Topock Project Executive Abstract

Document Title: Implementation Report for the Time-Critical Removal Action at AOC 4, Pacific Gas and Electric Company Topock Compressor Station, Needles, California Submitting Agency: Department of the Interior (DOI) Final Document? ☐ Yes ☒ No	Date of Document: 3/15/2011 Who Created this Document?: (i.e. PG&E, DTSC, DOI, Other) PG&E
Priority Status: ☒ **HIGH** ☐ **MED** ☐ **LOW** Is this time critical? ☒ Yes ☐ No Type of Document: ☐ Draft ☒ Report ☐ Letter ☐ Memo ☐ Other / Explain: Work Plan	Action Required: ☐ Information Only ☒ Review & Comment Return to: DOI By Date: TBD with DOI ☐ Other / Explain:
What does this information pertain to? ☐ Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA)/Preliminary Assessment (PA) ☐ RCRA Facility Investigation (RFI)/Remedial Investigation (RI) (including Risk Assessment) ☐ Corrective Measures Study (CMS)/Feasibility Study (FS) ☐ Corrective Measures Implementation (CMI)/Remedial Action ☐ California Environmental Quality Act (CEQA)/Environmental Impact Report (EIR) ☒ Interim Measures Other / Explain:)	Is this a Regulatory Requirement? ☒ Yes ☐ No If no, why is the document needed?
What is the consequence of NOT doing this item? What is the consequence of DOING this item? Implementation Report following AOC 4 TCRA completion in December 2010 is required to be in compliance with DOI's AOC 4 Debris Ravine Final Action Memorandum (received by PG&E on June 24, 2009).	Other Justification/s: ☐ Permit ☐ Other / Explain:

Brief Summary of attached document:

This Implementation Report is submitted in conformance with DOI's AOC 4 Debris Ravine Final Action Memorandum dated May 28, 2009 (received by PG&E on June 24, 2009) and the approved Final Work Plan for the Time-Critical Removal Action at AOC 4 Debris Ravine, Pacific Gas and Electric Company Topock Compressor Station, Needles, California, (or TCRA Work Plan, dated December 18, 2009). The Implementation Report for the Time-Critical Removal Action (TCRA) documents the interim action TCRA activities performed from December 2009 through December 2010 in compliance with the TCRA Work Plan. The TCRA removed approximately 11,799 tons of waste from the AOC 4 Debris Ravine. The report also presents the results of laboratory confirmation sampling performed in accordance with the TCRA Work Plan. Key report elements include: (1) narrative chronology and documentation of construction activities and methods, waste management, sample collection, air monitoring, and health and safety; (2) results presentation, showing that the removal action achieved TCRA Work Plan target endpoints.

Written by: PG&E

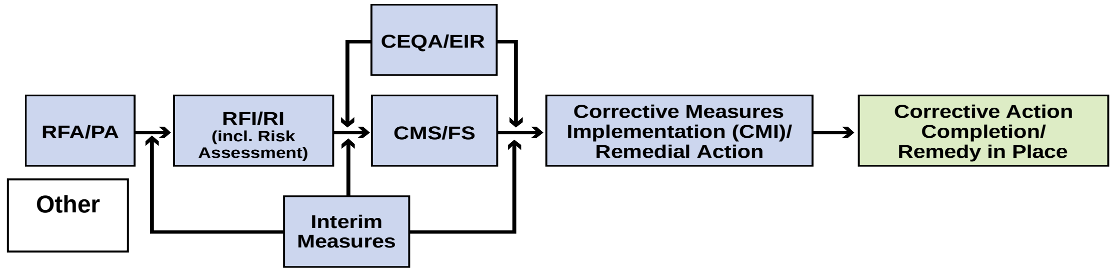
Recommendations:
Review and provide comments to DOI.

How is this information related to the Final Remedy or Regulatory Requirements:
This Implementation Report is required by DOI's AOC 4 Debris Ravine Final Action Memorandum dated May 28, 2009 and is submitted following the approved TCRA Work Plan dated December 18, 2009.

Other requirements of this information?
None

Related Reports and Documents:

Click any boxes in the Regulatory Road Map (below) to be linked to the Documents Library on the DTSC Topock Web Site (www.dtsc-topock.com).



Version 9

Legend
RFA/PA – RCRA Facility Assessment/Preliminary Assessment
RFI/RI – RCRA Facility Investigation/CERCLA Remedial Investigation (including Risk Assessment)
CMS/FS – RCRA Corrective Measure Study/CERCLA Feasibility Study
CEQA/EIR – California Environmental Quality Act/Environmental Impact Report

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March 15, 2011

Pamela Innis
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Subject: Implementation Report for the Time-Critical Removal Action at AOC 4, PG&E Topock Compressor Station, Needles, California

Dear Ms. Innis:

This letter transmits the Implementation Report for the Time-Critical Removal Action at AOC 4, PG&E Topock Compressor Station, Needles, California. This Report is submitted in conformance with the Department of the Interior's (DOI) AOC 4 Debris Ravine Final Action Memorandum, which was issued to PG&E on June 24, 2009, and with the approved Final Work Plan for the Time-Critical Removal Action at the AOC 4 Debris Ravine, dated December 18, 2009.

If you have any questions, please contact me at (805) 234-2257.

Sincerely,

Yvonne Meeks

Yvonne Meeks
Topock Project Manager

cc: Aaron Yue/DTSC

Implementation Report for the Time-Critical Removal Action at AOC 4, Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA

Prepared for

Pacific Gas & Electric Company

March 2011

Signature Page

This project was implemented by team of contractors. Professional stamps for specific portions of the report are included within the document, as appropriate.

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Acronyms and Abbreviations

ACM	asbestos-containing material
AOC	Area of Concern
ARAR	applicable or relevant and appropriate requirement
BLM	United States Bureau of Land Management
BMP	best management practices
Cal/OSHA	California Division of Occupational Safety and Health
CARB	California Air Resources Control Board
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
COPCs	constituents of potential concern
COPECs	constituents of potential ecological concern
CRZ	contamination reduction zone
DOI	United States Department of the Interior
DQO	data quality objective
DTSC	California Environmental Protection Agency, Department of Toxic Substances Control
ESA	Endangered Species Act
EZ	exclusion zone
f/cc	fibers per cubic centimeter
HAZWOPER	Hazardous Waste Operations and Emergency Response Standard
HDPE	high-density polyethylene
HSP	Health and Safety Plan
MDAQMD	Mojave Desert Air Quality Management District
MET	meteorological weather
mph	miles per hour
mg/m^3	milligrams per cubic meter
MSAA	Master Streambed Alteration Agreement
NCP	National Contingency Plan

NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PAH	polycyclic aromatic hydrocarbon
PBA	Programmatic Biological Assessment
PCB	polychlorinated biphenyls
PCM	phase-contrast microscopy
PCP	polychlorinated phenols
PEL	permissible exposure limit
PG&E	Pacific Gas and Electric Company
PPE	personal protective equipment
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
RFI/RI	RCRA Facility Investigation/Remedial Investigation
SPCC	Spill Prevention, Control, and Countermeasures Plan
SVOC	semivolatile organic compound
TCRA	Time-Critical Removal Action
TEC	target endpoint concentrations
TEM	transmission electron microscope
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
WMP	Waste Management Plan
XRF	X-ray fluorescence

1.0 Introduction

The history of previous investigations and Agency direction leading up to the Area of Concern 4 Debris Ravine (AOC) 4 Debris Ravine Time-Critical Removal Action (TCRA) are described in the approved *Final Work Plan for Time-Critical Removal Action at AOC 4 Debris Ravine, PG&E Topock Compressor Station, Needles, California* (Alisto et al., 2009), hereafter referred to as the Final Work Plan.

A June 2009 United States Department of the Interior (DOI) Action Memorandum *Time-Critical Removal Action (TCRA) at the Area of Concern (AOC) 4 Debris Ravine, at the Pacific Gas and Electric Topock Compressor Station* (DOI 2009), directed Pacific Gas and Electric Company (PG&E) to initiate activities necessary to implement and perform the proposed TCRA actions specified in Section V of the memorandum. This TCRA, was conducted in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and, as an interim remedial action, was intended to stabilize and mitigate the threat of release of contaminated material. The TCRA interim action is expected to be consistent with and contribute to any subsequent remedial action selected to respond to soils that are subject of the ongoing RFI/RI. The TCRA is not a substitute for any remedial activities that may be required under the Resource Conservation and Recovery Act (RCRA) nor has it been pre-determined to be the final remedy for AOC 4. Photograph E-1 shows AOC 4 prior to the start of remedial activities.

This Implementation Report for the TCRA at AOC 4 has been prepared to document the field work associated with the TCRA, document compliance with the project objective, and present the results of the field activities for the project. Work started on December 15 2009, with the start of a six-week duration baseline air monitoring data collection. Primary field activities associated with the TCRA continued through December 3, 2010. The field implementation of the TCRA was performed in accordance with the Final Work Plan. During implementation, field changes were identified and documented with a path forward agreed upon by DOI. These field changes or clarifications to the Final Work Plan are summarized in Appendix A, Table A-1. The methodology, chronology of implementation, project communications, and results and conclusions associated with the TCRA are presented in this Implementation Report.

1.1 Project Background and Objectives

The Topock Compressor Station is located in San Bernardino County, approximately 15 miles to the southeast of Needles, California, as shown in Figure 1-1. AOC 4 comprises a narrow, steep-sided arroyo that drains into Bat Cave Wash at the southwest corner of the compressor station. Operational history at AOC 4 is not well documented; however, over the years, fill material and debris have been deposited over the northern slope, with some debris accumulating in the bottom of the ravine.

Investigative and remedial activities are being performed under RCRA Corrective Action process, as well as CERCLA pursuant to agreements with the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) and DOI, respectively. Under the terms of these agreements, PG&E has been conducting the RCRA facility investigation/remedial investigation (RFI/RI) at the Topock Compressor Station. The purpose of the RFI/RI is to identify and evaluate the nature and extent of hazardous waste and constituent releases at the compressor station. The TCRA was performed as an interim remedial action measure directed by DOI to stabilize and mitigate the threat of release of contaminated material into the environment. The TCRA interim action is expected to be consistent with and contribute to any subsequent remedial action selected to respond to soils that are the subject of the ongoing RFI/RI. Confirmation results from the AOC 4 TCRA will be included in the ongoing Topock RFI/RI soils investigation.

1.2 Report Organization

The AOC 4 TCRA Implementation Report was prepared by an integrated team of PG&E contractors (Alisto, ARCADIS/Turnkey, CH2M HILL, and NES,).

The Implementation Report is organized as follows:

- **Section 1** presents the project background and the removal objectives.
- **Section 2** presents a summary of the interim remedial action planning, the chronology and methods of implementation, and pre-construction activities.
- **Section 3** presents the interim remedial action results with summaries of confirmation soil sample and air monitoring analytical results.
- **Section 4** presents the conclusions for the interim remedial action for the TCRA.
- **Section 5** provides a list of references used during report preparation.
- The appendices contain detailed information supporting the results and conclusions presented in the Implementation Report:
  - Appendix A – Field Change Requests and variances
  - Appendix B – Permits and Notifications
  - Appendix C – Waste Management Documentation
  - Appendix D – AOC 4 Outfall Gabion Documentation
  - Appendix E – Photographs
  - Appendix F – Interim Removal Action Documentation
  - Appendix G – Soil Data Quality Evaluation
  - Appendix H – Air Monitoring Data

2.0 Summary of Interim Remediation Activities

This section presents the pre-construction activities, methods, equipment, and procedures that were used to implement the AOC 4 TCRA. PG&E followed strict quality assurance and quality control measures throughout the project to monitor, document, adjust, and record changes to improve the removal process. Inspections and monitoring of the work plan requirements were carried out by PG&E and their subcontractors with daily monitoring and frequent and regular documentation. Key areas of quality assurance and quality control compliance monitoring included health and safety, run-on/runoff control, best management practices (BMPs), spill prevention, waste management, handling and transport of waste, air monitoring, sample collection, and permit compliance.

2.1 Planning and Coordination

This section presents a summary of stakeholder interaction and coordination tasks, and worker training. Consistent with other phases of work conducted at the Topock site, PG&E invited agency representatives and other stakeholders (including representatives of Native American Indian tribes involved with the Topock project) to the site for a project initiation meeting held prior to the start of intrusive removal activities on January 26, 2010.

Cultural resources values, sensitivity, and awareness training was also provided on January 26, 2010, with all site personnel in attendance. This training was also refreshed during the project. PG&E employees and the contractors involved with the TCRA were required to attend PG&E's threatened and endangered species education program, conducted on January 27, 2010, for the entire field crew, prior to initiation of activities. New employees received training. All field staff participated in PG&E field sensitivity and awareness training prior to working onsite. Refresher training was held on a monthly basis and as-needed for planned activities.

2.2 Pre-construction Activities

This section presents activities that were conducted prior to the start of the interim remedial action field activities.

2.2.1 Approvals and Authorizations

Table 2-1 presents a summary of all approvals and authorizations, required permits, and notifications in addition to field change requests and variances. Appendix B, Table B-1 presents the permits and notification required to implement the TCRA.

This TCRA was conducted under the authority of CERCLA Section 104 and was, therefore, exempt from obtaining any federal, state, or local permits or complying with other administrative requirements, pursuant to CERCLA Section 121(e). However, the National Contingency Plan (NCP) (40 CFR 300.415(j)) requires that removal actions shall, to the extent practicable considering the exigencies of the situation, attain applicable or relevant and appropriate federal and state environmental requirements (applicable or relevant and appropriate requirements [ARARs]). Therefore, the measures described below were performed to meet the NCP requirements, as described in detail in the Final Work Plan.

The TCRA activities were conducted in accordance with the Programmatic Biological Assessment (PBA) (CH2M HILL, 2007b) and were, therefore, in compliance with Endangered Species Act (ESA) requirements. The allowable disturbance from this activity occurred on steep slopes of AOC 4, with a small portion of the activity occurring in the ephemeral channel at the floor of the AOC 4 ravine. The TCRA remedial activities also fit under the Master Streambed Alteration Agreement (MSAA) (CDFG Notification No. 1600-2005-0140-R6, as amended in January 2007) as *Unspecified Investigative and Remediation Activities*. The TCRA was conducted in accordance with MSAA requirements as well, including pre-activity notifications.

Compliance with Section 106 of the National Historic Preservation Act involved consultation with local Native American tribes and with the State Historic Preservation Office. The area subject to TCRA remedial activities was included in an archaeological survey of the Area of Potential Effect (Applied Earthworks, 2007). Although there are two archeological sites located within several hundred meters of AOC 4, no archeological sites or historical sites were identified on or within the AOC 4 work area or the Topock Compressor Station. No archaeological or historical sites were discovered near the AOC 4 work area during the project.

All work areas were re-examined by an archaeologist before intrusive work proceeded. An archeologist monitored activities throughout the project. No archaeological findings were observed during the TCRA in the AOC 4 work area. The archeological site located upstream in Bat Cave Wash from AOC 4 was protected during the TCRA activities by placing temporary fencing across the wash to prevent personnel and equipment from travelling up the wash. Upon completion of the gabion installation (see Section 2.3.7, Subarea F), this temporary fence was removed, and no further activities were conducted in this area. The other archeological site was located east of the work area and the BLM and PG&E archeologists determined that no specific protective measures were required.

PG&E notified the Tribes monthly and daily of the AOC 4 work schedule to allow for Native American cultural resources monitoring. Several Tribes monitored activities throughout the project from a view point across the Bat Cave Wash. The Tribal monitors were regularly invited to participate in frequent up-close visits to the site to see the work from various vantage points surrounding the support area. The tribal monitors presented their observations to PG&E representatives daily and met routinely with PG&E representatives to exchange information and discuss planned activities as part of the TCRA.

Air quality monitoring was conducted in accordance with the Final Work Plan Appendix B, Air Monitoring Plan. Baseline monitoring was conducted at the property line prior the start of excavation to establish background concentrations. During the excavation activities, air samples were collected from the exclusion zone (EZ) and property line boundaries. Contractors with personnel inside the EZ also performed personal air monitoring of their employees to assess the adequacy of the level of protection being utilized.

Meteorological stations were employed for the primary purpose of documenting wind speed and direction data, which was used to establish EZ and perimeter monitoring locations.

Although Mojave Desert Air Quality Management District (MDAQMD) Rule 102 for visible emissions, nuisance dust, and fugitive dust did not apply, the project was conducted compliant with MDAQMD Rule 102 requirements. While a demolition/renovation permit was not required, a courtesy notification was made to MDAQMD on January 19, 2010, and the asbestos-containing material (ACM) present at AOC 4 was removed consistent with Class II removal work in substantive compliance with MDAQMD asbestos notification requirements.

Water quality protection was accomplished with BMPs implemented for Run-on and Runoff Controls in accordance with the Final Work Plan.

Compliance with the requirements of regulations under the categories of hazardous waste management, hazardous materials management, and oil spill prevention and response was achieved during the TCRA removal and disposal of approximately 11,800 tons of waste. No waste removed from the site exceeded toxicity characteristic levels and no RCRA hazardous waste was generated during removal activities. All waste was stored in accordance with the Final Work Plan, Appendix D, Waste Management Plan (WMP). Waste storage areas used for the TCRA are further described in Section 2.2.2.

2.2.2 Site Access and Work Zones

Prior to the start of remedial activities, the AOC 4 area was segregated into three primary work zones (Support Zone, Contamination Reduction Zone [CRZ], and EZ) such that work was conducted in accordance with California Division of Occupational Safety and Health (Cal/OSHA) regulations set forth in Title 8, California Code of Regulations [CCR] Section 5192. This section identifies the locations and extent of the primary EZ, contaminant reduction zones, and support zone, as shown in Figure 2-1.

These work zones were adjusted as work activities progressed across the site but were maintained at all times during removal work. A separate CRZ and EZ were established for work performed at confluence of the Debris Ravine and Bat Cave Wash. The certifications required for personnel to enter or conduct work within each zone were defined in the Final Work Plan, Appendix A, Health and Safety Plan (HSP). The CRZs were used as locations to conduct personnel heat stress monitoring. Access to the EZs was limited to those essential for the safe completion of project goals. Engineering and administrative controls were evaluated daily, and the required personal protective equipment (PPE) was adjusted as necessary. PG&E and its contractors provided Support Zone administrative offices and support facilities to accommodate the entire field team within the compressor station boundary. The administrative offices also served as the command center and were temporarily connected to electricity and had wireless internet connectivity. This command center allowed for direction of site operations and a controlled environment for computer equipment and also provided a point of contact location. Sanitary facilities were established and maintained at the command center.

