

**Sunshine Canyon Landfill  
Independent Monitor  
Quarterly Site Monitoring Status Report  
July 1, 2012 – September 30, 2012**

*Prepared For:*

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

*And*

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



*Prepared By:*



**UltraSystems**  
environmental • management • planning

16431 Scientific Way  
Irvine, California 92618

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Sunshine Canyon Landfill Mitigation Monitoring – 2012 Third Quarter Summary/ City  
(see Excel Spreadsheets)

Sunshine Canyon Landfill Mitigation Monitoring – 2012 Third Quarter Summary/ County  
(see Excel Spreadsheets)

## Appendices

Appendix 1 – Relevant Site Photos

Appendix 2 – Site Visit Attendees by Date of Site Visit

### Reference Documents

Sunshine Canyon Landfill Independent Monitor Monthly Site Monitoring Status Report

July 1, 2012 – July 31, 2012

Sunshine Canyon Landfill Independent Monitor Monthly Site Monitoring Status Report

August 1, 2012 – August 31, 2012

Sunshine Canyon Landfill Independent Monitor Monthly Site Monitoring Status Report

September 1, 2012 – September 30, 2012

## Quarterly Status Report

The Quarterly Status Report is a compilation of the period's prior three monthly Site Monitoring Reports. After each site visit, the UltraSystems monitors who went to the Sunshine Canyon Landfill site each wrote a Mitigation Monitoring Site Report, updated the Mitigation Monitoring Summary Excel Tables for the City and County of Los Angeles noting any conditions and/or mitigation measures that need further review, and documented these areas in an appendix for that site visit date. Any issues that required immediate attention were reported to 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 Summary Tables record each site visit and frequency of monitoring, by date. 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 previous 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-Comment column are those action items that would improve monitoring efficiency by having reports and documents readily available. These are summarized in the Compliant with Comments section of the monthly reports and the Summary of Requested Documents of the Quarterly Reports. The City and County Excel Spreadsheets record the site conditions observed during monitoring.

This Quarterly Report provides the City of Los Angeles Department of Planning and the County of Los Angeles Department of Regional Planning with a concise status of the Mitigation Measure Monitoring for the period of July 1, 2012 to September 30, 2012. It includes:

1. The latest Mitigation Monitoring Summary Excel Tables (September monthly tables.) These tables record the areas of monitoring completed and the status of being compliant during monitoring for those areas over the designated quarter;
2. A Status Summary of Non-Compliant, Further Review Needed and Compliant with the requirements of the conditions and/or mitigation measures;
3. Relevant Site Photos showing site conditions;

4. Site visit attendees by date of site visit; and
5. Monthly Reports for each month of the designated quarter as reference documents.

## Site Visits During the Quarter

Six site visits were performed by UltraSystems during the July through September quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on July 10, 2012; July 25, 2012; August 7, 2012; August 22, 2012; September 12, 2012; and September 25, 2012. 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. Comments are also made for compliant conditions where the comment notes action that may be taken to provide documents to improve monitoring efficiency

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. For a more detailed site record, including more photos, refer to the individual monthly reports which are attached as reference documents.

## 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 monthly reports provide a summary of these comments where monitoring efficiency would be improved by having reports and documents readily available. These are summarized in the Summary of Requested Documents in the Quarterly Report.

## Non-Compliant

During UltraSystems' six 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.

### **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 (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.*

**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, which 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 on-site. The implementation of this plan will provide on-site mitigation greater than 1:1 to offset the loss of coastal sage scrub.*

**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.*

**Visual – 10.08 (County)**

*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;*

**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.FCUP (County)**

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

**Current Status/Comments** - To date, very little hydroseed has germinated within the interim cover areas and the coastal sage mitigation areas have had minimal success. In the second quarter of 2012, Republic's biologist consultant was directed to evaluate the performance of the revegetation plan that was implemented. The results of the evaluation and any recommendations for corrective action was to be provided to them by the consultant. In July, Republic directed their biologist consultant to develop new plans and procedures to obtain the desired results. In August, different ways of adjusting the soil pH by applying lime was tested within the City jurisdiction. In September, a coastal sage plan was presented to the County Task Force. A test plot for interim cover revegetation planting is scheduled to be planted in October 2012. The first evaluation of this test plot will occur during the first quarter of 2012. Soil treatment with lime is now being tested on slopes in City North, above the scalehouse.

**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, 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.*

**Fugitive Dust - 45.F (County)**

*Inactive Areas Monitoring*

*F. Inactive areas of exposed dirt that have been sealed shall be regularly monitored to determine the need for additional sealing and to prevent unauthorized access that might disturb the sealant. If additional sealing treatment is required, the Permittee shall promptly apply such treatment to assure full control of the soil particles;*

**Current Status/Comments** - Areas with no established vegetation should be monitored for fugitive dust. Areas creating fugitive dust should be controlled by water and/or soil sealant.

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

*Offsite Mitigation Sites*

*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 CDFG, Corps, SWRCB, and other regulatory agencies in conjunction with the City and project proponent.*

**Current Status/Comments** - A new schedule for the start of construction to create wetlands at the Chatsworth Reservoir site should be developed and provided to the City of Los Angeles Department of City Planning and the County of Los Angeles Department of Regional Planning.

