good condition, with little sediment present.
7. Trash and debris has accumulated in the northwest corner of terminal basin, and is floating on the water’s surface.
8. North slope of main haul road near terminal basin has soil sloughing at known location.
9. Illegally dumped couch and debris is present on Sierra Highway by the I-14 overpass.
10. Retaining wall by landfill entrance has soil sloughed into drainage ditch.
11. Ponding water is present at low-flow drainage for Cell CC-3B sediment basin, with soil blocking drain.
12. Flare 1 is operating at 2386 scfm, 1697 °F. Gas sample measured at 36 % Vol. CH4, 0.7 % Vol. O2, 85 ppm H2S and 102 ppm CO. Gas inlet temperature is at 102 °F.
13. Observed overall landfill operations from observation deck, including Cell CC-4 operations.
14. Water trucks are applying water throughout site for dust control.
15. East slopes of Cell CC-3A are in good condition after recent rains.
16. Traffic spotters are onsite to control traffic.
17. Working area at Cell CC-4 Part 1 is in good order, including three tippers. ADC is 100% covered with new trash at 11:40 AM.
18. Cell CC-4 Part 2 is not operating today at 11:50 AM.
19. Drilling rig is operating on west side of Cell CC-3A.
20. Sediment basin B has ponding water over 40% of basin.
21. Flare 10 is offline.
22. Flare 9 is operating at 3344 scfm, 1655 °F. Gas sample measured at 43 % Vol. CH4, 1.2 % Vol. O2, 55 ppm H2S and over 500 ppm CO. Gas inlet temperature is at 132 °F. Blowers 1, 2, 3 and 4 are in operation.
23. Flare 11 is operating at 3311 scfm, 1642 °F.
24. Sediment basin D drainage channel has some sediment and tumbleweeds present.
25. Storage area is in good order.
26. Woodpile near storage area continues to be removed.
27. Sediment basin D is in good condition after the recent rains.
28. Gas monitoring probe number 207 at back of storage area is locked with a red padlock.
29. Sediment basin A has ponding water over 60% of basin.
30. Ponding water is present at base of Cell CC-4 Part 2.
31. Street sweepers are cleaning the haul roads.
32. Met with Joshua Mills and Tuong-phu Ngo (Republic), and discussed our site monitoring observations.

FURTHER REVIEW NEEDED
1. Eliminate ponding water at terminal basin.
2. Remove windblown trash at terminal basin.
3. Repair sloughing soil at north slope of main haul road near terminal basin.
4. Remove dumped couch and debris along Sierra Highway.
5. Remove soil from retaining wall by landfill entrance.
7. Eliminate ponding water at Cell CC-3B sediment basin.
8. Eliminate ponding water at sediment basin B.
9. Eliminate ponding water at sediment basin A.

Signed: [Signature]

Michael W. Lindsey
SUNSHINE CANYON LANDFILL

MITIGATION MONITORING
SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E. PAGE 1 OF 15
Discipline: Civil – Geotechnical and Hydrology Date: March 13, 2018
Site Conditions: Partly cloudy and cool

SITE LOG

7:00 Met with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill,
8:20: Sign-up in main office. meet with Vu Truong of the Los Angeles Country Department of Public Works

8:30 – 2:00 Site Inspection
- Waste placement in Cell CC4
- Erosion protection system
- Drainage systems (Basins, channels)
- Access Roads
- Closure Turf on slopes of Cell CC3
- Retaining wall along San Fernando Road
- Landfill for geotechnical and hydrological issues
- Other observations

Waste Placement in Cell CC4
- Cell CC4 Phase 1
  - Cell was accepting waste (Photo 1)
  - 2 Tilts were in use
- Cell CC4 Phase 2
  - cell was NOT accepting waste
  - No tilts in use
  - the collection channel/pond around Cell CC4 Phase 2 is full of water and some refuse by waste (photo 2)

Erosion Protection Systems
- Large areas of the landfill have been hydro seeded and wattles have been installed on the slopes to protect against erosion such as east facing slopes of Cell CC3A. The site has held quite well during last storm
- We noted some erosion gullies on the downstream face of the embankment of the earthen basin at Cell CC3 (Photos 3).
- Posi-shell applied to the slopes of Cell CC3 is holding out. We did not notice any new cracks since the January visit