In addition to these work zones, an equipment staging area and a waste management area were established to support the interim remedial action. The area immediately east of the AOC 4 removal area was the most commonly used staging area (Figure 2-1). These work areas were maintained in accordance with the Final Work Plan.

Appendix C presents a waste management summary for the TCRA and Table C-1 a waste summary by volume presentation. The containerized waste storage areas were near the entrance to the Topock Compressor Station and along the paved upper access road inside the Topock Compressor Station (Figure 2-1). Empty waste containers were temporarily staged offsite at the Park Moabi Road and Interstate 40 parking area (Figure 2-2). Waste containment vessels were all closed prior to leaving the EZ and underwent exterior decontamination and inspection through the CRZ prior to being moved to the waste storage areas. All trucks hauling waste containers to the approved disposal facility were inspected prior to coming onto the site. Inspections were performed by trained personnel and documented for compliance with the Final Work Plan.

2.2.3 Start of Work and Aboveground and Underground Feature Survey

Baseline air monitoring data collection began December 15, 2009. This non-intrusive start of AOC 4 TCRA activities was followed by the utility clearance process. A survey of aboveground and underground utilities was conducted within all work areas before site preparation and remedial activities began. This survey began with site-specific reconnaissance combining visual inspection of work areas and review of available site utility plans and as-built documentation. Underground Service Alert or Dig Alert, was notified on January 5, 2010, and this notification was renewed monthly during the intrusive parts of the remedial action. Finally, a geophysical survey of all work areas planned for intrusive work used various remote sensing tools to identify underground features. These steps were performed in accordance with the Final Work Plan. The primary features that required special attention were the pipelines to the compressor station natural gas vent stacks located in the northwest portion of Subarea C near the primary CRZ and at the suspected drum area located in the northeast portion of Subarea C (later determined not to contain drums as discussed in Section 2.3.7).

2.2.4 Site Preparation

This section summarizes the site preparation activities, including the water supply and installation of BMPs. A water source was established for use with engineering controls associated with dust control equipment decontamination and other activities. A temporary storage and distribution system allowed the use of Topock Compressor Station water supply for AOC 4 TCRA activities without interfering with compressor station operations. A clean, temporary, overhead fresh water storage tank was erected within the primary staging area shown in Figure 2-1. A temporary network of aboveground distribution lines conveyed water to the appropriate work areas. A water truck was also used to convey water to the work areas and along vehicle traffic routes as necessary to suppress dust.

Appropriate runoff and run-on controls and other BMPs were implemented to meet the substantive requirements of a Stormwater Pollution Prevention Plan. These are described in detail in Appendix F of the Final Work Plan, BMPs for Run-on and Runoff Controls. These BMPs included installation of berms along the access road to the water tanks and along the bench area of Subarea C. Straw wattles were placed in areas that equipment was staged within the EZ and along a drainage area and catch basin within Subarea C. Additionally, check dams (Photographs E-3 and 4) were installed upstream of the Subarea E work area and immediately downstream, with two 6-inch high-density polyethylene (HDPE) pipes (Photograph E-2) used to convey stormwater from the upper check dam through the Subarea E ravine to the downstream side of the lower check dam. Lastly, a lined gabion was installed at the mouth of the AOC 4 ravine where it entered into Bat Cave Wash. Appendix D presents the documentation for the remedial activities in Subarea F and the gabion. Table D-2 presents the gabion location soil sampling results, and Figure D-3 shows the gabion location and soil sampling locations.

One of the important gas pipelines within the compressor station boundary near the support trailers required protection before the transport of any loaded waste containers over the pipeline location. An additional thickness of asphalt cover was installed over the pipeline location to protect the pipeline from the heavy trucks and to allow for safe passage by vehicles, equipment, and trucks.

2.3 Removal Action

This section presents the approach to the remedial activities, including a discussion of equipment types and removal techniques. Table 2-2 presents the as-performed schedule for the TCRA remedial activities.

2.3.1 Removal Methods and Equipment

Three primary methods were employed to remove fill and debris material from AOC 4: manual collection, vacuum excavation, and mechanical excavation, as described in the Final Work Plan.

Several techniques and types of equipment were employed at different locations of the site to maintain the safety of site workers and to minimize the overall footprint of the remedial action to the extent practicable. As work progressed, site supervisors evaluated the effectiveness and safety of each removal technique, making modifications as required. Before modifications to the work approach, BMPs were evaluated and adjusted as necessary. Figure 2-3 presents the AOC 4 site layout and the removal method used for each grid cell in the six subareas.

During all removal and excavation activities, a certified asbestos consultant was onsite to monitor the activities and to document compliance with applicable regulations. The ACM was segregated and placed into a separate designated waste container. During the excavation and sampling activities, a registered geologist was onsite to monitor the materials being excavated and to perform soil classification to verify compliance with the Final Work Plan.

Field personnel worked on foot to manually collect various debris in areas where the use of mechanical equipment would cause unnecessary disturbance of native materials or was not safe for the placement of excavating equipment. Typically, materials were gathered either by hand or with hand tools and were carried to the loading area for placement in the appropriate waste containers (Photographs E-41). Field personnel working on slopes were secured using OSHA-compliant methods and equipment, in accordance with the approved HSP.

Vacuum excavation allowed the field team to delicately remove fine debris in areas where mechanical excavation would cause unnecessary disturbance of native/bedrock materials or in areas that were not accessible to mechanical equipment. The vacuum excavation at AOC 4 utilized a truck-mounted vacuum unit staged in the EZ with the vacuum piping/hose deployed to the excavation areas by workers on foot. Hand or mechanical tools were used to scarify or loosen the target materials during vacuum removal. Photographs E-59 and E-66 show the vacuum excavation process. Vacuum-excavated materials were drawn through the hose and containerized in a waste container coupled to the vacuum unit. A dust filtration system in the vacuum truck filtered the vacuum unit exhaust to prevent fugitive dust.

Mechanical excavation was the primary removal method. Three types of mechanical excavation were performed during AOC 4 TCRA work, using mini-, standard-, and long-reach excavators. The excavation equipment employed is presented in the following subsections.

Standard-reach and long-reach excavators were employed to perform most of the mechanical removal from work areas above the AOC 4 slopes. One long-stick excavator, equipped with an extended boom providing a reach up to 55 feet, was employed for the extended reach areas. The long-reach excavator chassis was a Caterpillar 320 (42,000 pounds [19,000 kilograms]). To prevent tipping during maximum reach, this excavator was limited to an approximately 1-cubic-yard-capacity bucket. Additional smaller excavators were also employed in localized areas where the swing radius and reach of the Caterpillar 320 were too large. A smaller Caterpillar 312 (26,000 pounds/12,000 kilograms) was used in the bottom of the ravine (Subarea E) to move material along the ravine bottom until it could be accessed with the long reach excavator. Photographs E-19 and E-40 show the mechanical excavation process utilizing the long-reach excavator.

During excavation work, the excavators rotated their buckets over the area of in-place material to prevent spreading contaminated material back over the area that had been excavated when possible. When this was not possible because of the site logistics, plastic was placed beneath the swing radius to protect the clean soils beneath. Any soil spilled onto the plastic was broom-swept into a pile and manually placed into the appropriate waste container. The plastic was then inspected for any residual before being removed and placed in the appropriate waste containers.

Due to the tight confines of the loading area, the long-reach excavator was not always able to directly load into waste container bins. Consequently, the Caterpillar 312 or wheeled loaders were operated periodically in the loading area to place temporarily staged materials into waiting waste containers. Due to the limited space in the working area, filled bins were immediately moved from the loading area through the CRZ, decontaminated, inspected, and transported to the waste staging areas pending offsite transport and disposal.

The loading area also acted as the location for routine equipment maintenance. Equipment was fueled, greased, and prepared in these areas. Most of the equipment and materials were staged on this level surface with plastic beneath the equipment, spill containers in place beneath the fueling area and spill kits in the immediate area. All maintenance was supervised by an inspector to assure that all BMPs and required steps were implemented according to the Final Work Plan.

2.3.2 Health and Safety

During remedial activities at AOC 4, a Site-Specific HSP was prepared to provide a basic framework for executing the TCRA including the safe handling and removal of the chemically impacted soil in AOC 4. This HSP met the requirements of the Cal/OSHA Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) regulations found at Title 8 of the California Code of Regulations Section 5192 (8 CCR 5192). Major contractors were required to prepare a HSP in conformance with this project HSP, and their personnel were required to acknowledge understanding and conformance with their individual HSP.

The project compiled 42,000 man-hours without any recordable injuries or major safety related incidents. This was accomplished through site training, use of job/task hazard analyses, and interactive daily safety meetings. Daily safety inspections were performed by compliance personnel as well as through the use of the buddy system where personnel were encouraged to actively participate in the safety of the team. Additionally, the onsite personnel played an active role in the morning discussions on safety and recommendations on how safety can be improved. This exemplary safety record was achieved by the dedication of the entire onsite team throughout the removal action.

The safety of observers and visitors was a primary concern on this project. Safe observation locations were identified, shade and water were provided, and efforts were made to accommodate the visitors and observers when they needed to relocate for a better vantage point.

The HSP described hazards assessment for the following major potential hazards:

- Airborne contaminants
- Chemical dermal contact
- Heat Stress
- Fall Restraint (employed on steep slopes in the AOC 4 work area)

2.3.2.1 Airborne contaminants

Dust control measures, including water spray application were implemented to minimize dust and associated airborne contaminant emissions from the work areas including the EZ, CRZ, and support zone (including transportation routes). Wind indicators were stationed at multiple locations to identify wind direction. Workers were advised to stay upwind of the excavation activities whenever possible.

Direct-reading instrumentation was used to measure total dust concentrations in the EZ as well at the site perimeter and at locations where offsite observers were located.

Action levels for total dust can be based on the concentrations of the specific contaminants found in the soil. If one takes the Cal/OSHA permissible exposure level (PEL) and divides that by the highest concentration level in soil, one can calculate the level of total dust required to exceed the PEL. These total dust action levels were calculated for hexavalent chromium, polychlorinated biphenyls (PCBs), lead, Pentachlorophenol, dioxins, and polycyclic aromatic hydrocarbon (PAHs).

The Cal/OSHA PEL for total nuisance dust is 10 mg/m^3. Dust is generally visible at 2 to 3 mg/m^3. Therefore, when good dust control measures are in place and there is little or no visible dust generated on the job site, the likelihood of total dust levels exceeding 2 to 3 mg/m^3 is minimal. This was the case for the TCRA.

Respiratory protection levels and equipment were selected based on the air monitoring results as well as the potential presence of airborne asbestos fibers and the worst-case airborne contaminant levels possible at total dust levels of 2 to 3 mg/m^3. In many cases, this resulted in the frequent use of Level C respiratory protection even though the air monitoring results ultimately indicating that there was minimal potential for exposure at or above the PELs.

Air monitoring results indicated that no workers, support personnel, or observers were exposed to levels in excess of the PEL with the level of protection worn. The air monitoring approach and results are described in greater detail in Section 2.4.

2.3.2.2 Chemical Dermal Contact

Protection from dermal contact with waste was provided by the use of appropriate PPE including disposable coveralls, boots and gloves. Personal and equipment decontamination was performed to minimize the amount of potentially contaminated material that workers would come into contact with when they exited the EZ and to avoid transport of site contamination into areas outside of the EZ and CRZ. No incidents involving contact with contaminated materials were reported.

2.3.2.3 Heat Stress

Heat-related illnesses were a major concern on the AOC 4 project as temperatures in excess of 120 degrees Fahrenheit were recorded. Environmental monitoring was performed to identify appropriate baseline work/rest cycles and breathable disposable coveralls were worn to reduce the impact of the severe temperatures. Additionally, personal monitoring was conducted to evaluate individual physiological responses to the heat stress. Respiratory protection levels were downgraded when possible based on air monitoring results to further reduce the risk of heat-related illness. Heat Illness Prevention training was conducted with routine refresher training for all onsite personnel. As a result of the precautionary measures, no recordable cases of heat-related illnesses were reported on this project.

2.3.2.4 Fall Restraint

Very steep slopes are present at AOC 4. These steep slopes required fall restraint measures be incorporated. Specific training in fall restraint and rappelling techniques was conducted by a trained instructor prior to the start of the rope work. Concrete anchors were positioned at the top of the areas where fall restraint was required for workers to tie off. Ropes were inspected prior to each event, rope pads were placed under any areas of possible abrasions, and observers were stationed at the concrete anchors to make sure lines did not become tangled or frayed on rough edged of the concrete anchor. Workers wore rappelling harnesses and were securely tied off. No fall related incidents were reported.

2.3.3 Dust Control

Engineering controls for the abatement of airborne particles during remedial activities were strictly applied. The primary types of engineering controls that were employed to control dust were vacuum methods, wetting, and the application of soil stabilizers. To prevent the escape of effluent dust from the vacuum collection system, a multistage canister filter or bag house portable dust collection system, with filter specifications appropriate to the removal contractors approved HSP, was used to filter the effluent from the vacuum truck.

Ground surface wetting was the primary dust suppression method during removal activities. The spray was applied by a water truck (when it could be applied from outside the EZ), from hand-held hose lines, and from sprinklers connected in manifold to the water supply system (Photograph E-38). Water was applied with the sprinklers as a pre-wetting step in addition to direct spray from hoses during excavation activities. Hand-held hose lines with fire nozzles were used to emit a controllable spray or mist for dust suppression during mechanical removal activities.

A water truck was used in the loading areas and on haul roads at the perimeter of the site and where trucks entered and exited the EZ. Application of dust-suppression water was closely monitored to minimize ponding or runoff, and BMPs were used to contain any resulting runoff. Surface application of commercial soil stabilizer was used to provide dust and erosion controls on specific areas not being actively excavated during the removal action, and for post-construction dust control after remedial activities were completed. The product selected for the project, SoilTac, is an environmentally low-impact, organic-based stabilization material.

2.3.4 Soil Sample Collection, Screening, and Confirmation Analysis

The extent of remedial activities was guided by a phased approach to screening and confirmation laboratory analysis of soil samples collected during the TCRA. This approach, which included consideration of the data quality objectives (DQOs) developed for this TCRA, was detailed in Section 2.6 of the TCRA Work Plan (Alisto et al., 2009).

A summary of the general approach to sample collection, screening, and confirmation analysis of material encountered during removal is summarized as follows.

1. **Visual screening** – The areas were initially examined for evidence of debris or fill material. Removal of materials in a given area continued until visual examination indicated that fill and debris have been removed. If bedrock was encountered, the removal in that area was deemed complete.

2. **Soil sample collection** – Once an area was clear of debris or fill material, a soil sample(s) was collected for screening and subsequent confirmation laboratory analysis, as appropriate. During removal activities, grid nodes of approximately 25-foot spacing (plan view) were established across the removal area using a handheld GPS unit. The resulting grid, which was used to guide the collection of surface soil samples for screening and confirmation analysis once the grid was clear of debris or fill material (Photograph E-12), is illustrated on Figure 2-1. Adequate sample volume was collected such that analysis of all screening and confirmation samples was conducted from the same original aliquot. In accordance with the Work Plan, discrete soil samples were collected from the approximate center of mass of unconsolidated material remaining in each grid cell. If a grid cell contained both alluvium and bedrock, samples were generally collected from the center of the alluvium. In four Subarea A grid cells, where the removal work extended into the steep access road embankment, a second sample was collected. Sample collection and management was conducted in accordance with the procedures detailed in the Work Plan and QAPP (CH2M HILL 2008a, 2008b).

3. **Screening-level analysis of soil samples** – A portion of the sample was segregated for field chemical screening of metals using a portable X-ray fluorescence (XRF) analyzer per the procedures detailed in the Work Plan. Corrected XRF results were compared to target endpoint concentrations on a point-by-point basis (i.e., site averaging was not performed). If screening-level results indicated metal concentrations exceeded target endpoint concentrations, then removal continued.

   When screening-level results indicated metal concentrations were below TECs, a portion of the sample was submitted for screening-level laboratory analysis using the procedures detailed in the Work Plan for the following organic compounds: PAHs, pentachlorophenol, PCBs, and dioxins/furans. As determined through point-by-point comparison, if screening-level laboratory results indicated organic compound concentrations exceeded target endpoint concentrations, then removal continued.

4. **Confirmation-level analysis of soil samples** – When screening-level results indicated target analyte concentrations were below target endpoints, a portion of the sample was submitted

for confirmation laboratory analysis using the procedures detailed in the Work Plan for all organic and inorganic compounds for which target endpoint concentrations have been established. Following validation, the confirmation-level laboratory results were evaluated against the target endpoint concentrations on a point-by-point basis, except for the Dioxins equivalent TCDD TEQ (i.e., area-wide average concentrations were not calculated as the 95^{th} percent upper confidence limit of the mean to evaluate these results, with the exception of the Dioxins TCDD TEQ data). If the confirmation results exceeded the target endpoint concentrations removal continued.

5. Removal was considered complete when target end points for all constituents of potential concern (COPCs) and constituents of potential ecological concern (COPECs) were achieved or bedrock was encountered.

When additional removal activities were required for a given area based on the process above, the screening process was started again with the collection of a new soil sample from the freshly exposed surface (i.e., Step 2 above). Following this process, additional removal was conducted at approximately 33 grid cells following the analysis of screening and confirmation samples during the course of the TCRA.

2.3.5 Decontamination

Decontamination was conducted on all equipment or personnel that entered and/or exited the EZ and included equipment and personnel.

Temporary equipment decontamination facilities were constructed within the CRZ to properly decontaminate equipment by mechanical means. Equipment that entered the EZ was decontaminated upon exiting the CRZ. An inspection record of equipment entering and exiting the EZ was maintained onsite. The majority of all decontamination of trucks and equipment was performed using dry decontamination procedures. However, wet decontamination was performed on the inside of the collection tank and the filter housing of the vacuum rig.

Personnel decontamination facilities were also located in the CRZ. The personnel decontamination trailer provided the facilities for personnel and visitors to don and doff their PPE as they enter and exit the EZ. The decontamination trailer had an entrance from the support zone where personnel removed and stored their clean street clothing and personal items and donned clean PPE. An entrance to and from the EZ was located at the opposite end of the decontamination trailer, where personnel removed their PPE as they exited the remediation area. The personnel decontamination trailer was equipped with potable water, an eyewash facility, sanitary facilities, boot wash, and boot rack, and appropriate storage facilities for spent PPE disposal.