**M - 4.2.12 / 25 - Refuse Trucks (City)**

The following measures will be applied to the project proponent's operated trucks that utilize the project site.

- c. Using a progressive fee schedule, the project proponent shall encourage trucks to carry full loads.

**Landfill Capacity - 27 (County)**

*The Permittee shall charge its customers higher tipping fees for delivering partial truck loads to the Facility, and for delivering trucks to the Facility during peak commuting hours. Notwithstanding the preceding sentence, in lieu of charging higher tipping fees, the Permittee may implement some other program, as approved by the Department of Public Works, to discourage this type of activity by its customers.*

**Traffic/Circulation - 8.08 (County)**

*The permittee shall charge its customers higher tipping fees for delivering partial truck loads to the Facility, and for delivering trucks to the Facility during peak commuting hours. Notwithstanding the preceding sentence, in lieu of charging higher tipping fees, the permittee may implement some other program, as approved by the Department of Public Works, to discourage this type of activity by its customers.*

**Current Status/Comments** - A program should be developed to charge differential fees for partially loaded trucks in order to avoid peak commuting hours, and this program should be provided to the City of Los Angeles Department of City Planning and the County of Los Angeles Department of Regional Planning.

**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.*

**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** - An updated schedule for construction and start of operations of the gas-to-energy facility should be provided to the agencies.

**Alternative Fuel Vehicles - 77.B-H. (County)**

*B. Within the first year after the Effective Date, the Permittee shall purchase, and put into operation, 10 alternative fuel Refuse collection trucks or transfer trucks at the Facility, to the extent deemed technologically and economically feasible by the TAC;*

*C. Within the first year after the Effective Date, the Permittee shall prepare and submit an alternative fuel vehicle report to the TAC for review and approval. The report shall contain information on available alternative fuel technologies and their economic feasibility, as well as other information deemed necessary by the TAC to determine the feasible use of alternative fuels at the Facility;*

*D. Within the first year after the Effective Date, the Permittee shall design and implement at least one heavy-duty, alternative fuel off-road equipment pilot program, to the extent deemed technologically and economically feasible by the TAC;*

*E. Within three years after the TAC determines that non-diesel, alternative fuel vehicles are technologically and economically feasible:*

*1. The Permittee shall require all transfer trucks entering the Facility to be non-diesel alternative fuel vehicles; and*

*2. All transfer trucks and collection trucks owned or leased by the Permittee and used at the Facility shall be non-diesel alternative fuel vehicles;*

*F. Within six years after the TAC determines the appropriate technological and economic feasibility, 75 percent of all of truck trips entering the Landfill, with a Solid Waste capacity of at least nine tons, shall be made by non-diesel alternative fuel vehicles;*

*G. With the assistance of the SCAQMD and the DPH-LEA, the Permittee shall use its best efforts to participate in a clean fuel demonstration program with one or more types of off-road heavy-duty equipment; and*

*H. As part of its annual report to the TAC required by the IMP, the Permittee shall submit an ongoing evaluation of its compliance with each component of this Condition No. 77. The Permittee may appeal the requirements of this Condition No. 77 to the Director of the Department in accordance with the procedure described in Condition No. 11 for the appeal of a notice of Violation, but only on the bases of whether a particular alternative fuel is technologically or economically feasible.*

**Air Quality 6.11 (County)**

*The permittee shall be subject to the following requirements regarding non-diesel, alternative fuel vehicles and equipment:*

*a. Upon the Effective Date of this grant, all light-duty vehicles operated at the facility shall be alternative fuel vehicles, to the extent deemed technologically and economically feasible by the TAC;*

- b. Within the first year after the Effective Date of this grant, there shall be 10 alternative fuel refuse collection trucks or transfer trucks at the Facility, to the extent deemed technologically and economically feasible by the TAC;*
- c. Within the first year after the Effective Date, the permittee shall prepare and submit an alternative fuel vehicle report to the TAC for review and approval. The report shall contain information on available alternative fuel technologies and their economic feasibility, as well as other information deemed necessary by the TAC to determine the feasible use of alternative fuels at the Facility;*
- d. Within the first year after the Effective Date, the permittee shall design and implement at least one heavy-duty, alternative fuel off-road equipment pilot program, to the extent deemed technologically and economically feasible by the TAC;*
- e. Within three years after the TAC determines that non-diesel, alternative fuel vehicles are technologically and economically feasible:*
- 1. The permittee shall require all transfer trucks entering the Facility to be nondiesel alternative fuel vehicles; and*
  - 2. All transfer trucks and collection trucks owned or leased by the permittee and used at the Facility shall be non-diesel Alternative fuel vehicles;*
- f. Within six years after the TAC determines the appropriate technological and economic feasibility, 75 percent of all of truck trips entering the Landfill, with a Solid Waste capacity of at least nine tons, shall be made by non-diesel alternative fuel vehicles;*
- g. With the assistance of the SCAQMD and the DPH-LEA, the permittee shall use its best efforts to participate in a clean fuel demonstration program with one or more types of off-road heavy-duty equipment; and*
- h. As part of its annual report to the TAC required by the IMP, the permittee shall submit an ongoing evaluation of its compliance with each component of this Condition No. 77. The permittee may appeal the requirements of the Condition No. 77 to the Director of the Department in accordance with the procedure described in Condition No. 11 for the appeal of a notice of violation, but only on the bases of whether a particular alternative fuel is technologically or economically feasible.*

**Current Status/Comments** - A status report should be provided to the City of Los Angeles Department of City Planning and the County of Los Angeles Department of Regional Planning.