Drainage System
- Terminal Basin
  - site visit followed a rain event, therefore there were sediments in the basin accumulated against the separators gabion walls (Photo 4)
  - Water was approximately 1 ft. below the top of the drain towers (Photo 5)
  - We observed that some of the sediment was coarse sand and probably form the hydro turf (Photo 6). If large amounts of sand end-up in the basin after each storm, it may be prudent
to talk to the manufacturer of Closure Turf about the possible consequence on the durability of the material. If the quantities are considered inconsequential then the loss of sand is a non-issue

- The three skimmers are raised
- Basin A
  - Water and sediments have accumulated in basin following recent storm. The volume in the basin does not reduce the overall capacity significantly and is deemed not detrimental to its performance (Photo 7)
  - Although the rock pile around the risers appears to be totally clogged with fine sediments, impeded water flow, there was a low flow through the weep holes of the two risers (Photo 8)
  - The gas header providing gas to Flare 3 is supported on pedestal made with V-notched pieces of HDPE pipe. Some of out of alignment pedestals have not moved further out since first noted on December 12, 2017 (photo 9). However, with warmer days coming the thermal expansion/contraction of the pipe may lead to further movement of the supports and could lead to the fall of the pipe into the basin.
  - The downstream channel is still used as access road with pipes under earth fill (Photo 10). However, it appears that the capacity of the pipes accommodated the flow out of the basin. Capacity should be checked for the full flow capacity of the drainage channel should a large storm occur. Some sediments were observed in channel, probably erosion from slopes on south side of the channel.
- Basin B
  - Water has accumulated near the outlet (photo 11), but is flowing through weepholes in the riser as seen in the concrete channel downstream from the basin (photo 12),
  - the amount of accumulated sediment is not significant enough to affect the performance of the basin.
- Basin D
  - Clean
- Channel between Basin D and access road to Flare 9 and 10.
  - Geomembrane installed in the channel reinforced with new sandbags and stakes has fared fairly well during the last storm.
  - Sediment and debris have accumulated near the exit of one of the culvert (Photo 13) and should be cleaned
  - Note that there is still a risk of water flowing between the membrane and the concrete which could create problems in the future
- Drainage ditch along access road to Flare 9-11
  - Sediments and debris have accumulated over drainage grill blocking path for water (Photo 14)
- Earthen basin near Cell CC3
  - the basin is cleaned and available for storage
  - water flows into a drainpipe daylighting on the spillway. However, the pipe does not have a trash guard (Photo 15) to protect refuse and large debris to making their way into the Terminal Basin

Access Roads.

- Access road to administration pad
  - A slump (Photo 16) was observed near the end of the road on the hill on south side of the road (area circled in blue on Figure 1). Based on historical photographs posted on Google
Earth it appears the area that slumped is a soil stockpile. There are no gas collection system or drainage features on the slope that could be affected by soil movement. We did not observe any cracks or bulges on road or curbs.

- Main access road
  - The sloughing on the embankment of the access road observed during the previous visits is still there and does not seem to have worsened since our last visit (January 30, 2018) based on the inclination of utility pole (Photo 17)
- Access road to Flare 3 was not observed
- Access road at Flare 19-10 was not observed

Closure Turf on slopes of CC3:
- Closure turf has performed well during the last storm.
  - As noted and observed in Terminal Basin, sand has been washed away from the slopes.
  - Republic should check with Watershed Geosynthetics if there is cause for concern if large volumes of sand end up in the basin after each storm.

Retaining wall on San Fernando Road:
- Soil has eroded away from the slope and partially filled the drainage swale; on top of the wall (Photo 18) but soil has not accumulated against the fence. Therefore there is no concern at this time

Landfill for geotechnical and hydrological issues
- no other geotechnical issues than that noted at access roads were observed during the visit

Other observations
- The joint between the slab on the inside face of the terminal basin and the slab on the crest are separated and grass is growing through the gap (Photo 19). The gap is not indication of any potential damage to the basin but the gap should be filled up with an elastomeric compound that can accommodate minor movement (thermal expansion) and preclude water form infiltrating into hearthen fill under the concrete slabs.
- The shotcrete channels installed on the hills side above Flare 1 are in disrepair:
  - Undermined (Photo 20)
  - filled with sediments and vegetation (Photo 21)
  - cracked (Photo22)

2:00- 2:30 Close-out meeting with Republic Staff representative (Joshua Mills, Tuong-Phu Ngo, and Chris Coyle) to discuss findings of visit

FURTHER REVIEW NEEDED

COMMENTS
The wall along San Fernando should be monitored and when soil starts to accumulate against the fence it should be removed if this can be done safely.