Decontamination rinse water generated during the decontamination of equipment and personnel was contained and managed for disposal in accordance with the Work Plan and applicable regulations. Sediments collected from the decontamination facilities were collected on plastic sheeting, combined with the appropriate waste stream, and transferred to the waste management area.

2.3.6 Waste Classification, Management, and Disposal

Waste management was conducted in accordance with the WMP, which was included in the Work Plan. The WMP provided procedures for the proper collection, storage, characterization, transportation, and disposal of waste generated during remediation activities at the Site, within the framework of appropriate federal, state, and local requirements and consistent with United States Environmental Protection Agency (USEPA) guidance. TCRA activities that resulted in the generation of waste included excavation of soil and debris, decontamination of personnel, equipment, and vehicles. Five waste profiles were established for the TCRA with three disposal facilities: two profiles for non-RCRA waste with asbestos with Clean Harbors, Buttonwillow, California, a profile for PCB wastes and a profile for non-RCRA waste without asbestos with Waste Management, Kettleman City, California, and a profile for non-RCRA waste without friable asbestos, with US Ecology, Inc., Beatty, Nevada. A total of 11,799 tons of waste was removed, managed, and disposed under the five waste profiles. The details of waste profiles, disposal facilities, and disposal by subarea are provided in Appendix C.

Miscellaneous waste not affected with potentially contaminated material or water (such as trash, paper bags, and cardboard boxes) was disposed of as non-regulated soil waste at a Class III waste management unit.

2.3.7 Chronology of the Removal Action

This subsection provides a summary of the chronology of and approach to removal activities associated with the TCRA. Equipment types and removal techniques used during the TCRA are presented in Section 2.3.1 and described in greater detail below. Appendices E and F provide a pictorial chronology of the TCRA activities and detailed documentation of the TCRA areas following removal, respectively. Appendix E is a photographic log organized to show the sequence of work and representative activities throughout the TCRA activities at all Subareas. Appendix F provides a summary narrative text, and in Table F-1 a detailed cell by cell summary of the decision basis for each cell of the sampling grid (as shown in Figures 2-1 and 3-1), indicating whether the basis for completion was excavation to bedrock, or confirmation sampling results. Appendix F further includes photo documentation of each grid sampling cell and confirmation sample location.

During December 2009, pre-mobilization planning and permit evaluations were conducted in advance of TCRA field activities. Starting December 15, 2009, the AOC 4 TCRA began with baseline air monitoring data collection. In January 2010, the construction team began mobilization of crew, equipment, and construction materials; and set-up of the office trailer and sanitary facility; traffic control equipment; and empty waste containers.

On Monday, January 11, 2010, the construction team started site preparation activities. The equipment and waste staging areas were cleared and prepared, and the office trailer utilities and communications were set up. The water supply connections necessary for dust control were completed, and the work areas were demarcated and work zones set up.

After the Project Initiation meeting with all stakeholders present on January 26, 2010, field activities began. BMP installation was conducted from January 27 through February 2, 2010. Prior to beginning removal activities at the site, run-on and runoff controls were installed in accordance with the BMPs detailed in the Work Plan.

Two temporary check dams were constructed within the primary drainage channel of AOC 4 using a combination of sandbags and plastic sheeting to control flow. The first check dam was constructed at the upstream side of the drainage near the southeast border of planned removal areas as shown in Figure 2-1. This check dam diverted water from precipitation events flowing toward work areas of the site. A temporary pipeline consisting of two 6-inch HDPE pipes was constructed from the collection point of the upstream check dam. The HDPE pipes were used to convey collected waters from upstream sources by gravity flow to the downstream end of the work area. This flexible pipeline followed the bottom of the ravine and was constructed such that the pipes could be temporarily moved when the work was being conducted in the bottom of the ravine. The second check dam was constructed at the northwest (downstream) end of the drainage at the limit of practical downstream access from Subarea E. The flexible pipeline used in the upstream check dam discharged below the downstream check dam. This downstream check dam served to reduce the potential for soil migrating offsite.

Finally, a third structure, a lined gabion at the junction of Subarea F with Bat Cave Wash, was installed between January 27 and February 12, 2010. Soil removal and soil sample collection from this area was accomplished prior to gabion installation.

Following BMP and gabion installation, the removal activities began. Work progressed generally from upgradient to downgradient along the AOC 4 ravine (from east to west) and from up-slope to down-slope perpendicular to the ravine (from north, beginning closer to the TCS facility, to south, where the ravine floor was the southern boundary of AOC 4 removal). The sequence of work, beginning at Subarea A, reflects this overall scheme. To the extent possible, removed material was directly loaded into covered bins. As each bin was filled, it was covered and then decontaminated, inspected, labeled, and moved to the waste staging area. A clean, lined, empty bin was then positioned within reach of the excavator. There were a few areas where this methodology was not practical, but temporary feed piles were immediately loaded into bins as soon as the long-reach excavator could be repositioned or the standard-reach excavator could be positioned in the loading area.

The following detailed approach discussion is presented for Subareas A through F.

2.3.7.1 Subarea A (Eastern Slope and Burned Area)

Subarea A was accessible at the upslope boundary (north side) via an unimproved track on a bench of fill and debris. The area was on a steep slope partially comprised of bedrock outcrop with drainage gullies filled with waste, which limited heavy equipment access onto the site. Material removed consisted of fill and debris (debris, rock, and ACM) directly overlying bedrock and filled drainage gullies and, in limited areas, disturbed and/or native alluvium. The majority of material removed within Subarea A was removed down to the thin veneer of native alluvium overlying the bedrock surface. Where disturbed alluvium and native alluvium remained after material removal, screening and confirmation samples were collected from the excavation surface.

Remediation methods at this location included hand removal, mechanical removal, and vacuum excavation. ACM materials were collected by hand and carried up to segregated roll-off bins designated for these materials. After removal of the ACM, the soils were primarily excavated using mechanical equipment from February 15 through March 12, 2010. One sample (AOC4-A01minus, see Figure 3-1 and Table 3-1) was collected 10 feet outside of grid cell A01, to document conditions at the head of a gully that was used as a landmark for the upgradient or eastward extent of the AOC4 area during planning.

In localized areas where the thin veneer of native or disturbed alluvium overlying the bedrock surface did not pass screening or confirmation analyses, vacuum removal equipment was used to remove all material from the bedrock surface, with no screening or confirmation sampling of the final cleaned bedrock surface. Vacuum removal was performed along the lower slope of Subarea A from July 12 through August 13, 2010. Photograph E-19 shows the excavation activities on the upper slopes of Subarea A.

2.3.7.2 Subarea B (Upper Portion of Primary Slope)

Subarea B had a moderate slope and was readily accessible from the road and designated loading area. Material removed consisted of fill and debris similar to that described for Subarea A, overlying disturbed alluvium and/or native alluvium and/or bedrock. Where disturbed alluvium and/or native alluvium remained after material removal, screening and confirmation samples were collected from the excavation surface.

After removal of the ACM, the soils were primarily excavated using mechanical equipment from March 15 through May 14, 2010. Generally, the long-reach excavator started from the highest portion of Subarea B at the south end and worked downslope, moving toward the north until the fill above Subarea C was pulled back to a safe slope. The excavator loaded material directly into bins staged in the loading area on the access road behind (away from) the slope.

In localized areas where the thin veneer of native or disturbed alluvium overlying the bedrock surface did not pass screening or confirmation analyses, vacuum removal equipment was used to remove all material from the bedrock surface. Vacuum removal was performed from July 26 through August 4, 2010. Photograph E-27 shows the excavation activities on the upper slopes of Subarea B.

2.3.7.3 Subarea C (Plateau of Primary Slope)

Subarea C had a moderate slope and was readily accessible from the bench road and designated loading area. Material targeted for removal consisted of fill and debris overlying disturbed alluvium and/or native alluvium and/or bedrock. Where disturbed alluvium and/or native alluvium remained after material removal, screening and confirmation samples were collected from the excavation surface.

The initial approach involved excavation using long-reach mechanical equipment. Generally, the excavator started from the highest portion of Subarea C at the southeast end and worked as far as it could reach downslope, moving toward the northwest (down drainage). The excavator loaded material directly into bins staged at the loading area behind (away from) the slope. Where this methodology was not practical, temporary feed piles were immediately loaded into bins as soon as the long-reach excavator could be repositioned or the standard-reach excavator could be positioned in the loading area.

The long-reach excavator continued to excavate Subarea C and also extended downslope into Subarea D. Subareas C and D were excavated concurrently downstream across the slope of the debris ravine. In most areas, the long-reach excavator was able to cut the bench down slightly then access the remaining waste on the slope from the bench. Mechanical removal was performed from May 17 through November 18, 2010. Several days (November 9, 11, 12, 15, 17, and 18, 2010) of limited mechanical removal were performed at specific grid locations after perimeter and exclusion zone air monitoring demobilization began on October 28 and 29. This work proceeded based on (1) successful dust control demonstrated by past data for the same area and methods, and (2) more liberal water use for dust control during those last days of limited mechanical removal activity.

In localized areas where the thin veneer of native or disturbed alluvium overlying the bedrock surface did not pass screening or confirmation analyses, vacuum removal equipment was used from October 8 through October 15, 2010, to remove all material from the bedrock surface.

During the early stages of the project, information from a PG&E employee indicated that there may be buried drums along the northern portion of the Subarea C plateau. A geophysical survey was completed on June 17, 2010, (Photographs E-47, 48, and 49) with anomalies identified and marked on the ground and a detailed geophysical map generated. Exploratory potholes were excavated on July 28, 2010, to determine the depth and extent of any debris prior to excavation (Photograph E-69). On September 27, 2010, (Photograph E-89) excavation and removal of the debris commenced, and it was determined that no buried drums existed in this area and that the largest piece of debris found was a metal pipe approximately 4 inches in diameter and 3 feet in length.

2.3.7.4 Subarea D (Lower Portion of Primary Slope)

Subarea D had a steep slope but was readily accessible with mechanical equipment from the Subarea C bench road and designated loading area. Material targeted for removal consisted of fill and debris overlying disturbed alluvium and/or native alluvium and/or bedrock. Where disturbed alluvium and/or native alluvium remained after material removal, screening, and confirmation samples were collected from the excavation surface.

Prior to excavating the slope of Subarea D, exploratory trenches were excavated for waste characterization and to determine the vertical extent of the debris. The exploratory trenching activities are shown in photographs E-31 through E-33.

Excavation proceeded from the upper slope area, starting from the southeast quadrant and advance along the axis of the drainage channel toward the northwest quadrant. Debris and fill in this area were accessed by equipment working from the upper slope (Subarea C). A long-reach excavator, having a reach of 55 feet, was used for excavation of Subarea D. Subarea D was excavated concurrently with Subarea C downstream across the slope. To prevent tipping during maximum reach, the excavator was limited to using an approximately 1-cubic-yard bucket. From the small bench cut in Subarea C, the excavator was able to reach to the toe of Subarea D and into Subarea E. Mechanical excavation of Subarea D was performed from May 17 through September 27, 2010. One grid location, N-9 (located at the southwest corner of Subarea D), could not safely be accessed for confirmation sampling after excavation was completed. That cell was excavated to a steep, stable slope in native alluvium using the long-reach excavator from a bench that was also removed. Worker safety over-rode further efforts to sample N-9 after the cell could no longer be sampled by using the excavator bucket. The confirmation results from sampling grid cells O-8, N-8, M-8, M-9 and M-10, adjacent to N-9, all met target endpoint criteria, those locations are shown in Figure 3-1, with results in Table 3-1.

2.3.7.5 Subarea E (Ravine Bottom)

The ravine bottom is a very narrow area with limited access from only a few locations. Subarea E consisted primarily of fill and debris and/or disturbed alluvium and/or native alluvium deposited over bedrock. Where disturbed alluvium and/or native alluvium remained after material removal, screening, and confirmation samples were collected from the excavation surface.

Work progressed in this subarea using a similar concept to Subarea D. A small, rubber-tracked miniexcavator accessed the very narrow, upstream end of the ravine bottom via a gradually sloped cut in the waste slope. Once in the bottom of the ravine the machine advanced the waste downstream collecting material and moving it along with the excavator.

Once in a location where the long-reach excavator could reach the advancing waste feed pile from a wider portion of the ravine, the smaller excavator was removed from the ravine, and the long-reach excavator moved the waste to the bottom of Subarea D at the downstream end of the ravine. The materials were then transferred up to the loading area bins. To minimize the potential for re-contaminating ground surfaces that had already been remediated, the excavators generally collected and stockpiled materials in advance of the upslope work that was progressing from southeast to northwest so the units lifting the ravine bottom materials could continue the pattern of rotating over areas that had not yet been excavated. Where this practice was not practical or when working near areas outside the debris ravine, heavy (6-mil or greater) polyethylene sheeting was staked over clean surfaces to prevent contamination of clean surfaces. Mechanical removal from Subarea E took place from July 28 through September 27, 2010.

After the long-reach excavator reached the furthest extent practical on the northwest end of the ravine, it returned to the slope and tracked back up to the top. When weather reports indicated significant potential rainfall and at the end of each work shift, equipment was removed upslope, out of the lower part of the channel. Photograph E-56 shows the excavation activities in Subarea E.

In localized areas where the thin veneer of native or disturbed alluvium overlying the bedrock surface did not pass screening or confirmation analyses, vacuum removal equipment was used from October 8 through October 15, 2010, to remove all remaining material from the bedrock surface.

At the end of removal activities, the sand bags from the upper check dam were moved to the lower check dam, and the lower check dam was left in place to minimize the potential for soil transport toward the gabion.

2.3.7.6 Subarea F (Ravine Bottom, Unsafe Access)

Subarea F is a narrow drainage at the western end of the site and includes the portion of the ravine west of primary fill and debris areas and the area where the ravine meets Bat Cave Wash. The ravine bottom is a very narrow area with limited access. The northern bank is an overhanging wall whose face is near vertical and has been undercut at the base by stream erosion. This area was not safe for personnel access, as described in the Final Work Plan. Where safe and practical (primarily at the ends of Subarea), limited removal and sampling of fill and debris was performed using the excavator to reach into unsafe areas.

A rock gabion structure (see Appendix D for details) was installed in the ravine outfall to Bat Cave Wash downstream of Subarea F at the start of AOC 4 work activities. The gabion was located downstream from the two temporary check dams. The upstream controls (temporary check dams) limited runoff velocities into Subarea F, and the gabion limits soil transport out of Subarea F. The gabion was constructed with cobble-filled wire baskets with the face and sediment trap lined with filter fabric. The gabion acts as a sediment filter and will retain any debris that is washed out of the drainage during seasonal rains. Final placement of the gabion and appropriate longer-term maintenance procedures were developed and mutually agreed upon by the HNWR Manager and PG&E during site meetings on the weeks of January 27 and February 8, 2010. During placement of the gabion, soil samples for confirmation analyses were collected from 12 locations, 3 of which represent material left in place, and 9 of which were collected to characterize removed material. Results for these soil samples are shown in Appendix D, Table D-1, which also lists the Target Endpoint Concentrations for HNWR property. Materials removed prior to the sampling and during local site leveling for the gabion installation were placed into roll-off bins and managed similarly to other excavated materials. Photograph E-5 shows these Subarea F excavation activities. Additionally, two empty crushed drums were removed from the area immediately above the gabion using a backhoe. The drums were placed into the appropriate waste containers for disposal. Runoff flows that result in temporary ponding above the gabion could deposit sand, silt, and debris above the gabion. During removal activities, post-rainfall inspection and cleanout of debris or fines that accumulate above the downstream gabion served as added mitigation measures.

2.3.7.7 Demobilization

Following completion of removal activities, demobilization activities were performed in October, November, and December 2010. Validated confirmation data from the TCRA was completely in hand on December 16, 2010, and that was considered the end of removal activities.

2.3.8 Post-construction Activities

Because additional site characterization may be required following completion of this TCRA for AOC 4, the post-construction slope stabilization efforts conducted during this project were not intended to be the final disposition of the site. Following the completion of remedial activities and receipt of passing confirmation analysis results, demobilization activities were initiated. Demobilization activities included reconfiguration of BMPs, teardown of temporary fencing, installation of protective fencing around open excavations, rake out of observer access paths, and application of soil stabilizer (SoilTac polymer, Photograph E-98) to all disturbed grid cells. Additionally, clean soil was placed back into the root ball of the mature mesquite tree in Subarea E to protect the roots and improve its chance of survival. After these activities were complete, all equipment, personnel, and temporary facilities were demobilized from the site.

Additional post-construction activities will continue following reporting, and include inspection and maintenance of SoilTac soil stabilization, and the gabion at the downstream end of the Debris Ravine. Soil stabilizer will be reapplied as necessary, based on inspections. Slopes in the former debris ravine are generally stable and resistant to erosion. Inspection will also include examining steep slopes in native alluvium (such as western Subarea C) for indications of slope movement or instability. Run-on controls were left in place above the upper slope. Also above the upper slope, concrete barriers were installed to keep Topock Compressor Station personnel activities at a safe distance from steeper areas of the slope.

The check dam below Subarea E and the gabion below the slot canyon Subarea F will be maintained under a periodic inspection program, with special attention to pre- and post-rainfall inspections. Soil trapped above the dam or the gabion may be removed if accumulated after rainfall events.

2.4 Air Monitoring

Air monitoring activities performed during AOC 4 TCRA included daily weather monitoring, selection of air sampling locations, sample analysis, and evaluation of analytical results of samples collected during pre-removal work (baseline), site perimeter, EZ perimeter, and personal air monitoring.

During removal activities at AOC 4, air monitoring and sampling was conducted to assess air quality within the work area (EZ), adjacent to the EZ, and at the perimeter of the compressor facility. The objectives of air monitoring program were to: (1) ensure worker safety within the EZ and verify that engineering control measures are effective in preventing airborne contaminants from migrating outside the EZ, and (2) document that remedial activities do not result in the migration of soil contaminants by air beyond the facility boundaries.

2.4.1 Weather Monitoring

Weather conditions played an important planning role in determining potential migration pathways within the AOC 4 area. Wind speed and direction, temperature, humidity, and rain were monitored at four meteorological weather (MET) stations during the removal activities. Weather data were logged at 15-minute intervals and were used to: (1) inform the field and construction personnel when wind speed exceeded 25 miles per hour (mph), (2) determine upwind and downwind directions, (3) provide real-time temperature data, and (4) estimate the likelihood of precipitation or rain.