**M-4.2.13(33) (City)**

*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.*

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

*If an odor problem should develop, appropriate control measures shall be implemented. These measures include the application of daily cover material or more frequent application of the cover material to seal*

*the landfill surface, or adjustments to the wells, equipment, and operation of the LFG collection and recovery system.*

**Current Status/Comments** – On August 22, 2012, a condensate line on the compressor discharge knock-out drain at Flare 1 was noted to be corroded and seeping condensate. A flange on the discharge of Blower A was noted to be leaking gas. These conditions were reported to the landfill gas systems manager. They were aware of the flange leak and had ordered repair parts. This leak was fixed by the next monitoring visit, on September 12th. The corroded pipe on the Flare 1 knockout drainpipe was investigated and repair parts were received on September 25th. Repairs were underway on September 25th.

On September 12, an abandoned capped gas collection pipe was noted to be leaking gas condensate. This condition was reported to Republic's gas systems manager. Repair parts were placed on order to make the repair.

**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.*

**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, channelized, and conveyed into Sedimentation Basin A. 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 2.01 (County)**

*To insure that leachate within the landfill is minimized, surface water runoff will be intercepted and diverted around the landfill. The method of diversion that will be implemented includes the use of lined interceptor ditches placed along the edges of the fill area. This system of ditches will flow into the monitored sedimentation basin.*

**Surface Water 2.02 (County)**

*The surface water runoff collected in interceptor ditches will be returned to the flood control channel below the operational portion of the site after passing through the monitored sedimentation basin to reduce final sediment content.*

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

*As development of the site proceeds, surface drainage control facilities will be maintained so that surface water runoff is diverted from the working faces and isolated from contact with the waste. On-site drainage control channels will be designed per CCR, Title 23, Division 3 Chapter 15, Article 3, § 2546, which mandates the requirements for a capital storm event (100-year, 24-hour precipitation).*

### **Current Status/Comments – Resolved**

In July, damage to the concrete gunite lining in the bottom of the Westside drainage ditch and the side walls of a portion of the Basin D North drainage ditch between Basin D and flare 9 was observed. The Basin D North drainage ditch also had sediment and vegetation blocking portions of the drainage ditch. The Eastside concrete drainage system was under construction extending it south of the temporary flare to the concrete inlet to the terminal basin.

In August, the Eastside concrete drainage system was still under construction extending it south of the temporary flare to the terminal basin inlet system. The cleaning and repair of the Basin D North drainage system was scheduled to be done in September.

In September, the Basin D North drainage ditch between Basin D and Flare 9 was cleaned and repaired. The Eastside concrete and asphalt drainage ditch construction was completed. This drainage system appeared to be ready for handling runoff. Damage to the concrete gunite bottom of a small area in the Westside drainage ditch was still observed.

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

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

### **Surface Water – 2.04 (County)**

*The proposed Project will have a sedimentation basin within the canyon designed to accommodate a capital storm requirement with a 24-hour time duration.*

### **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 basis shall be monitored in accordance with NPDES requirements. Sediment shall be cleaned out of the sedimentation basins after every significant storm.*

### **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 – Resolved**

In July, Basin A and Basin B had no standing water and the sediment in the basin was dry. The majority of the sediment in the Terminal Basin was dry.

In August, all of the sediment had been removed and the outlet risers cleaned at Basins A and B. Basin D had been graded and cleared of vegetation. The terminal basin had approximately 75% of the sediment removed. Sediment was stockpiled on the City South lower top deck for use as a soil amendment.

In September, all but the terminal basin outlet risers were repaired and rock placed around them. The terminal basin risers were scheduled for the first week of October.

The basins are clean and appear to be ready for handling runoff.

#### **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 – Resolved**

During the April 25, 2012 site visit an access gate along San Fernando Road was observed to be unlocked and the water meter vault was missing its cover. The access gate in the 100-acre buffer zone at the south entrance to the oil field was also observed to be unlocked. During the May 15 2012 site visit the Fernando Road access gate was repaired and locked; the water meter vault cover was in place; and the access gate in the 100-acre buffer was repaired and locked. On August 22, 2012, the south oil field gate was noted to be unlocked.