Signed:
Photo 1: Waste placement at Cell CC4

Photo 2: Water and refuse in lined collection area around Cell CC4 Phase 2
Photo 3: Erosion on upstream face of earthen basin embankment at Cell CC3

Photo 4: Sediments in Terminal Basin Upstream of Gabion Wall
Photo 5: Water Accumulation in Terminal Basin

Photo 6: Coarse Sand Observed in Sediments in Terminal Basin
Photo 7: Stormwater Accumulation in Basin A

Photo 8: Stormwater Draining through Weepholes in Risers in Basin A
Photo 9: Leaning Supports of LFG Header to Flare 3 in Basin A

Photo 10: Sediments Accumulation Downgradient from Basin A – Pipes may not offer enough flow capacity
Photo 13: Sediment and debris on geomembrane lined channel between Basin B and Basin D

Photo 14: Blocked drainage ditch along access road to Flare 9-11
Photo 15: Unguarded intake to drain pipe in earthen basin at Cell CC3

Photo 16: Slump near Administration Pad
Figure 1: Area along Access Road to Administration Pad with Slump

Photo 17: Sloughing and Tilted Utility Pole on Embankment of Main Access Road near Entrance of Terminal Basin
Photo 18: Soil in drainage swale on top of wall along San Fernando Road

Photo 19: Gap between slabs at Terminal Basin
Photo 20: Undermined drainage channel on hillside near Flare 1

Photo 21: Sediment and vegetation in drainage channel on hillside near Flare 1
Photo 22: Cracks in drainage channel on hillside near Flare 1
March 29, 2018:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)
SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas
Discipline: Project Manager

Page: 1 of 2
Date: 3/29/18

Site Conditions: Clear, 50-80°F, 0-10 MPH winds

SITE LOG

Republic General Manager - Chris Coyle

Drove the Granada Hills neighborhood areas from 6:15 to 7:15 a.m. and there were no landfill odors detected. Met with Mike Lindsay (UltraSystems) and planned the monitoring sequence. Signed in, briefly met with Josh Mills, and proceeded to monitor the site and observed the following:

- Drove the Granada Hills school area at 7:45 and no landfill odors were detected.
- Drove the Rancho Cascades neighborhood and no landfill odors were detected.
- Illegal dumping was observed on Sierra Highway near the I-14 overpass. A door and wood debris was seen on San Fernando Road, south of the Jenson Filtration Plant entrance.
- Illegal dumping of soil, rock, and debris was observed on the road's shoulder along with approximately 15 tires under the I-5 overpass on San Fernando Road. This is outside of Republic's clean-up area. City of Los Angeles illegal dumping services should be notified (311).
- The terminal basin had a significant amount of sediment. Water was being retained to drop out sediment. Approximately 75-80% of the basin was covered with water. There was debris floating in the water near the eastern wall. One skimmer was in operation to release sediment-free water. The water level was within one foot of topping the outlet riser. There was a minimal amount of water flowing into the basin from the westside drainage system.
- There were additional areas of soil sloughing on the main access road's northern supporting slope near the terminal basin's entrance.
- The Closure Turf had no apparent problems. There were no gas emission/odors issues. The erosion that was observed on the western and eastern edges of soil slopes on the prior monitoring was repaired.
- The Posi-Shell covered areas that were impacted from prior rain event runoff erosion were being repaired. There were a minimal amount of areas not repaired. No gas odors were detected.
- There was ponded water in the tank farm HDPE-lined berm area.
- The gas recovery system at the leachate tank farm was not recovering all the vapors. When tanks 1069 and 1081 were receiving liquid, there was a strong localized vapor odor near these tanks. The vapor recovery needs to be increased when filling tanks. Automation of increasing the vacuum during filling should be considered.
- Old City South erosion was repaired and vegetation was greening up and doing well.
- The top deck of Cell CC-3A hydroseeded area had minimal germination and vegetation growth. The east-facing slopes were getting good vegetative cover.
Down-slope from well 2085 and the tote container and north of GW-3009D, there was a strong odor that carried for approximately 75 feet. There possibly was a prior liquids spill. The soil surface was treated with a hard polymer-type coating. The odor was being controlled to a localized area. Odor abatement by soil removal should be considered.