During AOC 4 removal activities, wind conditions over 25 mph were communicated to the team to adjust work procedures and prevent dust migration due to soil removal activities. When conditions were rainy or wet, dust levels were naturally suppressed and air sampling was postponed or halted to prevent damage to the air sampling pumps.

2.4.2 Sampling Locations

Analytical and direct-read air sampling locations were identified daily, based on the wind direction from the MET stations and regional weather predictions. The four analytical sampling locations (north, south, east, and west) were positioned so that one was always located in the upwind direction with the remaining three positioned downwind of the remedial activity. The locations and frequency of sampling areas depended on the activities being conducted and the predominant wind direction. Figure 2-2 present the approximate locations of the air monitoring or sampling stations.

2.4.3 Monitoring Methodology and Procedures

Both direct-read real-time monitoring and air sampling were conducted throughout the project and remedial activity. Direct real-time monitoring of dust levels was accomplished using a Casella CEL Microdust Pro dust monitor. Dust level data was used as an indicator of overall air quality since potential contaminants are bound to soil particulates (dust). The dust monitor has a lower detection limit of 0.001 mg/m^3, the results of which were used to alert the field and construction personnel when dust levels exceeded the Cal/OSHA PEL for nuisance dust of 10 mg/m^3, or the California Air Resources Control Board (CARB) standard of 0.05 mg/m^3 for a 24-hour period.

A total of 633 air samples collected were analyzed according to the Air Monitoring Plan (Appendix B of the Final Work Plan) for eight analytes to confirm that the concentrations of potential contaminants in the direct-read monitoring of dust levels were protective of human health and the environment. The constituents analyzed in the air samples included particulates, chromium (both hexavalent and total), lead, PAHs, PCBs, polychlorinated phenols (PCP), dioxins, and asbestos. Air samples were collected on chemical specific media in air sampling pumps and analyzed by State-certified laboratories: EMSL Analytical laboratory of Westmount, New Jersey, and ALS Laboratory of Ontario, Canada, using recommended methods of OSHA, NIOSH, and 40 CFR 763 as specified in the Final Work Plan.

2.4.4 Baseline Monitoring

Prior to the start of the remedial activities, baseline direct-read monitoring and air sampling were conducted between December 15, 2009, and January 19, 2010, to assess background conditions and evaluate the field instruments detection limits. Air samples were collected from stations on the level northern portion of Subarea C and submitted to the designated laboratory with a field blank for each chemical suite for analysis of preconstruction concentrations of contaminants of concern.

Direct-read dust monitoring was conducted at various locations of the AOC 4 project area during baseline monitoring. As described in the Final Work Plan (Alisto et al., 2009), the highest concentrations of each specific contaminant detected in the pre-workplan soil samples collected at AOC 4 were used in calculations to estimate the worst-case total dust exposure. The calculations based on hexavalent chromium soil sample results established an action level for total dust at 3.2 mg/m^3 for direct-read monitoring. Action levels for other constituents detected in the air samples by laboratory analysis were based on Cal-OSHA PELs as listed in the Final Work Plan.

The average direct-read air monitoring data and results of all laboratory analysis of air samples were all below the action levels established for the AOC 4 removal action.

2.4.5 Site Perimeter Monitoring

During waste remedial activities from January to October 2010, perimeter air monitoring was conducted at the property line to assess the potential for dust migration during the remedial efforts. Direct-read dust monitoring was conducted eight to ten times daily, at a minimum of four different perimeter locations such as the Tribal Observation Area, North Perimeter Fence, Cooling Tower A, Water Storage Tanks, Southern MET Station, and AOC 4 Field Trailer. Direct-read monitoring data were recorded in the field log book. The averaged total dust levels were all below the MDAQMD allowable concentration of fugitive respirable dust of 0.05 mg/m^3 for a 24-hour period.

2.4.6 Exclusion Zone Perimeter Monitoring

During waste removal, direct-read total dust levels at the EZ perimeter were measured daily at the four air sampling stations and recorded in the field log book. All direct dust-level readings were below the PEL action limit of 3.2 mg/m^3.

In addition to direct-read dust monitoring, air samples were collected daily at the EZ perimeter to verify that no airborne contaminants or constituents of concern were migrating beyond the

EZ. Three samples downwind and one sample upwind of the excavation area were collected for laboratory analysis of each contaminant based on data from the meteorological station. Action levels for the perimeter samples were based on PELs. Concentrations of contaminants or constituents of concern detected in the air sample by laboratory analysis were all below the action levels except for dust or particulates, which were detected in 11 samples during the remedial action period at concentrations ranging from 0.04 to 0.223 mg/m^3 during an 8-hour work day, which were above the 0.05 mg/m^3 24-hour period action level for dust. It is likely that these shift exceedances were not daily exceedances.

In addition to perimeter monitoring stations, during any activities in the EZ that disturbed waste or soil, direct-read, logging dust monitors (DataRams) were deployed in the work zone and at the perimeter of the work zone to immediately assess the effectiveness of PPE and dust control measures. This supplemental DataRam data indicated that dust control activities were consistently successful throughout the project, with total dust concentrations consistently less than 0.1 mg/m^3.

2.4.7 Personal Monitoring

During removal of waste where ACM was potentially present, the onsite asbestos consultants performed daily personal air monitoring of a representative number of crew members that were involved in the operation. This representative set typically included an equipment operator, a general laborer, and a debris-picking laborer. The samples were submitted to an accredited asbestos laboratory daily on a rush turnaround for phase-contrast microscopy (PCM) analysis for fibers. If the number of total fibers detected by PCM exceeded the PEL for asbestos (0.5 f/cc [fibers per cubic centimeter]), the sample would then be analyzed by transmission electron microscope (TEM) to determine if the fibers were asbestos fibers.

The asbestos monitoring data indicated that debris removal and water application activities were conducted in a manner that kept airborne asbestos fibers to a minimum and consistently below the PEL. Of the samples analyzed by PCM that exceeded the PEL for total fibers, none of those samples exceeded the PEL for asbestos when analyzed by TEM (in other words, few or none of the fibers detected in the PCM analyses were actually identified as asbestos fibers by follow-up TEM analysis).

Personal air monitoring continued through the last removal activities. However, Site Perimeter and Exclusion Zone air monitoring stopped on October 29, 2010, after major removal activities were completed. No additional removal was performed until November 9, 2010. Limited removal activity was performed in Subarea C over 6 days on November 9, 11, 12, 15, 17 and 18, 2010. This work proceeded with personal air monitoring based on (1) successful dust control demonstrated by past data for the same area and methods, and (2) more liberal water use for dust control during these last days of limited mechanical removal activity.

3.0 Summary of Interim Remediation Results

This section presents analysis of soil and air data collected during the field event.

3.1 Soil Sample Analytical Results Summary

This section summarizes the analytical results for soil confirmation samples collected after completion of the remedial activities in each subarea and soil samples collected during the installation of the gabion at the mouth of Bat Cave Wash. The AOC 4 subarea grid, confirmation soil sample locations, and gabion sample locations are shown in Figure 3-1. Analytical results for the confirmation soil samples are presented in Table 3-1. Gabion sample analytical results are presented in Table 3-2. All confirmation and gabion soil sample results were validated in accordance with the Quality Assurance Project Plan (QAPP). The Soil Data Quality Evaluation is presented in Appendix G.

A data gaps evaluation will be performed for AOC 4 using the confirmation and gabion soil data. The AOC 4 data gaps evaluation, including results and conclusions, will be presented in the Topock Compressor Station Soil Program in the Soil RFI/RI Soil Work Plan due April 2011.

3.1.1 Confirmation Soil Sample Analytical Results

A total of 116 confirmation surface soil samples were collected from the six subareas within AOC 4 (65 from native alluvium and 51 from disturbed alluvium). Soil samples were submitted to an offsite laboratory for Title 22 metals, mercury, hexavalent chromium, SVOCs, PCBs, and dioxins/furans analyses. The confirmation soil sample analytical results were compared to the target endpoint concentrations (TEC), using the TEC for disturbed alluvium and 10 times the TEC for native alluvium (Table 3-1).

As shown in Table 3-1, the confirmation soil sample analytical results for all analytes and all sampled cells were below the applicable TECs—with the exception of three cells (N06, Q04, and Q05) where the Dioxins TEQ exceeded the TEC of 50 ng/kg for disturbed alluvium.

These three cells had TCDD TEQ results of 53 to 64 ng/kg, slightly above the TEC for disturbed alluvium. Pursuant to Section 2.6.3 of the Work Plan, area-wide average concentrations were then calculated as the 95_{th} percent upper confidence limit (UCL) of the mean, using ProUCL software. The TCDD TEQ UCL results were:

- 43 ng/kg for confirmation samples from both the disturbed and native alluvium—below the 1x TEC for disturbed alluvium of 50 ng/kg.
- 25.3 ng/kg for confirmation samples from just the disturbed alluvium—below the 1x TEC for disturbed alluvium of 50 ng/kg.
- 63.8 ng/kg for confirmation samples from just the native alluvium—below the 10x TEC for native alluvium of 500 ng/kg.

Based on these results, the TCRA objective was met at all confirmation sample locations and subareas. Only one cell on the AOC 4 sampling grid, N-9 in westernmost Subarea C, did not have a confirmation sample collected due to safe access constraints as described in Section 2.3.7.

3.1.2 Gabion Soil Sample Analytical Results

During the installation of the gabion in Subarea F at the mouth of the AOC 4 Debris Ravine and its junction with Bat Cave Wash, 12 soil samples were collected at depths of up to 5 feet below ground surface. Samples were collected at a range of depths from the soil surface, to the mod-point of excavation depth at 2 to 3 feet, to the maximum excavation depth for gabion installation of 4 to 5 feet. Soil samples were submitted to an offsite laboratory for Title 22 metals, mercury, hexavalent chromium, SVOCs, PCBs, and dioxins/furans analyses. Analytical results for the gabion soil samples are presented in Table D-1, Appendix D. The gabion samples are considered opportunistic samples and were not collected as part of the TCRA activities, because they were not used to guide excavation activities. These results were not included in the assessment of the TCRA objectives but will be used in the RFI/RI soil investigation program. As shown on Figure D-3, three samples represent material left in place: GB-10, GB-11 and GB-12. All other samples shown on the Figure represent material that was removed.

3.2 Air Sample Analytical Results Summary

The location of the air monitoring and sampling locations is shown in Figure 3-2. Samples collected from these locations indicated that concentrations of contaminants or constituents of concern detected in the air sample by laboratory analysis were all below the action levels except for dust or particulates, which were detected in 11 samples during the remedial action period at concentrations ranging from 0.04 to 0.223 mg/m^3 during an 8-hour work day. Table H-1 summarizes the analytical results for the air samples with the official laboratory reports included in Appendix H.

4.0 Conclusion

The TCRA objectives were met by this removal action. Removal was conducted in all safely accessible areas of AOC 4. The excavation, screening, and confirmation approach followed the Final Work Plan, including the quality criteria established in the DQOs and the QAPP addendum. Based on this confirmation data set and installation of erosion control measures, the potential threat of release of contaminated material from AOC 4 has been stabilized and mitigated. AOC 4 confirmation soil data will be carried forward the RFI process to determine the need for and scope of future actions.

Additional post-construction activities will continue following this reporting, and include inspection and maintenance of SoilTac soil stabilization, and the gabion at the downstream end of the Debris Ravine. Soil stabilizer will be reapplied as necessary, based on inspections. Slopes in the former debris ravine are generally stable and resistant to erosion. Inspection will also include examining steep slopes in native alluvium (such as western Subarea C) for indications of slope movement or instability. Run-on controls were left in place above the upper slope. Also above the upper slope, concrete barriers were installed to keep Topock Compressor Station personnel activities at a safe distance from steeper areas of the slope.

The check dam below Subarea E and the gabion below the slot canyon Subarea F will be maintained under a periodic inspection program, with special attention to pre- and post-rainfall inspections. Soil that accumulates above the dam or the gabion after rainfall events may be removed.

5.0 References

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Tables

TABLE 2-1

Approvals & Authorizations

Implementation Report for the Time-Critical Removal Action at AOC 4

Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA

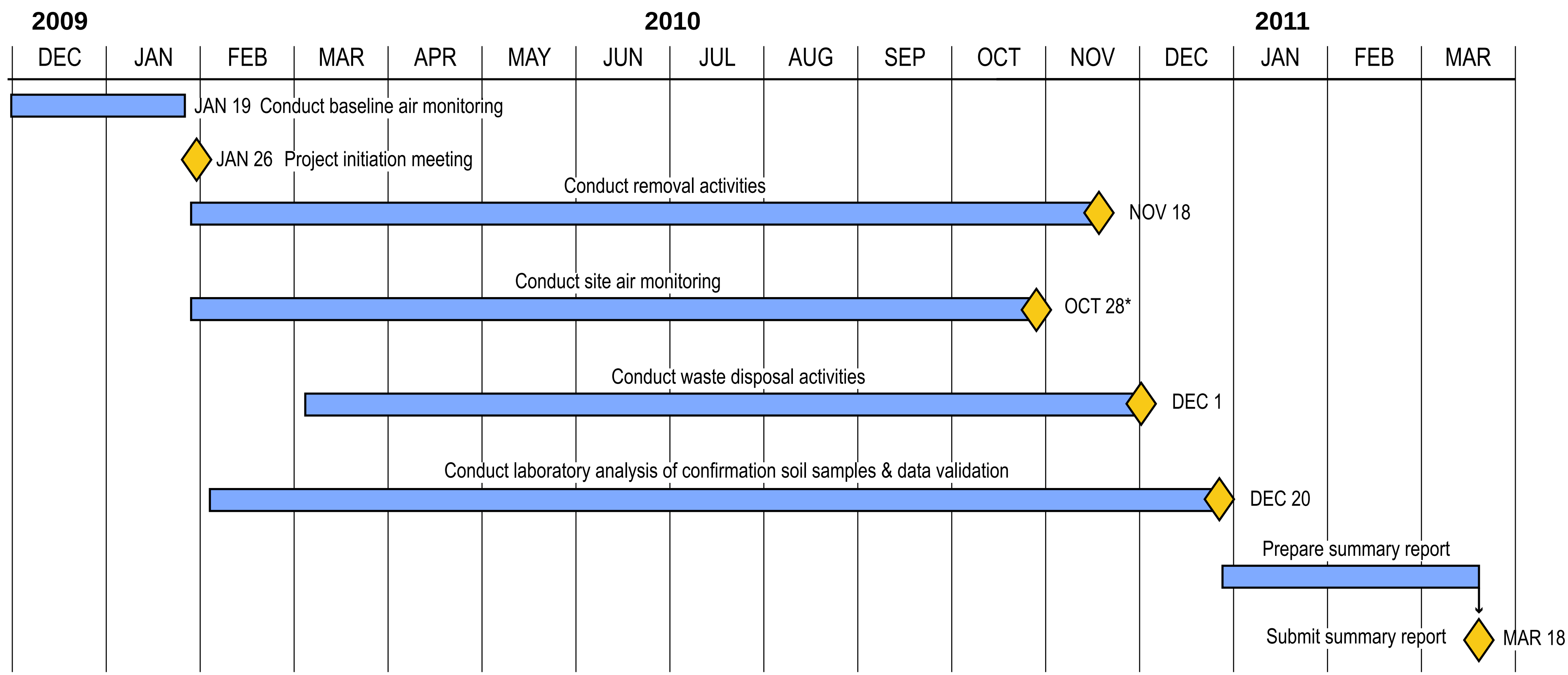
Privileged and Confidential

Permit/ Notifications	Specific Regulation/Applicable Categories	Required Compliance	Approvals/Authorizations/Conclusions	Applicable Agency
CERCLA Section 121(e)	Obtaining any federal, state, or local permits or complying with other administrative requirements pursuant to CERCLA Section 121(e).	Compliance not required. TCRA was conducted under the authority of CERCLA Section 104.		
National Contingency Plan (40 CRF 300.415(j))	Requires that removal actions shall to the extent practicable considering the exigencies of the situation, attain applicable or relevant and appropriate federal and state environmental requirements.	Biological Evaluation & Cultural Resource Evaluation		
Programmatic Biological Assessment & SAA Conditions	Endangered Species Act (Category 4 Soil Sampling & Category 6 Restoration Activities)	Designation of Field Contact Representative, construction awareness training, construction completion report	No additional consultation with USFWS was necessary. Special Conditions for Authorized Activities letter from Refuge Manager dated, January 7, 2010.	USFWS/CDFG/HNWR
	Mojave Desert Tortoise	Protocol survey prior to start of work	Have not been found in 5 years of protocol surveys. Gabion runoff measure serves as barrier to the work area. No additional consultation with USFWS was necessary.	
	Southwest Willow Flycatcher & Yuma Clapper Rail		Upland from sensitive riparian habitat; not applicable to nesting bird restrictions in PBA. No additional consultation with USFWS was necessary.	
	Habitat Loss/ Mesquite Tree	Habitat Loss	Tree protected during removal activities, debris was removed from the root ball and replaced with clean native soil. No additional consultation with USFWS was necessary.	
National Historic Preservation Act (Section 106)	Expedited consultation w/ Native American Tribes and State Historic Preservation Office	Archeologist re-examined site prior to start of work and monitored activities throughout the project. Native American tribes were notified of work schedule and also monitored throughout the project.	No historical or archeological sires identified on or within the AOC4 work area or Topock Compressor Station.	
Air Quality	Fugitive Dust Standards Rule 102 (Visible emissions, nuisance dust, and fugitive dust)	Compliant with MDAQMD requirements		MDAQMD
	Asbestos	No required compliance. Courtesy notice sent to MDAQMD on January 15, 2010, and ACM removal consistent with Class II Removal work.		
	Portable Emissions Standards	No portable equipment 50HP or greater was used		CARB

TABLE 2-1
Approvals & Authorizations
Implementation Report for the Time-Critical Removal Action at AOC 4
Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA
Privileged and Confidential

Permit/ Notifications	Specific Regulation/Applicable Categories	Required Compliance	Approvals/Authorizations/Conclusions	Applicable Agency
Water Quality	Stormwater Management	Prohibiting authorized and unauthorized non-stormwater discharges causing or contributing to an exceedance of any applicable water quality standard		RWQCB
		Identifying potential pollutant sources, and implementing BMP's to prevent discharge of pollutants to stormwater and address erosion and sedimentation factors		
		Inspecting and maintaining BMPs		
		Sampling stormwater discharges to water bodies impaired due to sedimentation of discharges that could contain pollutants that are not visibly detectable		
		Performing site inspections before, during, and after storm events to evaluate BMP effectiveness		
	Surface Water Quality Standards	Master Streambed Alteration Agreement submitted to CDFG January 18, 2010 (Notification No. 1600-2005-0140-R6).		
Hazardous Waste/Materials Management			No waste removed from the site exceeded toxicity characteristic levels and no RCRA hazardous waste was generated during removal activities.	
Oil Spill Prevention	General containment requirements	Spill Prevention, Control, and Countermeasures Plan	Update of the compressor station *Spill Prevention, Control and Countermeasures Plan* was not necessary. No petroleum products were stored on PG&E property or staging areas.	
	Specific requirements for sized secondary containment for bulk storage tanks and containers			
	Emergency response procedures			
USA Notification	Utility Locating	Prior to site work and/or digging USA survey completed.		USA
Transportation, Hazardous Materials Transport & Waste Disposal	Transportation Permits and Manifests	Profiles established with landfills		Caltrans, DOT, and DTSC

CARB: California Air Resources Board
CDFG: California Department of Fish and Game
DOT: Department of Transportation
DTSC: Department of Toxic Substances Control
HNWR: Havasu National Wildlife Refuge
MDAQMD: Mojave Desert Air Quality Management District
RWQCB: Regional Water Quality Control Board
SWPP: Storm Water Pollution Prevention Plan
USA: Underground Service Alert
USFWS: United States Fish and Wildlife Service



* Personal air monitoring continued throughout all TCRA activities

Based on air monitoring data between January and October 2010, air monitoring was terminated on October 28, 2010. Additional excavation was performed up to November 18 and real time air monitoring was conducted using datarams to assure dust levels were below action levels.