#### **Biota – 4.10 (County)**

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

#### **Current Status/Comments**

Approximately 94 out of 100 Big Cone Fir trees planted in the fall of 2010 are surviving. Republic is currently working with the County Forester, who is either picking a different species for the six remaining mitigation trees that are required or possibly exchanging them for oaks because of the lack of

availability of replacement Big Cone Fir trees. Republic is awaiting input from the County Forester. An update should be provided to the City of Los Angeles Department of City Planning and the County of Los Angeles Department of Regional Planning.

**Visual 10.11 (County)**

*The permittee's on-site Litter Control Program will include continuous patrol of the access road and working face during hours of operations and mobilize clean-up crews on a regular basis for litter pick-up along designated public access routes, O'Melveny Park and the adjacent neighborhood.*

**Current Status/Comments** - Litter was observed along the roadway on Sierra Highway between San Fernando Road and the Highway 14 overpass. Some illegal dumping was also observed.

**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). If vegetation clearing needs to occur, surveys shall be conducted by biologists to determine active migratory bird nests. All active migratory bird nests shall be protected until the young become independent.*

**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. If active nests are found, no construction activity shall take place within 500 feet of an active nest until the young have fledged. The 500-foot perimeter around each active nest shall be fenced. Trees containing nests shall only be removed during the nonbreeding season.*

**Ecological Significance 62 (County)**

**Archaeology and Paleontology**

*The Permittee shall develop and implement a program to identify and conserve all significant archaeological and paleontological materials found on-site 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 – Resolved**

A bird survey was performed by Republic's biologist prior to grading for the gas-to-energy and Flare 9 site pads. A red-tailed hawk nest was observed outside of the site grading boundary, and restrictive boundaries were set for the excavation and grading. Monitoring of the nest and construction activity was conducted while grading occurred. Monitors' notes indicated that there was no incursion into the

nest area during the construction activity. The excavation, grading and construction in this area have been completed.

Archaeology and paleontology monitoring was performed on the area to be graded for the Flare 9 and gas-to-energy sites. No archaeological resources were discovered. Also, no paleontological resources of significance were discovered. Shell impressions were observed but no resources were recovered.

## 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 process.

- a) Design report for the LCTF
- b) Current Fill Sequence Plan
- c) A plan showing areas inactive for 180 days or longer with records tracking fill areas and interim reclamation and revegetation, including the timing of proposed work, as well as a plan showing current and projected areas to be within ten feet of the limits of fill
- d) Maps showing areas that are at final elevation and bench ditches that will connect to drainage ditches to protect against natural surface runoff
- e) Current erosion control plans
- f) Site drainage plans, including surface and underdrains systems with complementing revegetation plan
- g) 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
- h) Comprehensive geotechnical reports
- i) 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/County, as shown on the Mitigation Monitoring Summary Excel 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. Furthermore, monitoring of the tasks on these Excel spreadsheets track progress toward being fully compliant. Notwithstanding the above, air quality issues are not being actively monitored by UltraSystems, and may not be compliant.

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

## **Sunshine Canyon Landfill September 2012 Mitigation Monitoring Summary / City – See Excel Spreadsheet**

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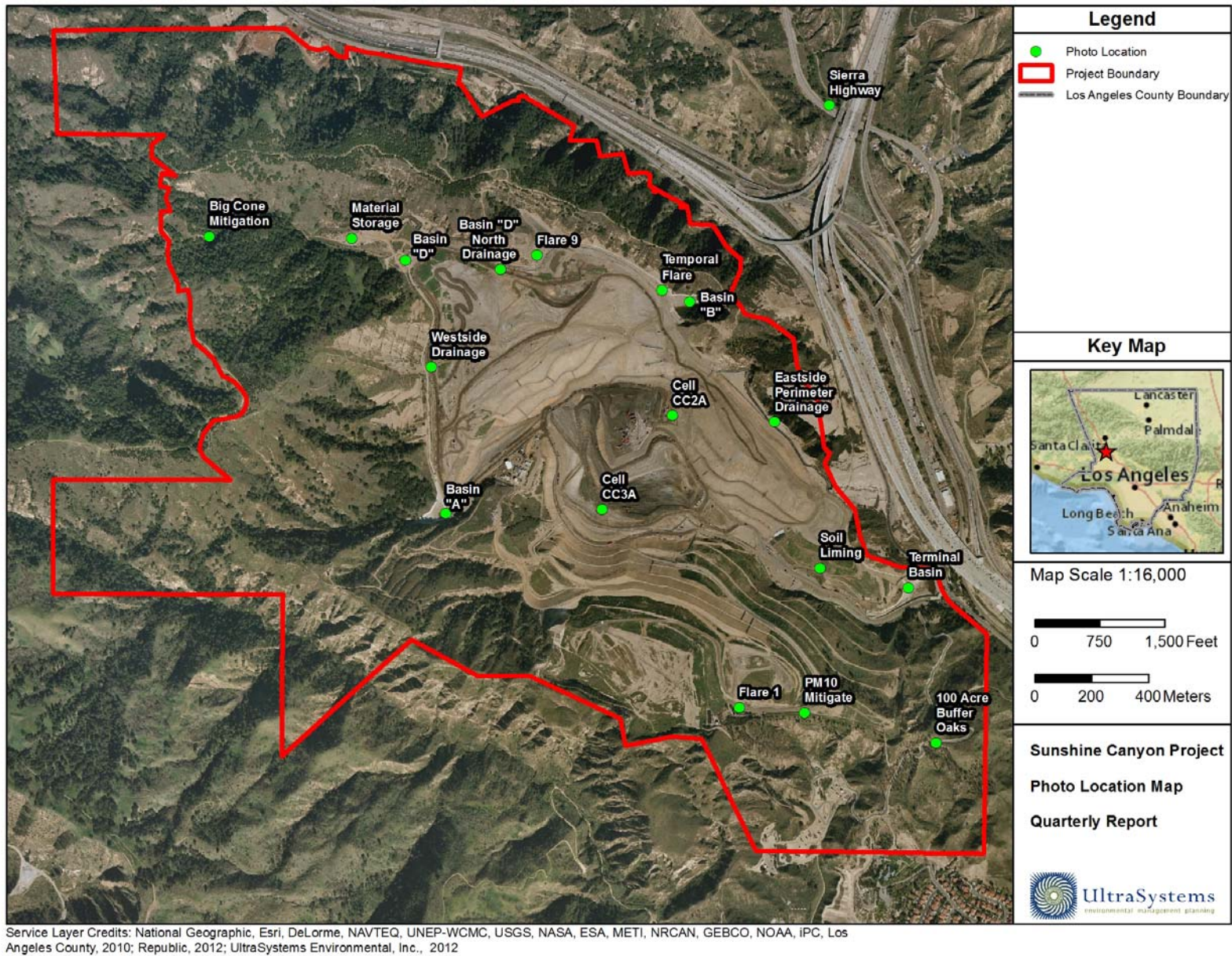
# **Sunshine Canyon Landfill September 2012 Mitigation Monitoring Summary / County – See Excel Spreadsheet**