- Basin B had standing water covering approximately 40% of the basin. There was an average amount of sediment for this time of year. There was no discharge of water. The native vegetation hillsides had some wind-blown litter.
- The County top deck and slopes (County bowl) had minimal germination of the hydroseeding. The area had deep erosion rills.
- Basin D outlet channel had minimal sediment and tumbleweeds.
- Basin D was clear of sediment and dry.
- The wood waste and debris stockpiled on the Basin D adjacent dirt deck was approximately 80% removed.
- Basin A had a significant amount of sediment and standing water. The outlet risers were plugged with sediment and no water was flowing out.
- The City Deck B sage mitigation area was staked and ready for final contouring, seeding, and planting.
- The Deck C sage mitigation area was doing well. Non-native removal and cut-back of salt bush in some areas should be done soon.
- Cell CC-4 Part 1 and Part 2 were accepting waste.

Flare Operating Conditions:
- Flare 1 - 1692°F, 2337 SCFM, -57.51" vacuum, 38.64" out, 37% CH₄, 89 ppm H₂S, 0.7% O₂
- Flare 3 - not accessible due to wet road
- Flare 9 - 1657°F, 3555 SCFM, -63.8" vacuum, 41.48" out
- Flare 10 - shut down
- Flare 11 - 1651°F, 3536 SCFM

The gas-to-energy plant was using 9156 SCFM of recovered landfill gas, 46% CH₄, 1.4% O₂, 64 ppm H₂S. Total gas volume recovered (without Flare 3 volume) was 16,247 SCFM.

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FURTHER REVIEW NEEDED

COMMENTS

Signed: [Signature]
### SUNSHINE CANYON LANDFILL
### MITIGATION MONITORING SITE REPORT

**Monitor:** Mike Lindsay  
**Discipline:** Environmental Engineer  
**Site Conditions:** Clear, 52–80 °F, 2–10 mph, 48% RH

**Page:** 1 of 2  
**Date:** 03-29-2018  
**Thursday**

#### SITE LOG

1. Met with Jim Aidukas (UltraSystems), and checked into office and with Joshua Mills (Republic).
2. No odors are present in adjacent neighborhood or school at 7:40 AM.
3. No odors are present at the Rancho Cascades neighborhood at 7:55 AM.
4. Illegally dumped debris is present on Sierra Highway by the I-14 overpass.
5. Illegally dumped truck tires are present on San Fernando Road by the I-5 overpass.
6. Ponding water is covering 80% of the lower terminal basin. Waterline is within one foot from top of riser drains.
7. One of the three skimmers at terminal basin is draining clean water from basin.
8. Water trucks are applying water throughout site for dust control.
9. Outlet drainage for terminal basin is in good condition, with little sediment present.
10. Trash and debris has accumulated around the riser drains of terminal basin, and is floating on the water’s surface.