TABLE 2-2
As-Performed Schedule
Implementation Report for the Time Critical Removal Action at AOC4
PG&E Topock Compressor Station
Needles, California

CH2MHILL.

Table 3-1

Soil Sample Results Compared to Target Endpoints Concentrations for Native and Disturbed Alluvium

PG&E Property

Implementation Report for the Time Critical Removal Action at AOC4

PG&E Topock Compressor Station, Needles, California

Location	Date	Sample Type	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Pentachloro phenol	TEQ [a]	B(a)P Equivalent [b]	Total PCBs [c]
			(mg/kg)																		(µg/kg)	(ng/kg)	(µg/kg)	(µg/kg)
Disturbed Alluvium																								
Target Endpoint Concentrations Disturbed Alluvium[2]:			**380**	**11**	**6,300**	**NA**	**810**	**1,400**	**37**	**300**	**38,000**	**800**	**180**	**4,800**	**16,000**	**4,800**	**NA**	**NA**	**5,200**	**100,000**	**9,000**	**50**	**130**	**740**
AOC4-D06_D07	08/10/10	N	ND (2.00)	ND (1.00)	190	ND (1.00)	ND (1.00)	32.0	ND (0.40)	8.50	13.0	6.20	ND (0.098)	ND (1.00)	24.0	ND (1.00)	ND (1.00)	ND (2.00)	36.0	40.0	ND (330)	4.9	9.4	ND
AOC4-E06_E07	08/10/10	N	ND (2.00)	ND (1.00)	190	ND (1.00)	ND (1.00)	45.0	ND (0.41)	11.0	18.0	6.10	ND (0.10)	ND (1.00)	31.0	ND (1.00)	ND (1.00)	ND (2.00)	42.0	40.0	ND (340)	2.2	ND (4.5)	ND
AOC4-I06_I07	08/13/10	N	ND (2.10)	ND (1.10)	360	ND (1.10)	ND (1.10)	41.0	ND (0.43)	10.0	34.0	5.50	ND (0.11)	ND (1.10)	31.0	ND (1.10)	ND (1.10)	ND (2.10)	55.0	52.0	ND (360)	6.0	4.7	140
AOC4-J02	05/10/10	N	ND (2.20)	1.20	230	ND (1.10)	ND (1.10)	25.0	ND (0.44)	7.20	15.0	5.70	ND (0.11)	ND (1.10)	17.0	ND (1.10)	ND (1.10)	ND (2.20)	34.0	34.0	ND (360)	5.3	ND (4.8)	96.0
AOC4-J06_J07	08/13/10	N	ND (2.10)	ND (1.10)	390	ND (1.10)	ND (1.10)	59.0	0.90	13.0	37.0	5.70	ND (0.11)	ND (1.10)	40.0	ND (1.10)	ND (1.10)	ND (2.10)	59.0	58.0	ND (350)	10	4.7	130
AOC4-K03	05/17/10	N	ND (2.10)	ND (1.10)	210	ND (1.10)	ND (1.10)	41.0	ND (0.42)	9.70	17.0	7.00	ND (0.10)	ND (1.10)	27.0	ND (1.10)	ND (1.10)	ND (2.10)	43.0	41.0	ND (350)	5.4	10.0	ND
AOC4-L01	05/14/10	N	ND (2.10)	ND (1.10)	230	ND (1.10)	ND (1.10)	54.0	ND (0.43)	14.0	24.0	4.20	ND (0.10)	ND (1.10)	37.0	ND (1.10)	ND (1.10)	ND (2.10)	63.0	42.0	ND (350)	3.2	ND (4.6)	ND
AOC4-L02	05/14/10	N	ND (2.10)	ND (1.10)	340	ND (1.10)	ND (1.10)	53.0	ND (0.42)	13.0	25.0	4.40	ND (0.11)	ND (1.10)	37.0	ND (1.10)	ND (1.10)	ND (2.10)	61.0	44.0	ND (350)	3.3	ND (4.6)	ND
AOC4-L03	05/13/10	N	ND (2.10)	ND (1.10)	160	ND (1.10)	ND (1.10)	53.0	ND (0.43)	12.0	28.0	4.50	ND (0.10)	ND (1.10)	36.0	ND (1.10)	ND (1.10)	ND (2.10)	60.0	43.0	ND (350)	2.8	ND (4.6)	51.0
AOC4-L04	05/18/10	N	ND (2.20)	ND (1.10)	210	ND (1.10)	ND (1.10)	46.0	ND (0.43)	12.0	18.0	5.20	ND (0.11)	ND (1.10)	33.0	ND (1.10)	ND (1.10)	ND (2.20)	49.0	41.0	ND (370) J	2.2	ND (4.9)	ND
AOC4-L07_L08	09/20/10	N	ND (2.10)	ND (1.10)	160	ND (1.10)	ND (1.10)	61.0	ND (0.42)	13.0	30.0	5.20	ND (0.11)	ND (1.10)	43.0	ND (1.10)	ND (1.10)	ND (2.10)	59.0	51.0	ND (350)	40	ND (4.6)	ND
AOC4-M01	09/30/10	N	ND (2.20)	ND (1.10)	180	ND (1.10)	ND (1.10)	51.0	ND (0.43)	12.0	23.0	4.60	ND (0.11)	ND (1.10)	37.0	ND (1.10)	ND (1.10)	ND (2.20)	53.0	43.0	ND (360)	0.67	ND (4.7)	ND
AOC4-M02	09/30/10	N	ND (2.10)	ND (1.00)	230	ND (1.00)	ND (1.00)	47.0	ND (0.42)	11.0	22.0	4.10	ND (0.10)	ND (1.00)	32.0	ND (1.00)	ND (1.00)	ND (2.10)	51.0	38.0	ND (350)	1.9	4.5	ND
AOC4-M03	10/04/10	N	ND (2.10)	ND (1.10)	650	ND (1.10)	ND (1.10)	51.0	ND (0.43)	12.0	24.0	3.20	ND (0.10)	ND (1.10)	38.0	ND (1.10)	ND (1.10)	ND (2.10)	54.0	39.0	ND (350)	0.55	ND (4.6)	ND
AOC4-M04	10/05/10	N	ND (2.10) J	ND (1.10)	240 J	ND (1.10) J	ND (1.10) J	30.0	ND (0.42)	7.90 J	11.0	3.60 J	ND (0.10)	ND (1.10) J	25.0	ND (1.10) J	ND (1.10)	ND (2.10) J	38.0	33.0	ND (350)	1.8	ND (4.6)	36.0
AOC4-M05	09/20/10	N	ND (2.10)	ND (1.00)	140	ND (1.00)	ND (1.00)	34.0	ND (0.41)	8.90	14.0	4.60	ND (0.10)	ND (1.00)	27.0	ND (1.00)	ND (1.00)	ND (2.10)	42.0	34.0	ND (340)	1.2	ND (4.5)	ND
AOC4-M06	07/08/10	N	ND (2.00)	ND (1.00)	170	ND (1.00)	ND (1.00)	31.0	ND (0.41)	8.30	10.0	5.10	ND (0.10)	ND (1.00)	23.0	ND (1.00)	ND (1.00)	ND (2.00)	38.0	34.0	ND (340)	44	ND (4.5)	ND
AOC4-M07	09/22/10	N	ND (2.10)	ND (1.00)	160	ND (1.00)	ND (1.00)	45.0	ND (0.41)	11.0	21.0	5.00	ND (0.10)	ND (1.00)	34.0	ND (1.00)	ND (1.00)	ND (2.10)	48.0	43.0	ND (340)	4.1	ND (4.5)	ND
AOC4-M07_M08	09/22/10	N	ND (2.10)	ND (1.00)	120	ND (1.00)	ND (1.00)	48.0	1.60	11.0	26.0	5.80	ND (0.10)	ND (1.00)	36.0	ND (1.00)	ND (1.00)	ND (2.10)	52.0	49.0	ND (340)	45	4.8	45.0
AOC4-M08_M09	09/23/10	N	ND (2.00)	ND (1.00)	140	ND (1.00)	ND (1.00)	39.0	0.75	9.00	24.0	7.30	ND (0.10)	ND (1.00)	26.0	ND (1.00)	ND (1.00)	ND (2.00)	42.0	49.0	ND (340)	39	5.4	60.0
AOC4-M10	10/01/10	N	ND (2.00)	ND (1.00)	160	ND (1.00)	ND (1.00)	69.0	1.80	11.0	200	6.20	ND (0.10)	ND (1.00)	32.0	ND (1.00)	ND (1.00)	ND (2.00)	44.0	50.0	ND (340)	44	12.0	180
AOC4-N01	09/30/10	N	ND (2.00)	ND (1.00)	130	ND (1.00)	ND (1.00)	22.0	ND (0.40)	5.20	9.50	5.40	ND (0.10)	ND (1.00)	15.0	ND (1.00)	ND (1.00)	ND (2.00)	26.0	32.0	ND (330)	13	14.0	200
AOC4-N02	09/30/10	N	ND (2.10)	ND (1.00)	200	ND (1.00)	ND (1.00)	31.0	ND (0.41)	8.50	13.0	3.30	ND (0.10)	ND (1.00)	24.0	ND (1.00)	ND (1.00)	ND (2.10)	39.0	30.0	ND (340)	0.42	ND (4.5)	ND
AOC4-N03	10/04/10	N	ND (2.10)	ND (1.10)	170	ND (1.10)	ND (1.10)	23.0	ND (0.43)	6.40	11.0	5.00	ND (0.11)	ND (1.10)	17.0	ND (1.10)	ND (1.10)	ND (2.10)	28.0	30.0	ND (350)	4.2	ND (4.7)	38.0
AOC4-N04	10/05/10	N	ND (2.10)	ND (1.10)	150	ND (1.10)	ND (1.10)	36.0	ND (0.42)	9.00	15.0	3.90	ND (0.11)	ND (1.10)	27.0	ND (1.10)	ND (1.10)	ND (2.10)	42.0	32.0	ND (350)	4.9	4.9	ND
AOC4-N05	10/05/10	N	ND (2.10)	ND (1.00)	240	ND (1.00)	ND (1.00)	34.0	ND (0.41)	8.90	14.0	4.10	ND (0.10)	ND (1.00)	27.0	ND (1.00)	ND (1.00)	ND (2.10)	41.0	32.0	ND (340)	3.5	ND (4.5)	50.0
AOC4-N05_N06	07/08/10	N	ND (2.00)	ND (1.00)	170	ND (1.00)	ND (1.00)	38.0	ND (0.40)	8.60	12.0	4.90	ND (0.10)	ND (1.00)	27.0	ND (1.00)	ND (1.00)	ND (2.00)	41.0	33.0	ND (340)	34	ND (4.5)	ND
AOC4-N06	09/23/10	N	ND (2.10)	ND (1.10)	190	ND (1.10)	ND (1.10)	33.0	ND (0.42)	8.80	13.0	5.30	ND (0.11)	ND (1.10)	27.0	ND (1.10)	ND (1.10)	ND (2.10)	40.0	34.0	ND (350)	64	4.6	75.0
AOC4-N07	09/23/10	N	ND (2.10)	ND (1.00)	140	ND (1.00)	ND (1.00)	31.0	ND (0.42)	8.10	9.80	5.20	ND (0.10)	ND (1.00)	25.0	ND (1.00)	ND (1.00)	ND (2.10)	36.0	33.0	ND (350)	5.6	ND (4.5)	ND
AOC4-N08	09/23/10	N	ND (2.10)	ND (1.10)	120	ND (1.10)	ND (1.10)	26.0	0.50	7.40	9.50	5.40	ND (0.11)	ND (1.10)	23.0	ND (1.10)	ND (1.10)	ND (2.10)	35.0	33.0	ND (350)	0.71	ND (4.6)	ND
AOC4-O02	10/04/10	N	ND (2.10)	ND (1.00)	150	ND (1.00)	ND (1.00)	20.0	ND (0.42)	5.60	8.70	4.40	ND (0.10)	ND (1.00)	15.0	ND (1.00)	ND (1.00)	ND (2.10)	28.0	43.0	ND (340)	2.0	4.5	ND
AOC4-O03	10/26/10	N	ND (2.00)	ND (1.00)	220	ND (1.00)	ND (1.00)	33.0	ND (0.41)	9.20	9.00	7.00	ND (0.10)	ND (1.00)	28.0	ND (1.00)	ND (1.00)	ND (2.00)	44.0	38.0	ND (340)	2.4	ND (4.5)	ND
	10/26/10	FD	ND (2.00)	ND (1.00)	220	ND (1.00)	ND (1.00)	32.0	ND (0.41)	9.00	9.70	7.10	ND (0.10)	ND (1.00)	28.0	ND (1.00)	ND (1.00)	ND (2.00)	44.0	38.0	ND (340)	1.8	ND (4.5)	ND
AOC4-O04	10/26/10	N	ND (2.10)	ND (1.10)	190	ND (1.10)	ND (1.10)	48.0	0.66	12.0	12.0	6.00	ND (0.11)	ND (1.10)	36.0	ND (1.10)	ND (1.10)	ND (2.10)	52.0	45.0	ND (350)	12	ND (4.6)	140
AOC4-O05	10/27/10	N	ND (2.10)	2.40	230	ND (1.00)	ND (1.00)	31.0	ND (0.41)	9.00	12.0	6.50	ND (0.10)	ND (1.00)	26.0	ND (1.00)	ND (1.00)	ND (2.10)	46.0	38.0	ND (340)	0.66	ND (4.5)	ND
	10/27/10	FD	ND (2.10)	2.30	200	ND (1.00)	ND (1.00)	32.0	ND (0.41)	9.20	13.0	6.60	ND (0.10)	ND (1.00)	27.0	ND (1.00)	ND (1.00)	ND (2.10)	45.0	37.0	ND (340)	0.61	ND (4.5)	ND
AOC4-O06	10/07/10	N	ND (2.00)	ND (1.00)	230	ND (1.00)	ND (1.00)	34.0	ND (0.41)	8.10	15.0	34.0	ND (0.10)	ND (1.00)	24.0	ND (1.00)	ND (1.00)	ND (2.00)	35.0	59.0	ND (340)	15	ND (4.5)	ND
AOC4-O07	10/01/10	N	ND (2.00)	ND (1.00)	130	ND (1.00)	ND (1.00)	34.0	ND (0.40)	8.80	15.0	4.10	ND (0.10)	ND (1.00)	29.0	ND (1.00)	ND (1.00)	ND (2.00)	39.0	33.0	ND (330)	12	4.5	45.0
AOC4-O08	10/01/10	N	ND (2.00)	ND (1.00)	140	ND (1.00)	ND (1.00)	25.0	ND (0.41)	6.90	15.0	5.30	ND (0.10)	ND (1.00)	21.0	ND (1.00)	ND (1.00)	ND (2.00)	35.0	43.0	ND (340)	11	5.2	130
AOC4-P03	10/04/10	N	ND (2.10)	ND (1.00)	160	ND (1.00)	ND (1.00)	27.0	ND (0.41)	6.80	11.0	4.60	ND (0.10)	ND (1.00)	18.0	ND (1.00)	ND (1.00)	ND (2.10)	34.0	30.0	ND (340)	4.6	5.0	41.0

Table 3-1
Soil Sample Results Compared to Target Endpoints Concentrations for Native and Disturbed Alluvium
PG&E Property
Implementation Report for the Time Critical Removal Action at AOC4
PG&E Topock Compressor Station, Needles, California