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# Appendix 1

## Relevant Site Photos

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**Photo 1: Basin A (July 25, 2012)**



**Photo 2: Basin A (July 25, 2012)**



**Photo 3: Basin A (July 25, 2012)**



**Photo 4: Basin A (August 7, 2012)**



**Photo 5: Basin A (August 7, 2012)**



**Photo 6: Basin A (August 7, 2012)**



**Photo 7: Basin A (August 22, 2012)**



**Photo 8: Basin A (August 22, 2012)**



**Photo 9: Basin A (August 22, 2012)**



**Photo 10: Basin A (September 12, 2012)**



**Photo 11: Basin A (September 12, 2012)**



**Photo 12: Basin A Outlet Risers (September 12, 2012)**



**Photo 13: Basin A (September 25, 2012)**



**Photo 14: Basin A (September 25, 2012)**



**Photo 15: Westside Drainage (July 25, 2012)**



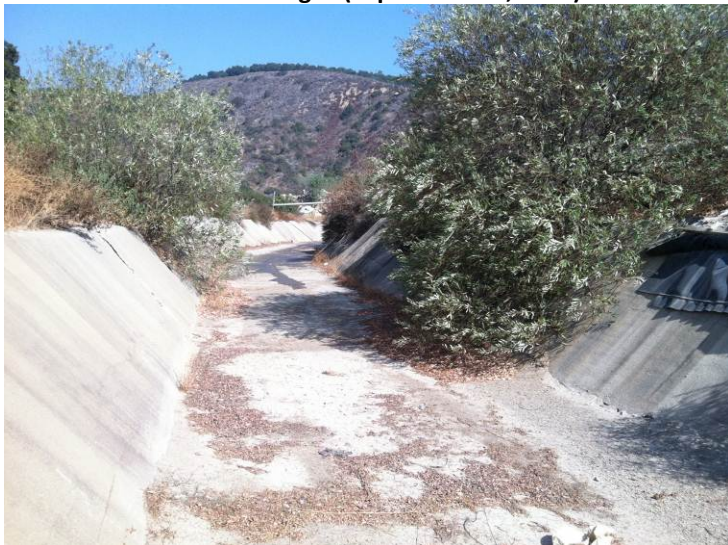
**Photo 16: Westside Drainage (July 25, 2012)**



**Photo 17: Westside Drainage (September 12, 2012)**



**Photo 18: Westside Drainage (September 12, 2012)**



**Photo 19: Westside Drainage (September 12, 2012)**



**Photo 20: Basin D (July 25, 2012)**



**Photo 21: Basin D (July 25, 2012)**



**Photo 22: Basin D (August 7, 2012)**



**Photo 23: Basin D (August 7, 2012)**



**Photo 24: Basin D Outlet Risers (September 12, 2012)**



Photo 25: Basin D (September 25, 2012)



Photo 26: Basin D (September 25, 2012)



Photo 27: Basin D (September 25, 2012)



Photo 28: Basin D North Drainage (July 10, 2012)