11. North slope of main haul road near terminal basin has additional soil sloughing at known location.
12. Flare 1 is operating at 2337 scfm, 1692 °F. Gas sample measured at 37 % Vol. CH4, 0.7 % Vol. O2, 89 ppm H2S and 80 ppm CO. Gas inlet temperature is at 119 °F.
13. City deck B has been cleared for revegetation.
14. City deck C sage mitigation area is growing well after recent rains.
15. PM-10 berm oak trees are growing well.
16. Leachate odor is present near tank number 69 at tank farm.
17. Traffic spotters are onsite to control traffic.
18. East hydroseeded slopes of Cell CC-3A are greening after recent rains.
20. Cell CC-3B is in good working order.
21. Drilling rig is operating on north base of Cell CC-3A.
22. Cell CC-4 Part 1 working area is in good order, including three tippers.
23. A strong liquid odor is present along roadway below north slope of Cell CC-3A near well 3009D.
24. Sediment basin B is in good overall condition, with some ponding water.
25. Flare 10 is offline.
26. Flare 9 is operating at 3565 scfm, 1667 °F. Gas sample measured at 46 % Vol. CH4, 1.4 % Vol. O2, 64 ppm H2S and over 500 ppm CO. Gas inlet temperature is at 133 °F. Blowers 1, 2, 3 and 4 are in operation.
27. Flare 11 is operating at 2582 scfm, 1662 °F.
28. County top deck is in good order.
29. Sediment basin D drainage channel is in good condition.
30. Sediment basin A has ponding water over 60% of basin.
31. Sediment basin A drainage channel has almost no drainage occurring due to sediment blocking the rock berm at riser drains.
32. Cell CC-4 Part 2 working area is in good order, including one tipper.
33. Woodpile near storage area continues to be removed.
34. Street sweepers are cleaning the haul roads.
35. Met with Joshua Mills and Tuong-phu Ngo (Republic), and discussed our site monitoring observations.

FURTHER REVIEW NEEDED

1. Remove dumped debris along Sierra Highway.
2. Remove dumped tires along San Fernando Road.
3. Eliminate ponding water at terminal basin.
4. Remove windblown trash at terminal basin.
5. Repair sloughing soil at north slope of main haul road near terminal basin.
6. Eliminate leachate odor from tank farm area.
7. Eliminate liquids odor near well number 3009D.
8. Eliminate ponding water at sediment basin A.

Signed: Michael W. Lindsey
Appendix IV
Meeting Logs
Independent Monitor Quarterly Report

Sunshine Canyon Landfill
Meeting Log for January 2018 Site Monitoring

January 10, 2018

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

Attendees:
   Gladys Gallardo, LACDPW
   James Aidukas, UltraSystems
   Mike Lindsay, UltraSystems

Discussion:

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

a. James Aidukas stated that ponding water is an issue throughout site, especially at Cell CC-4 Part 2.
   o Joshua Mills stated that they are pumping the water from the Part 2 drainage channel into trucks and sewer ing it. The side slopes had rainstorm-caused erosion, exposing trash.

b. James Aidukas stated that there were significant erosion rills on the northern slopes northeast of the top deck of Cell CC-3A.
   o Joshua Mills stated that they are looking into a solution to better control the erosion and the impacts to the area that is being revegetated.

c. James Aidukas stated that we observed that there was a large pond of rainwater in the landfill liquids tank farm berm area.
   o Joshua Mills stated that they were going to pump the liquids out today and that the liquids will be sewer ed.

d. James Aidukas stated that we observed that sediment was discharged into the terminal basin outlet channel during the prior rain storm.
   o Joshua Mills stated that a support on a new skimmer outlet riser broke during the rainstorm. The RWQCB was notified of the discharge and the water was sampled and sent for analysis. The lab results will be sent to them when results are available.

e. James Aidukas stated that the San Fernando Road retaining wall that was recently cleaned had soil and rocks slough from the hillside slope and filled portions of the wall’s drainage channel. The top of the wall will need to be cleaned again. An application of a surface coating on the slope’s soil should be investigated.
   o Joshua Mills stated that they will analyze what is occurring and will evaluate options and find a solution.

f. James Aidukas stated that the total volume of landfill gas being recovered today was 18,361 SCFM.
   o Joshua Mills acknowledged the statement.
g. Mike Lindsay stated that there was a strong odor detected coming from the north when we were on the top deck of Cell CC-3A.
   o Tuong-phu Ngo stated that that odor was probably from compost material being used to condition the soil for the revegetation project.

h. James Aidukas stated that unvegetated slopes throughout the site had erosion rills and areas of soil sloughing.
   o Joshua Mills stated that they are aware of the problem, and are getting those areas repaired.

i. James Aidukas stated that a Republic packer truck had litter blowing out of the top of the truck as it was driving up the main access road.
   o Joshua Mills stated that they will notify operations.

j. James Aidukas stated that the eastside concrete drainage channel south of Basin B had a wall buckling.
   o Joshua Mills stated that they will check all of the drainage channels and make note of areas that need repair.

k. James Aidukas asked what the rainfall totals were in the last two days.
   o Chris Coyle stated that they received 3.16 inches in three hours but did not know any totals.