Location	Date	Sample Type	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Pentachloro phenol	TEQ [a]	B(a)P [b] Equivalent	Total PCBs [c]
			(mg/kg)																		(µg/kg)	(ng/kg)	(µg/kg)	(µg/kg)
Disturbed Alluvium																								
Target Endpoint Concentrations Disturbed Alluvium[2]:			**380**	**11**	**6,300**	**NA**	**810**	**1,400**	**37**	**300**	**38,000**	**800**	**180**	**4,800**	**16,000**	**4,800**	**NA**	**NA**	**5,200**	**100,000**	**9,000**	**50**	**130**	**740**
AOC4-P04	11/19/10	N	ND (2.10) J	ND (1.00)	140	ND (1.00)	ND (1.00) J	43.0	11.0	8.30	10.0	5.30	ND (0.10)	ND (1.00) J	25.0	ND (1.00) J	ND (1.00)	ND (2.10) J	37.0	33.0	ND (340)	1.8	ND (4.5)	ND
AOC4-P05	10/27/10	N	ND (2.10)	1.80	190	ND (1.00)	ND (1.00)	25.0	ND (0.41)	8.10	13.0	6.90	ND (0.10)	ND (1.00)	23.0	ND (1.00)	ND (1.00)	ND (2.10)	39.0	35.0	ND (340)	1.2	ND (4.5)	ND
	10/27/10	FD	ND (2.10)	ND (1.00)	200	ND (1.00)	ND (1.00)	24.0	ND (0.41)	8.10	12.0	6.90	ND (0.10)	ND (1.00)	23.0	ND (1.00)	ND (1.00)	ND (2.10)	39.0	36.0	ND (340)	1.5	4.5	ND
AOC4-P06	10/25/10	N	ND (2.00)	ND (2.00)	220	ND (1.00)	ND (1.00)	35.0	ND (0.41)	9.50	13.0	7.50	ND (0.10)	ND (1.00)	29.0	ND (1.00)	ND (1.00)	ND (2.00)	49.0	41.0	ND (340)	3.0	4.5	ND
AOC4-P07	10/22/10	N	ND (2.10) J	ND (1.10)	240 J	ND (1.10) J	ND (1.10) J	40.0	ND (0.43)	11.0	13.0	7.20	ND (0.11)	ND (1.10) J	32.0	ND (1.10) J	ND (1.10)	ND (2.10) J	52.0	43.0	ND (350)	26	12.0	ND
AOC4-P08	10/22/10	N	ND (2.10)	ND (1.00)	200	ND (1.00)	ND (1.00)	26.0	ND (0.41)	8.40	10.0	7.30	ND (0.10)	ND (1.00)	24.0	ND (1.00)	ND (1.00)	ND (2.10)	43.0	39.0	ND (340)	2.3	ND (4.5)	ND
AOC4-Q04	10/07/10	N	ND (2.00)	ND (1.00)	140	ND (1.00)	ND (1.00)	65.0	2.70	6.90	16.0	13.0	ND (0.10)	ND (1.00)	18.0	ND (1.00)	ND (1.00)	ND (2.00)	28.0	77.0	ND (340)	53	41.0	530
AOC4-Q05	10/07/10	N	ND (2.00)	ND (1.00)	130	ND (1.00)	ND (1.00)	22.0	0.42	7.20	19.0	11.0	ND (0.099)	ND (1.00)	14.0	ND (1.00)	ND (1.00)	ND (2.00)	26.0	61.0 J	ND (330)	58	14.0	390
	10/07/10	FD	ND (2.00)	ND (1.00)	130	ND (1.00)	ND (1.00)	23.0	0.56	5.80	19.0	8.60	ND (0.099)	ND (1.00)	13.0	ND (1.00)	ND (1.00)	ND (2.00)	25.0	48.0 J	ND (330)	55	16.0	490
AOC4-Q06	10/25/10	N	ND (2.00)	ND (1.00)	280	ND (1.00)	ND (1.00)	37.0	ND (0.41)	11.0	11.0	6.60	ND (0.10)	ND (1.00)	30.0	ND (1.00)	ND (1.00)	ND (2.00)	50.0	39.0	ND (340)	2.7	ND (4.5)	ND
AOC4-Q07	10/25/10	N	ND (2.10)	ND (1.00)	310	ND (1.00)	ND (1.00)	46.0	ND (0.41)	12.0	14.0	8.20	ND (0.10)	ND (1.00)	35.0	ND (1.00)	ND (1.00)	ND (2.10)	54.0	45.0	ND (340)	24	4.8	ND
AOC4-Q08	10/22/10	N	ND (2.10)	ND (1.10)	260	ND (1.10)	ND (1.10)	37.0	ND (0.43)	11.0	15.0	6.60	ND (0.11)	ND (1.10)	32.0	ND (1.10)	ND (1.10)	ND (2.10)	54.0	40.0	ND (350)	2.7	ND (4.6)	ND
AOC4-R05	10/29/10	N	ND (2.00)	3.60	300	ND (1.00)	ND (1.00)	35.0	ND (0.41)	11.0	13.0	6.00	ND (0.10)	ND (1.00)	30.0	ND (1.00)	ND (1.00)	ND (2.00)	53.0	42.0	ND (340)	4.3	ND (4.5)	ND
	10/29/10	FD	ND (2.10)	3.40	290	ND (1.00)	ND (1.00)	38.0	ND (0.41)	11.0	14.0	5.90	ND (0.10)	ND (1.00)	30.0	ND (1.00)	ND (1.00)	ND (2.10)	52.0	40.0	ND (340)	5.9	ND (4.5)	36.0
AOC4-R06	10/07/10	N	ND (2.00)	ND (1.00)	93.0	ND (1.00)	ND (1.00)	13.0	ND (0.40)	3.90	11.0	8.80	ND (0.10)	ND (1.00)	9.00	ND (1.00)	ND (1.00)	ND (2.00)	20.0	37.0	ND (330)	19	10.0	150
AOC4-R07	10/08/10	N	ND (2.00) J	ND (1.00)	140 J	ND (1.00)	ND (1.00) J	31.0	ND (0.40)	8.50	11.0	4.50	ND (0.099)	ND (1.00) J	27.0	ND (1.00)	ND (1.00)	ND (2.00) J	36.0	33.0	ND (330)	37	15.0	77.0
Native Alluvium																								
Target Endpoint Concentrations Native Alluvium[1]:			**3,800**	**110**	**63,000**	**NA**	**8,100**	**14,000**	**370**	**3,000**	**380,000**	**8,000**	**1,800**	**480,000**	**160,000**	**480,000**	**NA**	**NA**	**520,000**	**1,000,000**	**90,000**	**500**	**1,300**	**7,400**
AOC4-A01	03/02/10	N	ND (2.30) J	ND (1.10)	230 J	ND (1.10)	ND (1.10)	73.0 J	0.49	17.0	33.0	5.30	ND (0.11)	ND (1.10) J	55.0 J	ND (1.10) J	ND (1.10)	ND (2.30)	95.0 J	52.0 J	ND (370) J	8.0	180	140
AOC4-A01minus	03/02/10	N	ND (2.20)	2.50	330	ND (1.10)	ND (1.10)	24.0	0.50	5.30	14.0	11.0	ND (0.11)	ND (1.10)	14.0	ND (1.10)	ND (1.10)	ND (2.20)	26.0	46.0	ND (360) J	15	130	170
AOC4-A01S	04/21/10	N	ND (2.10)	4.30	360	ND (1.10)	ND (1.10)	49.0	ND (0.43)	12.0	56.0	2.70	ND (0.11)	ND (1.10)	30.0	ND (1.10)	ND (1.10)	ND (2.10)	56.0	49.0	ND (350)	1.4	120	190
AOC4-A02	02/24/10	N	ND (2.30)	3.60	350	ND (1.10)	ND (1.10)	21.0	ND (0.45)	5.80	36.0	8.40	ND (0.11)	ND (1.10)	16.0	ND (1.10)	ND (1.10)	ND (2.30)	32.0	38.0	ND (370) J	12	110	42.0
AOC4-A03	03/01/10	N	ND (2.40)	5.00	270 J	ND (1.20)	ND (1.20)	41.0	ND (0.47)	9.30	24.0	6.30 J	ND (0.11)	ND (1.20)	34.0	ND (1.20)	ND (1.20)	ND (2.40)	50.0	53.0	ND (390) J	8.3	320	110
	03/01/10	FD	ND (2.40)	4.20	220 J	ND (1.20)	ND (1.20)	40.0	ND (0.47)	9.00	24.0	8.20 J	ND (0.11)	ND (1.20)	34.0	ND (1.20)	ND (1.20)	ND (2.40)	46.0	52.0	ND (390) J	6.6	280	94.0
AOC4-A04	07/27/10	N	ND (2.00)	1.20	140	ND (1.00)	ND (1.00)	13.0	ND (0.40)	5.10	7.40	7.60	ND (0.099)	ND (1.00)	12.0	ND (1.00)	ND (1.00)	ND (2.00)	25.0	35.0	ND (330)	2.2	4.8	36.0
AOC4-A05	07/26/10	N	ND (2.00)	1.40	130	ND (1.00)	ND (1.00)	11.0	ND (0.40)	4.40	7.80	7.40	ND (0.10)	ND (1.00)	9.80	ND (1.00)	ND (1.00)	ND (2.00)	19.0	32.0	ND (330)	1.7	ND (4.4)	ND
AOC4-A06	07/26/10	N	ND (2.00)	ND (1.00)	150	ND (1.00)	ND (1.00)	22.0	ND (0.40)	6.20	7.80	6.80	ND (0.10)	ND (1.00)	16.0	ND (1.00)	ND (1.00)	ND (2.00)	29.0	33.0	ND (330)	11	ND (4.4)	ND
AOC4-A06_A07	08/10/10	N	ND (2.00) J	ND (1.00)	180 J	ND (1.00)	ND (1.00)	31.0 J	ND (0.40)	8.80	10.0	8.30	ND (0.098)	ND (1.00) J	26.0 J	ND (1.00)	ND (1.00)	ND (2.00) J	35.0 J	40.0 J	ND (330)	1.1	ND (4.4)	ND
AOC4-B01	03/03/10	N	ND (2.40)	5.50	450	ND (1.20)	ND (1.20)	26.0	ND (0.47)	9.30	17.0	2.40	ND (0.11)	ND (1.20)	22.0	ND (1.20)	ND (1.20)	ND (2.40)	60.0	47.0	ND (390) J	4.5	300	330
AOC4-B01S	04/21/10	N	ND (2.20)	4.70	250	ND (1.10)	ND (1.10)	24.0	ND (0.44)	8.00	24.0	8.40	ND (0.11)	ND (1.10)	17.0	ND (1.10)	ND (1.10)	ND (2.20)	35.0	45.0	ND (370)	ND (0.47)	110	ND
	04/21/10	FD	ND (2.20)	4.90	240	ND (1.10)	ND (1.10)	24.0	ND (0.44)	8.30	25.0	8.60	ND (0.11)	ND (1.10)	17.0	ND (1.10)	ND (1.10)	ND (2.20)	34.0	46.0	ND (360)	ND (0.51)	5.1	ND
AOC4-B02	03/17/10	N	ND (11.0) J	ND (5.40) J	770 J	ND (5.40) J	ND (5.40) J	58.0 J	1.90	12.0 J	81.0 J	44.0 J	0.29	ND (5.40) J	36.0 J	ND (5.40) J	ND (5.40) J	ND (11.0) J	65.0 J	160 J	ND (360)	67	1,000	240
AOC4-B03	03/03/10	N	2.50	4.20	1,300	ND (1.10)	1.70	100	9.70	5.40	790	220	0.52	ND (1.10)	24.0	ND (1.10)	ND (1.10)	ND (2.20)	26.0	410	ND (360) J	250	240	120
AOC4-B04	03/12/10	N	ND (2.20) J	ND (1.10)	390 J	ND (1.10)	ND (1.10)	35.0 J	0.67	9.40	7.80	4.00	ND (0.11)	ND (1.10) J	33.0 J	ND (1.10)	ND (1.10)	ND (2.20)	38.0 J	46.0 J	ND (370)	2.1	19.0	ND
AOC4-B05	07/26/10	N	ND (2.00)	ND (1.00)	180	ND (1.00)	ND (1.00)	22.0	ND (0.40)	6.40	8.40	7.90	ND (0.10)	ND (1.00)	17.0	ND (1.00)	ND (1.00)	ND (2.00)	30.0	36.0	ND (330)	4.1	13.0	38.0
AOC4-B06	07/26/10	N	ND (2.00)	ND (1.00)	190	ND (1.00)	ND (1.00)	24.0	ND (0.40)	6.40	9.00	9.70	ND (0.099)	ND (1.00)	17.0	ND (1.00)	ND (1.00)	ND (2.00)	31.0	40.0	ND (330)	8.2	29.0	69.0
AOC4-B06_B07	08/10/10	N	ND (2.00)	ND (1.00)	220	ND (1.00)	ND (1.00)	53.0	ND (0.40)	13.0	17.0	6.90	ND (0.10)	ND (1.00)	40.0	ND (1.00)	ND (1.00)	ND (2.00)	53.0	45.0	ND (330)	0.84	ND (4.4)	ND
AOC4-C01	03/02/10	N	ND (2.30)	3.60	340	ND (1.20)	ND (1.20)	84.0	0.73	7.30	45.0	5.70	ND (0.11)	ND (1.20)	23.0	ND (1.20)	ND (1.20)	ND (2.30)	39.0	55.0	ND (370) J	32	1,100	430
AOC4-C01S	04/22/10	N	ND (2.10)	3.00	200	ND (1.00)	ND (1.00)	15.0	ND (0.41)	6.10	11.0	7.00	ND (0.10)	ND (1.00)	12.0	ND (1.00)	ND (1.00)	ND (2.10)	26.0	32.0	ND (340)	0.73	22.0	ND

Table 3-1

Soil Sample Results Compared to Target Endpoints Concentrations for Native and Disturbed Alluvium