**Photo 29: Basin D North Drainage (July 10, 2012)**



**Photo 30: Basin D North Drainage (July 10, 2012)**



**Photo 31: Basin D North Drainage (July 25, 2012)**



**Photo 32: Basin D North Drainage (July 25, 2012)**



**Photo 33: Basin D North Drainage (July 25, 2012)**



**Photo 34: Basin D North Drainage (July 25, 2012)**



**Photo 35: Basin D North Drainage (July 25, 2012)**



**Photo 36: Basin D North Drainage (August 22, 2012)**



**Photo 37: Basin D North Drainage (August 22, 2012)**



**Photo 38: Basin D North Drainage (August 22, 2012)**



**Photo 39: Basin D North Drainage (September 12, 2012)**



**Photo 40: Basin D North Drainage (September 12, 2012)**



**Photo 41: Basin D North Drainage (September 12, 2012)**



**Photo 42: Basin D North Drainage (September 25, 2012)**



**Photo 43: Basin D North Drainage (September 25, 2012)**



**Photo 44: Basin D North Drainage (September 25, 2012)**



**Photo 45: Basin D North Drainage (September 25, 2012)**



**Photo 46: Basin B (July 10, 2012)**



**Photo 47: Basin B (August 7, 2012)**



**Photo 48: Basin B (August 7, 2012)**



**Photo 49: Basin B (August 22, 2012)**



**Photo 50: Basin B (September 12, 2012)**



**Photo 51: Basin B (September 12, 2012)**



**Photo 52: Basin B (September 25, 2012)**



**Photo 53: Basin B (September 25, 2012)**



**Photo 54: Eastside Perimeter Drainage (July 10, 2012)**



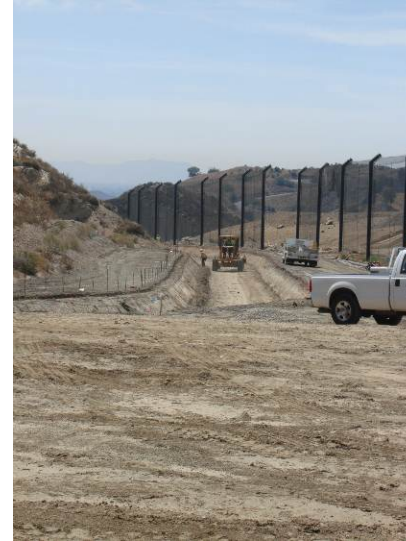
**Photo 55: Eastside Perimeter Drainage (July 10, 2012)**



**Photo 56: Eastside Perimeter Drainage (July 10, 2012)**



**Photo 57: Eastside Perimeter Drainage (July 10, 2012)**



**Photo 58: Eastside Perimeter Drainage (July 10, 2012)**



**Photo 59: Eastside Drainage Grading to New Concrete Lined Ditch (July 25, 2012)**



**Photo 60: Eastside Drainage Grading to New Concrete Lined Ditch (July 25, 2012)**



**Photo 61: Eastside Perimeter Drainage (August 22, 2012)**



**Photo 62: Eastside Perimeter Drainage (August 22, 2012)**



**Photo 63: Eastside Perimeter Drainage to Terminal Basin (September 12, 2012)**



**Photo 64: Eastside Perimeter Drainage to Terminal Basin (September 12, 2012)**



**Photo 65: Eastside Perimeter Drainage (September 25, 2012)**



**Photo 66: Eastside Perimeter Drainage (September 25, 2012)**



**Photo 67: Terminal Basin (July 25, 2012)**



**Photo 68: Terminal Basin (July 25, 2012)**



**Photo 69: Terminal Basin (August 22, 2012)**



**Photo 70: Terminal Basin (September 12, 2012)**



**Photo 71: Terminal Basin (September 25, 2012)**



**Photo 72: Flare 9 (July 10, 2012)**

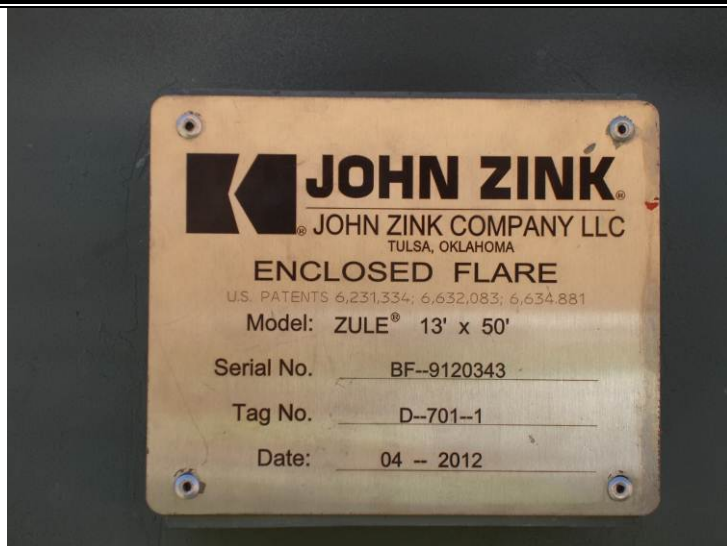


Photo 73: Flare 9 (July 10, 2012)



Photo 75: Flare 9 Gas Blowers (July 10, 2012)



Photo 74: Flare 9 Gas Blowers (July 10, 2012)