The meeting was then adjourned.
January 30, 2018

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

Attendees:  
James Aidukas, UltraSystems  
Tarik Hadji-Hamou, SLR  
Mike Lindsay, UltraSystems

Discussion:

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

a. James Aidukas asked what the liner tear was, as noted in the LEA report.
   o Chris Coyle stated that it occurred at Cell CC-4 Part Z on the back slope transition, and that it was a tear caused by a bulldozer moving soil. It was immediately uncovered and repaired.

b. Tarik Hadji-Hamou stated that we observed that the terminal basin was already being cleared of sediment.
   o Joshua Mills stated that they were taking advantage of the dry weather conditions.

c. Tarik Hadji-Hamou stated that the sediment basin D drainage channel has been cleared of tumbleweed and sediment and that the channel liner was fastened and supported at the top of the channel wall by stakes and sandbags. The leading edge of the channel liner, however, was not fastened down and had debris under it.
   o Chris Coyle acknowledged the statement.

d. Tarik Hadji-Hamou stated that the landfill gas header pipe along the top of the sediment basin A south sidewall has moved due to soil sloughing and could be unstable.
   o Chris Coyle stated that the CC-4A Part 3 buttress now pending the County’s approval has the gas pipeline relocated in soil. The current location is temporary.

e. James Aidukas stated that the back slope of Cell CC-4 Part Z could have a drainage issue.
   o Chris Coyle stated that they will look at the drainage design for this area.

f. James Aidukas stated that the only odor detected today was that of a compost odor from the area north of the top deck of CC-3A.
   o Chris Coyle acknowledged the statement.

g. James Aidukas stated that the total volume of landfill gas being recovered today was 20,996 SCFM.
   o Joshua Mills acknowledged the statement.

h. James Aidukas stated that the old low-point leachate sump pump was turned off at the control panel.
   o Joshua Mills stated that the pump noted was obsolete, and has been replaced with a new sump pump system.
i. James Adukas asked if design calculations were performed for the secondary containment berm at the tank farm.
   o Joshua Mills stated that the bermed area was greater than one tank capacity, as required.

j. Mike Lindsay stated that windblown trash was observed on the native hillsides of sediment basin B.
   o Chris Coyle stated that when the wind settles they will remove the litter.

The meeting was then adjourned.
Sunshine Canyon Landfill
Meeting Log for February 2018 Site Monitoring

February 20, 2018

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

Attendees:
Vu Truong, LACDPW
James Aidukas, UltraSystems
Mike Lindsay, UltraSystems

Discussion:

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

a. James Aidukas stated that oxygen levels in the recovered landfill gas at Flare 9 through 11 and the gas-to-energy facility was fluctuating from 2.5% to 4.5% this morning.
   - Joshua Mills stated that work was being completed on the gas collection system and final tie-ins to the main header were being made today.

b. James Aidukas stated that the total volume of landfill gas being recovered today was 20,316 SCFM. He asked what the status was on expanding the existing gas-to-energy facility or using the gas for other renewable uses.
   - Joshua Mills stated that he did not know the status of the discussion with Sunshine Gas Producers and that he will talk with Chris Coyle for an update regarding gas reuse plans.

c. James Aidukas stated that we observed an area on the Closure Turf slope that's just above the main access road that appeared to have a half-moon image or depression.
   - Joshua Mills stated that was an area that the turf slipped and had a wrinkle. The turf was removed, repaired, and reinstalled.

d. James Aidukas asked what the new deep cut was on the Old City South landfill north-facing slope.
   - Joshua Mills stated that it is a drainage feature.

e. James Aidukas stated that there are erosion rills on the east-facing slopes below Cell CC-3A toward the County top deck.
   - Joshua Mills stated that they are constantly repairing erosion impacts and adding additional drainage controls.

f. James Aidukas stated that there were no offsite landfill odors detected today. There was a faint and random frequency onsite gas surface emissions near the CC-3A top deck irrigation water tank.
   - Joshua Mills acknowledged the statement, and said that he would look into the faint gas odor condition.

g. James Aidukas stated that the drilling rig on Cell CC-3B did not appear to have a vapor recovery container box in use.
Joshua Mills stated that it is there, but most likely out of view due to its low position. The vapor boxes used are set at ground level.