PG&E Property

Implementation Report for the Time Critical Removal Action at AOC4

PG&E Topock Compressor Station, Needles, California

Location	Date	Sample Type	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Pentachloro phenol	TEQ [a]	B(a)P [b] Equivalent	Total [c] PCBs
			(mg/kg)																		(µg/kg)	(ng/kg)	(µg/kg)	(µg/kg)
Native Alluvium																								
Target Endpoint Concentrations Native Alluvium [1]**:**			**3,800**	**110**	**63,000**	**NA**	**8,100**	**14,000**	**370**	**3,000**	**380,000**	**8,000**	**1,800**	**480,000**	**160,000**	**480,000**	**NA**	**NA**	**520,000**	**1,000,000**	**90,000**	**500**	**1,300**	**7,400**
AOC4-C02	03/29/10	N	ND (4.20)	7.60	520	ND (2.10)	ND (2.10)	64.0	ND (0.42)	6.00	26.0	5.10	ND (0.10)	ND (2.10)	25.0	ND (2.10)	ND (2.10)	ND (4.20)	56.0	50.0	ND (360)	17	270	190
AOC4-C03	03/18/10	N	2.10	1.40	700	ND (1.00)	1.10	73.0	5.30	5.90	90.0	76.0	0.25	ND (1.00)	20.0	ND (1.00)	ND (1.00)	ND (2.00)	28.0	260	ND (340)	240	210	420
AOC4-C04	03/18/10	N	ND (2.20)	5.50	500	ND (1.10)	ND (1.10)	17.0	ND (0.44)	4.40	13.0	5.40	ND (0.11)	ND (1.10)	15.0	ND (1.10)	ND (1.10)	ND (2.20)	31.0	33.0	ND (370)	4.9	9.6	55.0
AOC4-C05	07/26/10	N	ND (2.00)	2.00	140	ND (1.00)	ND (1.00)	18.0	ND (0.40)	6.20	18.0	12.0	ND (0.099)	ND (1.00)	14.0	ND (1.00)	ND (1.00)	ND (2.00)	28.0	45.0	ND (330)	8.9	18.0	140
AOC4-C06	07/26/10	N	ND (2.00)	ND (1.00)	170	ND (1.00)	ND (1.00)	29.0	ND (0.40)	7.40	9.10	6.80	ND (0.10)	ND (1.00)	22.0	ND (1.00)	ND (1.00)	ND (2.00)	38.0	36.0	ND (330)	2.6	4.4	34.0
AOC4-C06_C07	08/10/10	N	ND (2.00)	ND (1.00)	190	ND (1.00)	ND (1.00)	47.0	ND (0.40)	12.0	14.0	8.20	ND (0.099)	ND (1.00)	36.0	ND (1.00)	ND (1.00)	ND (2.00)	48.0	47.0	ND (330)	1.8	5.4	ND
	08/10/10	FD	ND (2.00)	ND (1.00)	210	ND (1.00)	ND (1.00)	51.0	ND (0.40)	13.0	16.0	7.30	ND (0.10)	ND (1.00)	41.0	ND (1.00)	ND (1.00)	ND (2.00)	52.0	47.0	ND (330)	1.6	4.9	ND
AOC4-D01	03/24/10	N	ND (2.20)	ND (1.10)	570	ND (1.10)	ND (1.10)	140	ND (0.44)	13.0	16.0	3.10	ND (0.11)	ND (1.10)	60.0	ND (1.10)	ND (1.10)	ND (2.20)	72.0	49.0	ND (360) J	14	810	360
AOC4-D01S	04/12/10	N	ND (2.10) J	ND (1.00)	160 J	ND (1.00)	ND (1.00) J	42.0 J	ND (0.41)	11.0 J	26.0	4.90 J	ND (0.10)	ND (1.00) J	33.0 J	ND (1.00) J	ND (1.00)	ND (2.10) J	51.0 J	45.0 J	ND (340)	0.9	9.9	38.0
AOC4-D02	03/19/10	N	ND (11.0)	ND (5.50)	430	ND (5.50)	ND (5.50)	150	ND (0.44)	19.0	34.0	ND (5.50)	ND (0.11)	ND (5.50)	75.0	ND (5.50)	ND (5.50)	ND (11.0)	100	86.0	ND (360)	1.8	ND (4.8)	ND
AOC4-D03	03/19/10	N	ND (2.30)	ND (1.20)	400	ND (1.20)	ND (1.20)	72.0	1.10	20.0	15.0	3.40	ND (0.12)	ND (1.20)	35.0	ND (1.20)	ND (1.20)	ND (2.30)	74.0	50.0	ND (380)	12	30.0	180
AOC4-D04	03/19/10	N	ND (2.20)	ND (1.10)	280	ND (1.10)	ND (1.10)	160	ND (0.44) J	15.0	5.90	2.40	ND (0.11)	ND (1.10)	65.0	ND (1.10)	ND (1.10)	ND (2.20)	78.0	48.0	ND (360)	3.5	ND (4.8)	43.0
AOC4-D05	07/26/10	N	ND (2.00)	ND (1.00)	160	ND (1.00)	ND (1.00)	18.0	ND (0.40)	4.40	9.80	10.0	ND (0.10)	ND (1.00)	11.0	ND (1.00)	ND (1.00)	ND (2.00)	23.0	45.0	ND (330)	140	18.0	160
AOC4-D06	07/27/10	N	ND (2.00)	ND (1.00)	190	ND (1.00)	ND (1.00)	33.0	ND (0.40)	8.70	12.0	6.20	ND (0.099)	ND (1.00)	26.0	ND (1.00)	ND (1.00)	ND (2.00)	43.0	38.0	ND (330)	4.3	4.7	ND
AOC4-E01S	04/22/10	N	ND (2.20)	3.10	460	ND (1.10)	ND (1.10)	43.0	0.92	8.20	22.0	4.80	ND (0.11)	ND (1.10)	20.0	ND (1.10)	ND (1.10)	ND (2.20)	40.0	44.0	ND (370)	46	65.0	2,600
AOC4-E02	04/16/10	N	ND (4.30)	3.80	360	ND (2.20)	ND (2.20)	55.0	0.94	13.0	13.0	2.90	ND (0.11)	ND (2.20)	38.0	ND (2.20)	ND (2.20)	ND (4.30)	73.0	55.0	ND (360)	41	ND (4.7)	530
AOC4-E03	03/25/10	N	ND (2.10)	1.80	190	ND (1.10)	ND (1.10)	67.0	1.40	12.0	5.70	3.30	ND (0.11)	ND (1.10)	33.0	ND (1.10)	ND (1.10)	ND (2.10)	66.0	50.0	ND (360)	98	13.0	1,800
AOC4-E04	03/25/10	N	ND (2.10)	ND (1.10)	210	ND (1.10)	ND (1.10)	21.0	ND (0.42)	5.80	8.70	5.30	ND (0.11)	ND (1.10)	16.0	ND (1.10)	ND (1.10)	ND (2.10)	28.0	31.0	ND (360)	3.9	4.8	520
AOC4-E05	07/27/10	N	ND (2.00) J	ND (1.00)	130 J	ND (1.00)	ND (1.00) J	23.0	ND (0.40)	6.50 J	11.0	7.50 J	ND (0.099)	ND (1.00) J	17.0 J	ND (1.00) J	ND (1.00)	ND (2.00) J	29.0	35.0 J	ND (330)	6.3	ND (4.4)	ND
	07/27/10	FD	ND (2.00) J	ND (1.00)	130 J	ND (1.00)	ND (1.00) J	24.0	ND (0.40)	6.70 J	11.0	7.10 J	ND (0.10)	ND (1.00) J	18.0 J	ND (1.00) J	ND (1.00)	ND (2.00) J	29.0 J	35.0 J	ND (330)	3.3	5.0	83.0
AOC4-E06	07/27/10	N	ND (2.00)	ND (1.00)	170	ND (1.00)	ND (1.00)	28.0	ND (0.40)	9.20	11.0	6.00	ND (0.10)	ND (1.00)	21.0	ND (1.00)	ND (1.00)	ND (2.00)	34.0	34.0	ND (330)	3.6	ND (4.4)	34.0
AOC4-F01S	04/22/10	N	ND (2.20)	2.20	360	ND (1.10)	ND (1.10)	51.0	ND (0.43)	13.0	19.0	3.70	ND (0.11)	ND (1.10)	34.0	ND (1.10)	ND (1.10)	ND (2.20)	58.0	37.0	ND (360)	1.1	ND (4.7)	52.0
AOC4-F02	03/31/10	N	ND (2.10) J	2.90 J	310 J	ND (1.10) J	ND (1.10) J	28.0 J	ND (0.42)	6.70 J	14.0 J	4.50 J	ND (0.10)	ND (1.10) J	19.0 J	ND (1.10) J	ND (1.10) J	ND (2.10) J	32.0 J	41.0 J	ND (350)	20	46.0	1,700
AOC4-F03	03/31/10	N	ND (11.0)	ND (5.30)	300	ND (5.30)	ND (5.30)	51.0	ND (0.42)	10.0	33.0	6.40	ND (0.11)	ND (5.30)	20.0	ND (5.30)	ND (5.30)	ND (11.0)	74.0	74.0	ND (350)	26	91.0	1,900
AOC4-F04	03/31/10	N	ND (2.10)	ND (1.10)	250	ND (1.10)	ND (1.10)	83.0	ND (0.43)	9.40	18.0	4.50	ND (0.11)	ND (1.10)	23.0	ND (1.10)	ND (1.10)	ND (2.10)	64.0	48.0	ND (350)	8.8	9.5	730
AOC4-F05	08/09/10	N	ND (2.00)	ND (1.00)	190	ND (1.00)	ND (1.00)	29.0	ND (0.41)	7.50	14.0	4.00	ND (0.10)	ND (1.00)	19.0	ND (1.00)	ND (1.00)	ND (2.00)	35.0	29.0	ND (340)	0.072	ND (4.5)	ND
AOC4-G01S	04/22/10	N	ND (2.10)	1.70	260	ND (1.00)	ND (1.00)	36.0	ND (0.42)	8.30	12.0	4.30	ND (0.10)	ND (1.00)	22.0	ND (1.00)	ND (1.00)	ND (2.10)	40.0	34.0	ND (340)	35	77.0	3,000
AOC4-G04	08/04/10	N	ND (2.00) J	ND (1.00)	170 J	ND (1.00)	ND (1.00) J	26.0 J	ND (0.41)	5.90	11.0	11.0 J	ND (0.10)	ND (1.00) J	14.0 J	ND (1.00) J	ND (1.00)	ND (2.00) J	28.0 J	50.0 J	ND (340)	47	44.0	2,500
AOC4-G05	08/05/10	N	ND (2.10)	ND (1.00)	400	ND (1.00)	ND (1.00)	61.0	ND (0.41)	14.0	19.0	4.40	ND (0.10)	ND (1.00)	46.0	ND (1.00)	ND (1.00)	ND (2.10)	62.0	46.0	ND (340)	0.021	ND (4.5)	ND
AOC4-G06	08/09/10	N	ND (2.00)	ND (1.00)	210	ND (1.00)	ND (1.00)	33.0	ND (0.40)	9.00	16.0	6.00	ND (0.10)	ND (1.00)	22.0	ND (1.00)	ND (1.00)	ND (2.00)	40.0	39.0	ND (330)	6.3	36.0	2,800
AOC4-H04	07/27/10	N	ND (2.00)	ND (1.00)	210	ND (1.00)	ND (1.00)	38.0	ND (0.40)	9.00	11.0	5.20	ND (0.10)	ND (1.00)	27.0	ND (1.00)	ND (1.00)	ND (2.00)	41.0	34.0	ND (330)	39	5.3	6,000
AOC4-H05	08/05/10	N	ND (2.10)	ND (1.10)	300	ND (1.10)	ND (1.10)	58.0	ND (0.42)	13.0	26.0	4.20	ND (0.10)	ND (1.10)	37.0	ND (1.10)	ND (1.10)	ND (2.10)	57.0	42.0	ND (350)	1.8	ND (4.6)	300
AOC4-I04	05/19/10	N	ND (2.20)	ND (1.10)	300	ND (1.10)	ND (1.10)	33.0	ND (0.45)	8.80	12.0	6.50	ND (0.11)	ND (1.10)	25.0	ND (1.10)	ND (1.10)	ND (2.20)	46.0	35.0	ND (370) J	13	ND (4.9)	1,200
AOC4-I05	05/24/10	N	ND (2.20)	ND (1.10)	310	ND (1.10)	ND (1.10)	60.0	ND (0.44)	15.0	33.0	9.30	ND (0.11)	ND (1.10)	43.0	ND (1.10)	ND (1.10)	ND (2.20)	73.0	52.0	ND (360)	4.3	7.0	ND
AOC4-I06	08/11/10	N	ND (2.10)	ND (1.10)	290	ND (1.10)	ND (1.10)	44.0	ND (0.43)	11.0	33.0	5.90	ND (0.11)	ND (1.10)	32.0	ND (1.10)	ND (1.10)	ND (2.10)	58.0	47.0	ND (350)	0.78	ND (4.7)	ND
AOC4-J03	05/17/10	N	ND (2.30) J	5.00	780 J	ND (1.10)	ND (1.10) J	42.0 J	ND (0.45)	7.10 J	26.0	5.50 J	ND (0.11)	ND (1.10) J	22.0 J	ND (1.10)	ND (1.10)	ND (2.30) J	46.0 J	41.0 J	ND (370) J	130	8.4	340
AOC4-J04	06/15/10	N	ND (2.00) J	1.20	160 J	ND (1.00)	ND (1.00) J	20.0	ND (0.40)	4.30 J	26.0	9.70 J	ND (0.10)	ND (1.00) J	10.0 J	ND (1.00) J	ND (1.00)	ND (2.00) J	23.0	38.0 J	ND (330)	44	23.0	320
AOC4-J05	06/07/10	N	ND (2.30)	ND (1.10)	230	ND (1.10)	ND (1.10)	60.0	ND (0.45)	15.0	29.0	4.60	ND (0.11)	ND (1.10)	42.0	ND (1.10)	ND (1.10)	ND (2.30)	66.0	47.0	ND (380)	1.6	ND (5.0)	ND
AOC4-J06	06/07/10	N	ND (2.20)	ND (1.10)	360	ND (1.10)	ND (1.10)	74.0	3.10	12.0	39.0	24.0	ND (0.11)	ND (1.10)	34.0	ND (1.10)	ND (1.10)	ND (2.20)	54.0	92.0	ND (360)	35	13.0	84.0

Table 3-1

Soil Sample Results Compared to Target Endpoints Concentrations for Native and Disturbed Alluvium

PG&E Property

Implementation Report for the Time Critical Removal Action at AOC4

PG&E Topock Compressor Station, Needles, California

Location	Date	Sample Type	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Pentachloro phenol	TEQ [a]	B(a)P [b] Equivalent	Total [c] PCBs
			(mg/kg)																		(µg/kg)	(ng/kg)	(µg/kg)	(µg/kg)
Native Alluvium																								
Target Endpoint Concentrations Native Alluvium[1]:			**3,800**	**110**	**63,000**	**NA**	**8,100**	**14,000**	**370**	**3,000**	**380,000**	**8,000**	**1,800**	**480,000**	**160,000**	**480,000**	**NA**	**NA**	**520,000**	**1,000,000**	**90,000**	**500**	**1,300**	**7,400**
AOC4-K02	05/17/10	N	ND (2.00) J	ND (1.00)	230 J	ND (1.00) J	ND (1.00) J	59.0 J	ND (0.41)	14.0 J	24.0	3.90 J	ND (0.10)	ND (1.00) J	42.0 J	ND (1.00) J	ND (1.00)	ND (2.00) J	62.0 J	46.0 J	ND (340)	3.6	ND (4.5)	ND
	05/17/10	FD	ND (2.10)	ND (1.00)	270	ND (1.00)	ND (1.00)	60.0	ND (0.41)	15.0	26.0	4.20	ND (0.10)	ND (1.00)	41.0	ND (1.00)	ND (1.00)	ND (2.10)	62.0	45.0	ND (340)	14	ND (4.5)	ND
AOC4-K04	06/16/10	N	ND (2.00)	ND (1.00)	230	ND (1.00)	ND (1.00)	52.0	2.70	8.50	39.0	71.0	0.22	ND (1.00)	26.0	ND (1.00)	ND (1.00)	ND (2.00)	39.0	130	ND (330)	29	57.0	270
AOC4-K05	06/15/10	N	2.70	ND (1.00)	720	ND (1.00)	1.50	140	16.0	11.0	210	96.0	0.51	ND (1.00)	43.0	ND (1.00)	ND (1.00)	ND (2.10)	57.0	290	ND (340)	52	26.0	180
AOC4-K06	06/15/10	N	ND (2.20)	ND (1.10)	140	ND (1.10)	ND (1.10)	52.0	ND (0.45)	12.0	20.0	4.80	ND (0.11)	ND (1.10)	35.0	ND (1.10)	ND (1.10)	ND (2.20)	59.0	41.0	ND (370)	1.9	ND (4.9)	ND
AOC4-K07	06/15/10	N	ND (2.20)	ND (1.10)	170	ND (1.10)	ND (1.10)	49.0	ND (0.44)	11.0	18.0	5.70	ND (0.11)	ND (1.10)	33.0	ND (1.10)	ND (1.10)	ND (2.20)	50.0	41.0	ND (360)	6.3	ND (4.8)	ND
AOC4-L05	06/28/10	N	ND (2.10) J	ND (1.10)	63.0 J	ND (1.10)	ND (1.10) J	54.0 J	ND (0.43)	12.0 J	25.0	7.00 J	ND (0.11)	ND (1.10) J	34.0 J	ND (1.10) J	ND (1.10)	ND (2.10) J	54.0 J	43.0 J	ND (350)	1.9	ND (4.6)	ND
AOC4-L06	06/28/10	N	ND (2.10)	ND (1.00)	160	ND (1.00)	ND (1.00)	47.0	ND (0.41)	11.0	32.0	5.60	ND (0.10)	ND (1.00)	34.0	ND (1.00)	ND (1.00)	ND (2.10)	55.0	46.0	ND (340)	22	ND (4.5)	ND
	06/28/10	FD	ND (2.10)	ND (1.00)	150	ND (1.00)	ND (1.00)	50.0	ND (0.42)	12.0	32.0	5.80	ND (0.10)	ND (1.00)	37.0	ND (1.00)	ND (1.00)	ND (2.10)	57.0	48.0	ND (340)	9.3	ND (4.5)	ND
AOC4-L07	09/16/10	N	ND (2.20) J	ND (1.10) J	270 J	ND (1.10) J	ND (1.10) J	58.0	ND (0.44)	15.0	36.0	8.10	ND (0.11)	ND (1.10) J	45.0 J	ND (1.10) J	ND (1.10)	ND (2.20) J	67.0 J	61.0 J	ND (360)	8.9	ND (4.8)	ND
	09/16/10	FD	ND (2.20) J	ND (1.10) J	230 J	ND (1.10) J	ND (1.10) J	48.0	ND (0.44)	11.0	32.0	6.10	ND (0.11)	ND (1.10) J	36.0 J	ND (1.10) J	ND (1.10)	ND (2.20) J	53.0 J	49.0 J	ND (360)	11	ND (4.8)	37.0
AOC4-M08	09/22/10	N	ND (2.10)	ND (1.00)	280	ND (1.00)	ND (1.00)	47.0	ND (0.41)	12.0	29.0	5.50	ND (0.10)	ND (1.00)	35.0	ND (1.00)	ND (1.00)	ND (2.10)	52.0	46.0	ND (340)	66	19.0	53.0

Notes:

Circled values indicate results that exceed AOC 4 Target Endpoint Concentration. Location ID (e.g. AOC4-A01) identifies the grid cell in the second section of ID (e.g. A01). Location IDs containing two adjacent grids represent samples taken near the delineation line between the two grids.

[1] Native Alluvium Target Endpoint Concentrations are 10 times the target endpoints.

[2] Distubed Alluvium Target Endpoint Concentrations include: commercial/industrial California human health screening levels and USEPA industrial regional screening levels.

[a] Dioxin/Furan toxicity equivalent, TEQ, was calculated as the sum of dioxins and furans, each multiplied by its corresponding toxicity equivalency factor, WHO 2005. A concentration of half of the RL was used for ND results.

[b] Benzo[a]pyrene, B(a)P, equivalent was calculated as the sum of carcinogenic polyaromatic hydrocarbons, each multiplied by its corresponding potency equivalency factor, CAL EPA 1994. A concentration of half of the RL was used for ND results.

[c] Total Polychlorinated Biphenyls, Total PCBs, was calculated by summing the detected concentrations of Aroclor PCB compounds plus ½ the RL for non-detect Aroclors if the Aroclor has been detected elsewhere in the AOC. If all Aroclors in a particular sample are non-detect the PCB Total is 0.

--- not applicable
µg/kg micrograms per kilogram
mg/kg milligrams per kilogram
ng/kg nanograms per kilogram
FD field duplicate
N normal sample
NA not available
ND not detected at listed reporting limit

Figures

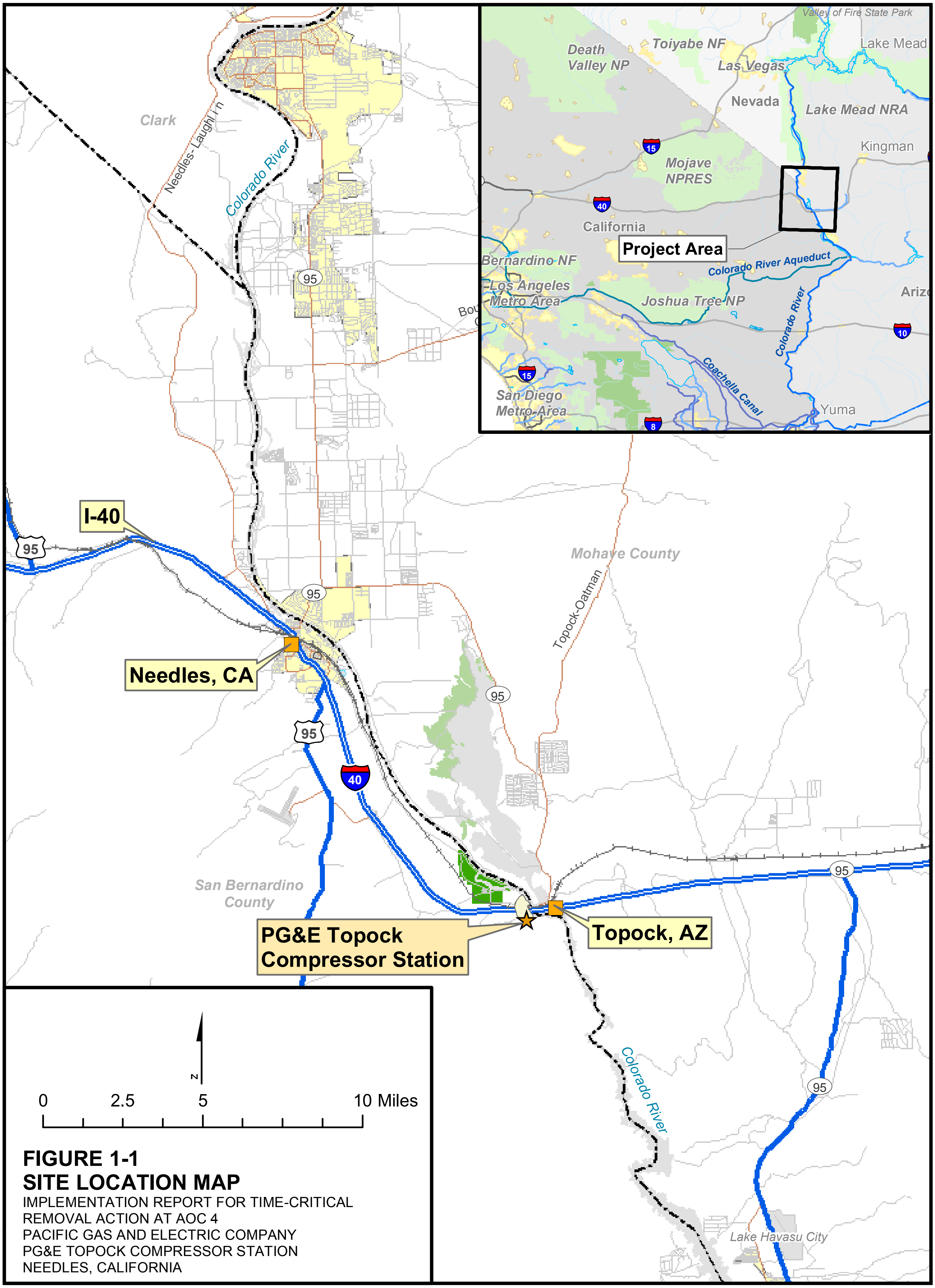


FIGURE 1-1
SITE LOCATION MAP
IMPLEMENTATION REPORT FOR TIME-CRITICAL REMOVAL ACTION AT AOC 4
PACIFIC GAS AND ELECTRIC COMPANY
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