Photo 76: Flare 9 Gas Blowers (July 10, 2012)



**Photo 77: Flare 9 Inlet Gas Chamber (August 7, 2012)**



**Photo 78: Flare 9 Gas Blower (August 22, 2012)**



**Photo 79: Flare 9 Compressor Skid (August 22, 2012)**



**Photo 80: Temporary Flare (July 10, 2012)**



Photo 81: Temporary Flare (July 10, 2012)



Photo 82: Temporary Flare Gas Blower (July 10, 2012)



Photo 83: Material Storage Area (July 10, 2012)



Photo 84: Material Storage Area (July 25, 2012)



**Photo 85: Material Storage Area (August 7, 2012)**



**Photo 86: Material Storage Area (August 7, 2012)**



**Photo 87: Cell CC3A (July 25, 2012)**



**Photo 88: Cell CC3A (July 25, 2012)**



Photo 89: Cell CC3A (July 25, 2012)



Photo 90: Cell CC3A (July 25, 2012)



Photo 91: Cell CC3A (August 7, 2012)



Photo 92: Cell CC3A (August 7, 2012)



Photo 93: Cell CC3A (August 7, 2012)



Photo 94: Cell CC3A (August 7, 2012)



Photo 95: Cell CC3A (August 22, 2012)



Photo 96: Cell CC3A (August 22, 2012)



**Photo 97: Cell CC3A – Working Face (September 12, 2012)**



**Photo 98: Cell CC3A – Working Face (September 12, 2012)**



**Photo 99: Working Face (July 10, 2012)**



**Photo 100: Working Face (July 10, 2012)**



**Photo 101: Working Face (July 10, 2012)**



**Photo 102: Working Face (July 25, 2012)**



**Photo 103: Working Face (August 7, 2012)**



**Photo 104: Working Face (August 7, 2012)**



Photo 105: Working Face (August 7, 2012)



Photo 106: Working Face (August 22, 2012)



Photo 107: Working Face (August 22, 2012)



Photo 108: Working Face (August 22, 2012)



**Photo 109: Working Face (September 12, 2012)**



**Photo 110: Working Face (September 12, 2012)**



**Photo 111: Working Face (September 25, 2012)**



**Photo 112: Working Face (September 25, 2012)**



**Photo 113: Site (July 10, 2012)**



**Photo 114: Site (July 10, 2012)**



**Photo 115: Site (July 10, 2012)**



**Photo 116: Site (July 10, 2012)**



**Photo 117: Site (July 25, 2012)**



**Photo 118: Site (July 25, 2012)**



**Photo 119: Site (July 25, 2012)**



**Photo 120: Site (July 25, 2012)**



**Photo 121: Site (August 7, 2012)**



**Photo 122: Site (August 7, 2012)**



**Photo 123: Site (August 7, 2012)**



**Photo 124: Site (August 7, 2012)**



**Photo 125: Site (August 7, 2012)**



**Photo 126: Site (August 7, 2012)**



**Photo 127: Site (August 7, 2012)**



**Photo 128: Site (August 22, 2012)**



**Photo 129: Site (August 22, 2012)**



**Photo 130: Site (August 22, 2012)**



**Photo 131: Site (August 22, 2012)**



**Photo 132: Site (September 12, 2012)**



**Photo 133: Site (September 12, 2012)**



**Photo 134: Site (September 12, 2012)**



**Photo 135: Site (September 25, 2012)**



**Photo 136: Site (September 25, 2012)**



**Photo 137: Site (September 25, 2012)**



**Photo 138: Site (September 25, 2012)**



**Photo 139: Site (September 25, 2012)**



**Photo 140: Sierra Highway Near I-14 (July 10, 2012)**



**Photo 141: Sierra Highway (July 10, 2012)**



**Photo 142: Sierra Highway Near I-14 (July 25, 2012)**



**Photo 143: Sierra Highway Near I-14 (August 7, 2012)**



**Photo 144: Sierra Highway (August 7, 2012)**



**Photo 145: Sierra Highway Near I-14 (August 22, 2012)**



**Photo 146: Sierra Highway (September 12, 2012)**



**Photo 147: Sierra Highway Near I-14 (September 25, 2012)**



**Photo 148: Sierra Highway (September 25, 2012)**



**Photo 149: Abandoned Gas Collection Line (September 12, 2012)**



**Photo 150: Abandoned Gas Collection Line (September 12, 2012)**



**Photo 151: Abandoned Gas Collection Line (September 12, 2012)**



**Photo 152: Abandoned Gas Collection Line Liquid Leak (September 25, 2012)**



Photo 153: Flare 1 (August 22, 2012)



Photo 154: Flare 1 Knockout Condensate Drain (September 12, 2012)



Photo 155: Flare 1 Knockout Condensate Drain (September 12, 2012)



Photo 156: Flare 1 Knockout Condensate Drain (September 25, 2012)