James Aidukas check photos taken from CC-3A and confirmed that the vapor recovery system was in operation. Joshua Mills and Vu Truong were notified.

James Aidukas stated that we observed that the waste woodpile on the soil deck above Basin D was being removed.

Mike Lindsay stated that windblown litter has continued to accumulate at the back of sediment basin B. There was also minor litter on the north native vegetated slope.

Mike Lindsay asked if we could obtain a copy of the perimeter gas monitoring probes location map.

James Aidukas stated that perimeter gas probe number 203D has a gas recovery pipeline hook-up to it but the pipe has a low point that is filled with liquids causing the vapor source to surge.

James Aidukas stated that the perimeter boundary markers are missing at some locations.

Vu Truong stated that there are erosion ruts on slopes that are being revegetated on the CC-3A eastern slopes and the County area north of these slopes.

Vu Truong asked what the fill plan is for Cell CC-4 Part 1.

James Aidukas asked when Cell CC-4 Part 3 will begin construction.

James Aidukas stated that there are two old oil wells located where the previous administration buildings were located and that they will need to be lowered and re-abandoned when moving the stockpiled soil in the CC-4 Part 3 future cell. Also, there is an oil well adjacent to the Flare 9, 10, and 11 alternate access road that will need to be re-abandoned.

James Aidukas asked if the liquids-to-sewer new system has been finished.

Tuong-phu Ngo stated that the final connection will be made in about two weeks.
r. Vu Truong asked who designed the liquids and gas recovery gabion block system, and if calculations were made regarding the vertical forces to ensure the gabion structure's integrity.
  o Joshua Mills stated that they will check into the calculations, and that the design team was a collaboration of Republic’s Arizona technical staff and the site geotechnical consultant.

The meeting was then adjourned.
Sunshine Canyon Landfill
Meeting Log for March 2018 Site Monitoring

March 14, 2018

Post-monitoring meeting with Joshua Mills and Tuong-phu Ngo (Republic)

Attendees:
Vu Truong, LACDPW
James Aidukas, UltraSystems
Tarik Hadj-Hamou, UltraSystems
Mike Lindsay, UltraSystems

Discussion:

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

a. Tarik Hadj-Hamou stated that soil continues to slough on the main access road slopes near the terminal basin entrance. He stated that there could be a slope stability issue and that Republic’s geotechnical engineer should inspect this slope.
   o Joshua Mills acknowledged the statement.

b. Tarik Hadj-Hamou stated that there is a lot of erosion throughout the site due to the recent rains.
   o Joshua Mills acknowledged the statement.

c. Tarik Hadj-Hamou stated that the retaining wall along San Fernando Road south of the landfill entrance has sloughing soil from the slope above and that soil and rock was accumulating against the wall’s fence and piles of soil were observed in front of the wall and along the curb. He suggested that Republic make cleaning it part of their routine maintenance.
   o Joshua Mills agreed, and stated that they just cleaned it out before the recent rains.

d. James Aidukas stated that the acceleration lane by the landfill entrance is covered with dirt from the retaining wall area.
   o Joshua Mills acknowledged the statement.

e. Tarik Hadj-Hamou stated that there was additional settlement in the City South Landfill soil stockpile area south of the office parking lot and the slope’s depression has increased.
   o Joshua Mills had no comment.

f. Tarik Hadj-Hamou stated that sediment Basins A and B were slow in draining water. It appears that sediment is preventing free flow out of the outlet risers.
   o Joshua Mills acknowledged the statement.

g. Mike Lindsay stated that windblown trash has accumulated in the northwest corner of the terminal basin, and is floating on the water’s surface.
   o Joshua Mills acknowledged the statement.
h. Mike Lindsay stated that an illegally-dumped couch and debris were observed on Sierra Highway by the I-14 overpass.
   o Joshua Mills acknowledged the statement.

i. Mike Lindsay stated that ponding water was observed at the low-flow drainage for Basin CC-3B and that the drain appears to be plugged with soil and debris.
   o Joshua Mills acknowledged the statement.

j. James Aidukas asked where the liquids from the Old City North tank farm connect to the City sewer.
   o Tuong-phu Ngo stated that the connection is near the deep well pump west of the San Fernando Road property wall.

k. Tarik Hadji-Hamou stated that there are gaps in the concrete near the terminal basin spillway, and suggested to grout the joints to stop any water intrusion as a maintenance item.
   o Joshua Mills stated that they will re-grout the joints.

l. Mike Lindsay stated that UltraSystems would like access to the gas monitoring probes.
   o Joshua Mills stated that Republic can take UltraSystems to the probes and unlock the caps for inspection.

m. Vu Truong asked when Cell CC-4 Part 2 will reopen for operations.
   o Joshua Mills stated that it may reopen tomorrow, and that the rains have delayed the slope repair process.

n. James Aidukas stated that the County top deck bowl has a low spot that is filled with rain water.
   o Joshua Mills stated that they will fill in the low spot.

o. Vu Truong stated that there are erosion rills above Cell CC-4.
   o Joshua Mills stated that they are going to reapply Posi-Shell at that location.

p. Tarik Hadji-Hamou stated that the access road that leads up to the Old City South decks is narrowing and asked if this was being done to cut a new bench.
   o Joshua Mills stated that they will look at the area and advise us.

q. Vu Truong asked when was the terminal basin's water sample taken and when was the analysis sent to the water board for analysis.
   o Joshua Mills stated that the analysis was sent to the water board in mid-January.

The meeting was then adjourned.
March 29, 2018

Post-monitoring meeting with Joshua Mills and Tuong-phu Ngo (Republic)

Attendees:
   James Aidukas, UltraSystems
   Mike Lindsay, UltraSystems

Discussion:

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

a. James Aidukas stated that emergency exit maps should be updated with the new secondary access road egress. These maps should be given to the local City fire station that would respond to any emergencies.
   o Joshua Mills acknowledged the statement.

b. James Aidukas stated that he drove the Granada Hills neighborhood from 6:15 to 7:15 and that there were no landfill odors detected, and that at 7:45 he and Mike Lindsay drove the Granada Hills school area and the Rancho Cascades neighborhood and no landfill odors were detected.
   o Joshua Mills acknowledged the statement.

c. James Aidukas stated that at the east-facing slope of Cell CC-3A, and down-slope from the well 2085 and the tote container and north of GW-3009D, there was a strong liquids-type odor that carried for approximately 75 feet. This was possibly from a prior liquids spill. The soil surface was treated with a hard polymer-type coating. The odor was being controlled to a localized area but odor abatement by soil removal should be considered.
   o Joshua Mills stated that they were having a problem with their forced main vacuum and that they will further investigate this localized condition.

d. James Aidukas stated that the gas recovery system at the leachate tank farm was not recovering all the odorous vapors. When tanks 1069 and 1081 were receiving liquid, there was a strong localized vapor odor near these tanks. The vapor recovery needs to be increased when filling tanks. Automation of increasing the vacuum during filling should be considered.
   o Tuong-phu Ngo stated that they will have SCS investigate the source of the odor and perhaps fine tune the well adjustments.

e. James Aidukas stated that the terminal basin has a significant amount of sediment and debris was on the surface of the water near the eastern wall. Also, the water level was close to topping the outlet risers.
   o Joshua Mills stated that they are considering using a net system to skim out the floating trash. Also, retention of the water to a high level was to maximize sediment removal.

f. James Aidukas stated that there were additional areas of soil sloughing on the main access road’s northern supporting slope near the terminal basin’s entrance.
   o Joshua Mills stated that GLA is coming out to analyze the slope and provide recommendations.
g. James Aidukas stated that there is some ponding water present below Cell CC-4 Part 2.
   - Joshua Mills acknowledged the statement.

h. Mike Lindsay stated that sediment Basins A and B are not draining water because the rock
   berm surrounding the outlet risers are blocked with sediment.
   - Joshua Mills acknowledged the statement.

i. Joshua Mills asked what the status was regarding the LACDPW auxiliary contract.
   - James Aidukas stated that UltraSystems has not begun any work.

The meeting was then adjourned.