**Photo 157: Flare 1 Blower A Outlet Piping (September 25, 2012)**



**Photo 158: Cell CC2A Bentonite Mat Cover (September 12, 2012)**



**Photo 159: Cell CC2A Bentonite Mat Cover (September 12, 2012)**



**Photo 160: Cell CC2A Bentonite Mat Cover (September 12, 2012)**



**Photo 161: Big Cone Douglass Fir Tree Mitigation Site (August 7, 2012)**



**Photo 162: PM 10 Berm Oak Trees Mitigation Site (August 7, 2012)**



**Photo 163: PM 10 Berm Oak Trees Mitigation Site (August 7, 2012)**



**Photo 164: PM 10 Berm Oak Trees Mitigation Site (September 25, 2012)**



**Photo 165: 100-Acre Buffer Oak Tree Mitigation (August 7, 2012)**



**Photo 166: 100-Acre Buffer Oak Tree Mitigation (August 7, 2012)**



**Photo 167: 100-Acre Buffer Oak Tree Mitigation (September 25, 2012)**



**Photo 168: 100-Acre Buffer Oak Tree Mitigation (September 25, 2012)**



**Photo 169: Coastal Sage Mitigation – City Upper Deck (July 10, 2012)**



**Photo 170: Coastal Sage Mitigation – City Upper Deck (July 10, 2012)**



**Photo 171: Coastal Sage Mitigation Westside Revegetation Plot (July 25, 2012)**



**Photo 172: Westside Revegetation Plot (July 25, 2012)**



**Photo 173: Westside Revegetation Plot (August 7, 2012)**



**Photo 174: Westside Revegetation Plot (August 7, 2012)**



**Photo 175: Coastal Sage Mitigation Site ("Middle Deck" Area)**



**Photo 176: Coastal Sage Mitigation Site ("Middle Deck" Area)**



**Photo 177: City Restoration Site (September 25, 2012)**



**Photo 178: City Restoration Site (September 25, 2012)**



**Photo 179: City Restoration Site (September 25, 2012)**



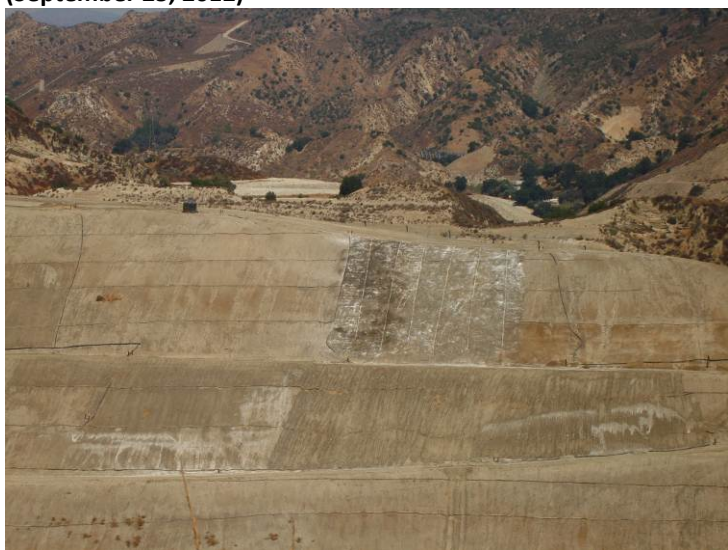
**Photo 180: City Lower Deck Basin Soil Placement (August 22, 2012)**



**Photo 181: Basin Soil Stockpiled City South Lower Top Deck (September 25, 2012)**



**Photo 182: Stockpiled Soil (September 25, 2012)**



**Photo 183: Soil Liming Plots (August 22, 2012)**



**Photo 184: Interim Cover Areas Lime Treatment Area #1 (September 25, 2012)**



**Photo 185: Interim Cover Areas – Lime Treatment Area #2  
(September 25, 2012)**



**Photo 186: Interim Cover Areas – Lime Treatment Area #2  
(September 25, 2012)**

## Appendix 2

### Site Visit Attendees by Date of Site Visit

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**UltraSystems Staff; Field of Expertise:**

**James Aidukas; Project Manager, Permitting, and Operations/ Engineer**

**Tarik Hadj-Hamou; Civil/ Geotechnical Engineer**

**Ian Hutchison; Hydrologist/ Engineer**

**Mike Lindsay; Air Quality, Noise, Vehicle Emissions, Environmental Specialist/ Engineer**

**Susan Foster; Hazardous Waste–Risk of Upset/ Engineer**

**July 10, 2012:** James Aidukas (UltraSystems), Mike Lindsay (UltraSystems), Tarik Hadj-Hamou (UltraSystems)

**July 25, 2012:** James Aidukas (UltraSystems), Ian Hutchison (UltraSystems), Susan Foster (UltraSystems)

**August 7, 2012:** James Aidukas (UltraSystems), Mike Lindsay (UltraSystems), Tarik Hadj-Hamou (UltraSystems)

**August 22, 2012:** James Aidukas (UltraSystems), Mike Lindsay (UltraSystems)

**September 12, 2012:** James Aidukas (UltraSystems), Mike Lindsay (UltraSystems)

**September 25, 2012:** James Aidukas (UltraSystems), Mike Lindsay (UltraSystems)