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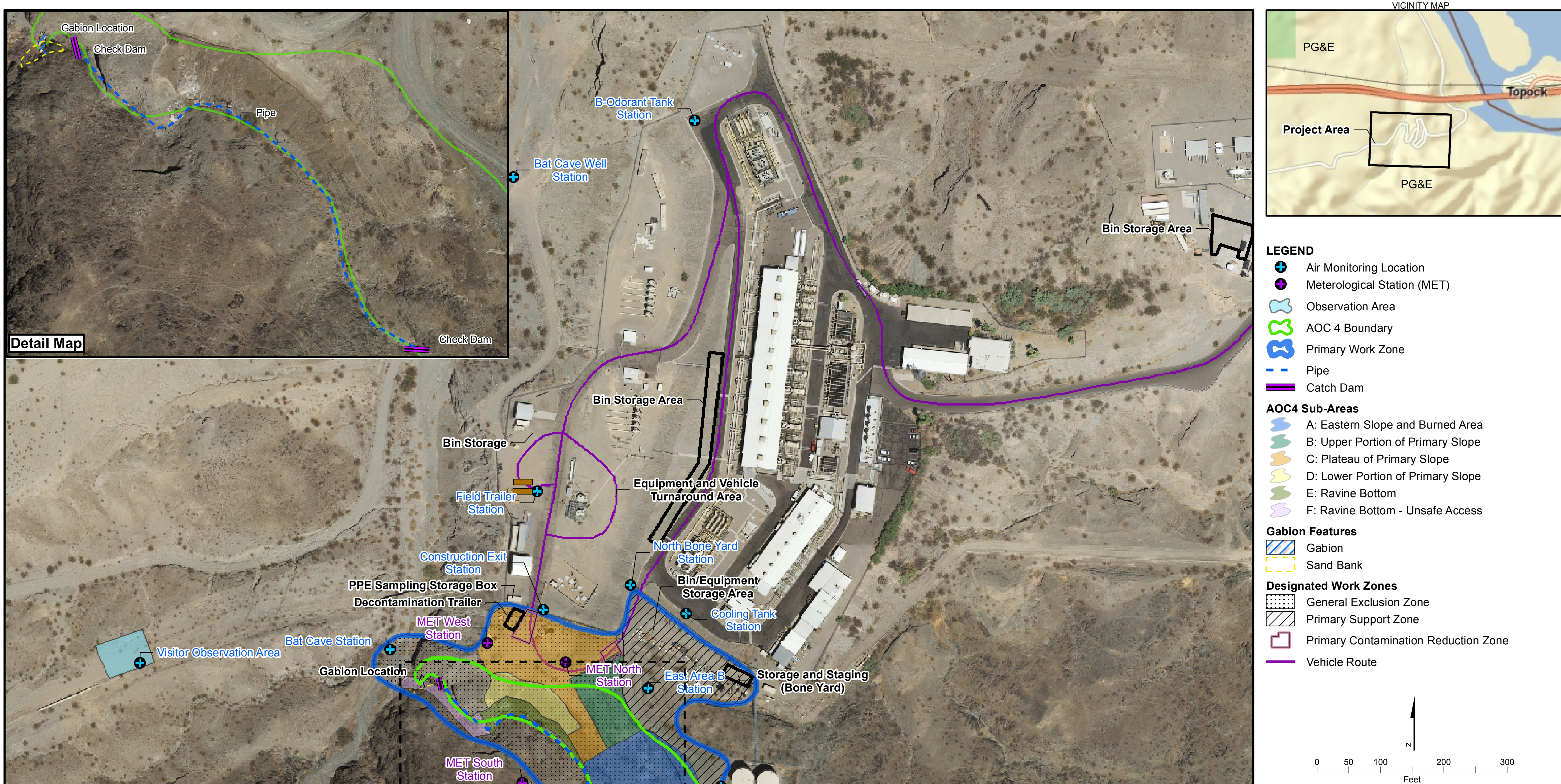

FIGURE 2-1
AOC4 SITE FEATURES
IMPLEMENTATION REPORT FOR TIME-CRITICAL REMOVAL ACTION AT AOC 4
PACIFIC GAS AND ELECTRIC COMPANY
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL

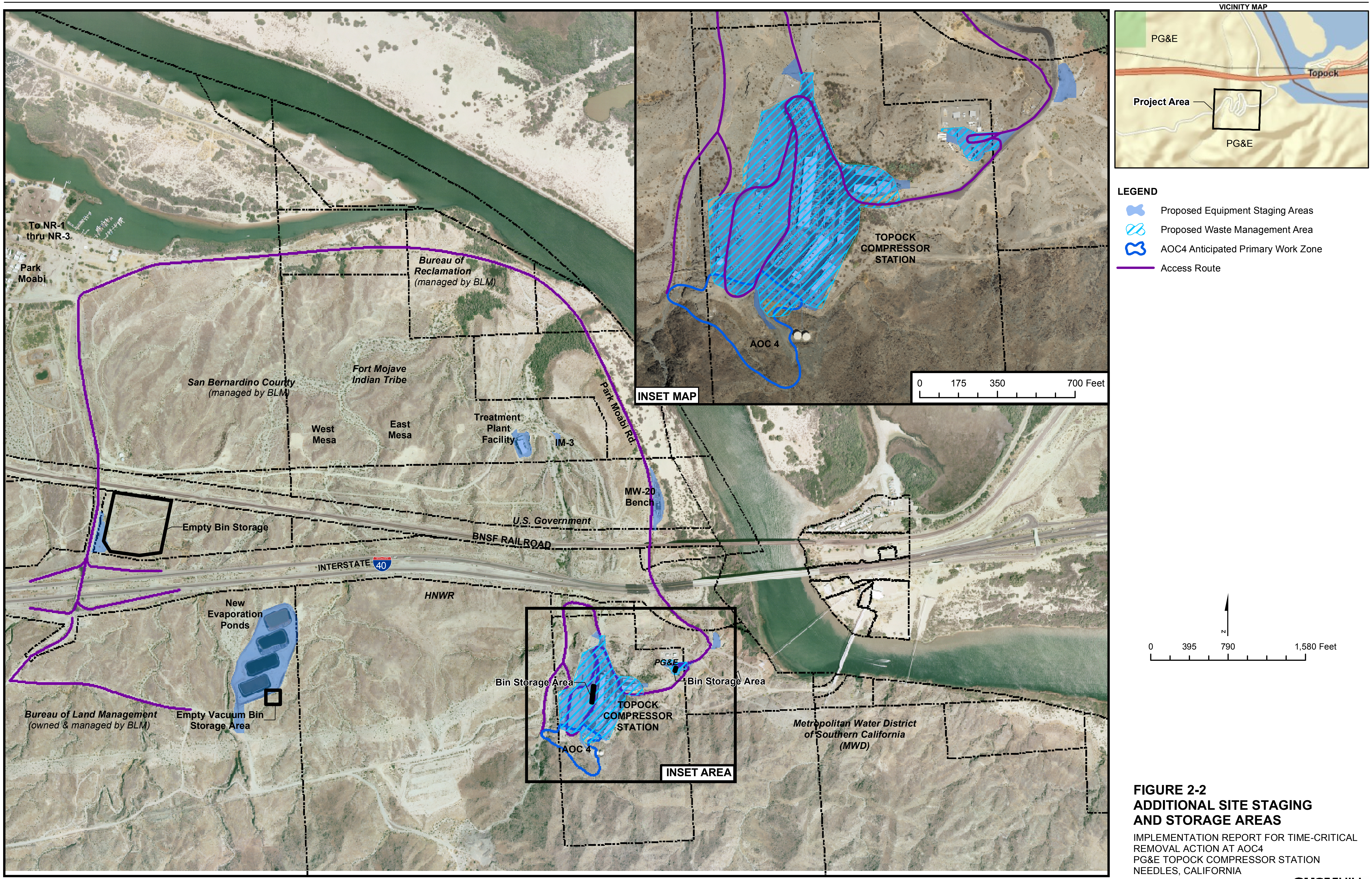

FIGURE 2-2
ADDITIONAL SITE STAGING AND STORAGE AREAS
IMPLEMENTATION REPORT FOR TIME-CRITICAL REMOVAL ACTION AT AOC4
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

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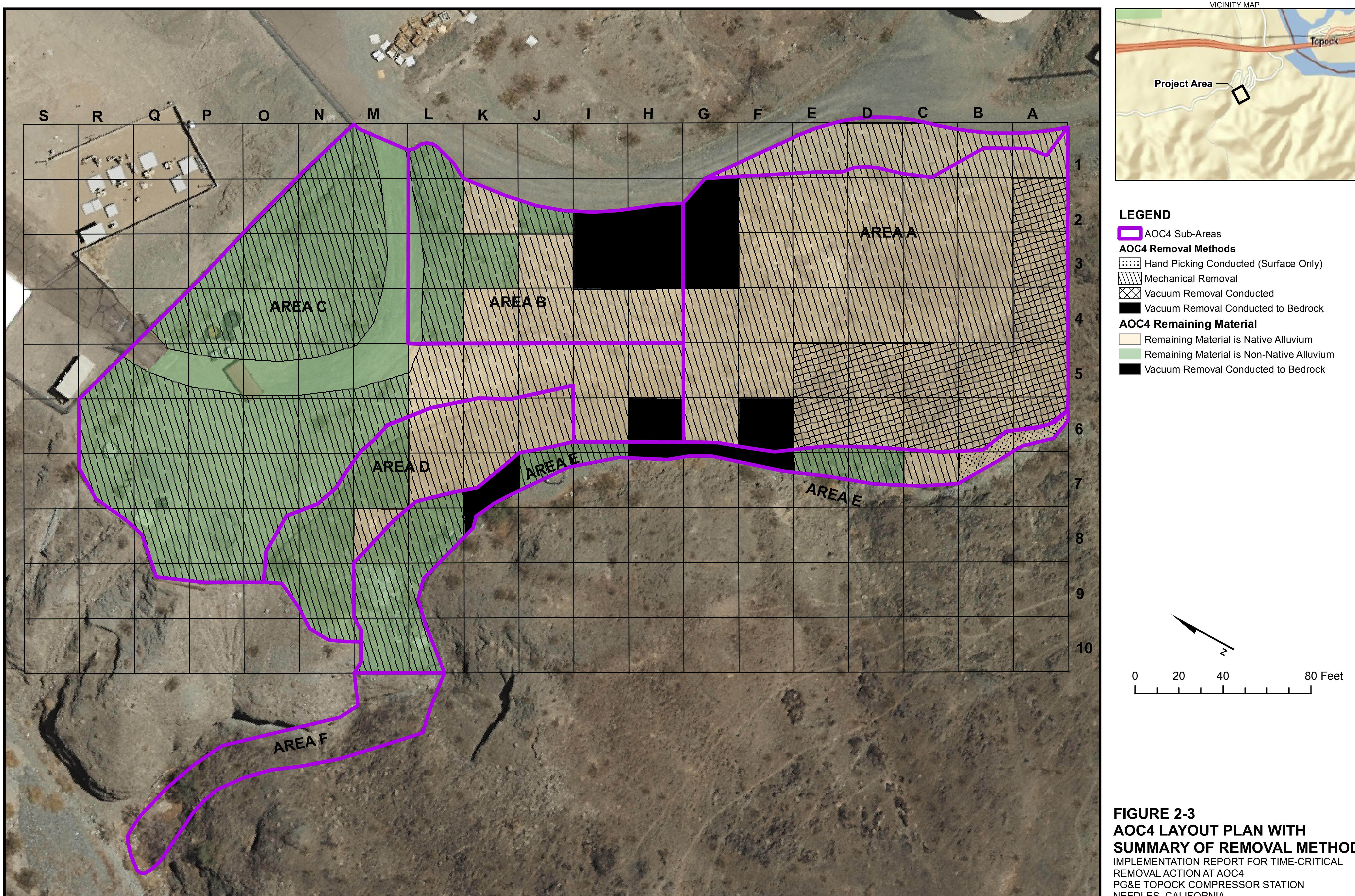
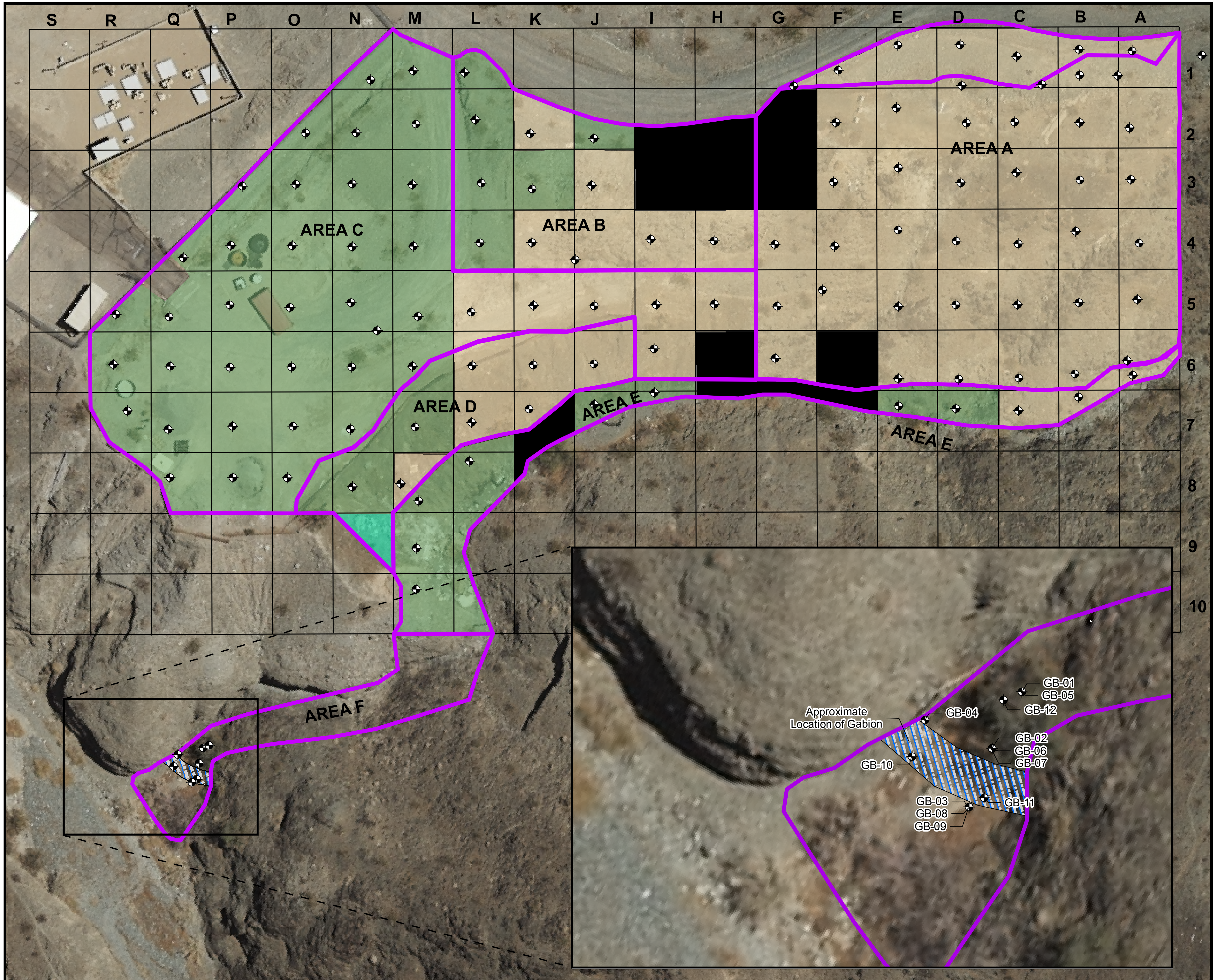
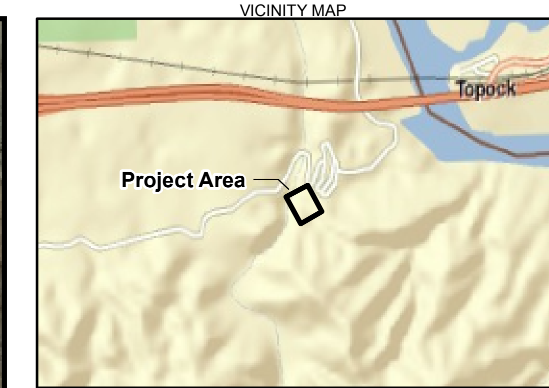


FIGURE 2-3
AOC4 LAYOUT PLAN WITH SUMMARY OF REMOVAL METHODS
IMPLEMENTATION REPORT FOR TIME-CRITICAL REMOVAL ACTION AT AOC4
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

CH2MHILL



VICINITY MAP



LEGEND

- Gabion Sample Location
- Sample Location In Grid Cell *(Note that Grid Corners Were Located in the Field Using GPS During Removal. Sample Locaiton and Extent of Removal are Estimated Based on Grid Cell Corners).*
- AOC4 Sub-Areas
- Remaining Material is Native Alluvium
- Remaining Material is Non-Native Alluvium
- Confirmation sample not taken from grid due to health and safety limitations/ restrictions
- Vacuum Removal Conducted to Bedrock
- Gabion

Notes:

1. Native Alluvium Target Endpoint Concentrations are 10 times the target endpoints.
2. Disturbed Alluvium Target Endpoint Concentrations include: commercial/industrial California human health screening levels and USEPA industrial regional screening levels.
3. Sample AOC4-A01minus was collected approximately 10 feet outside grid cell A01. The sample documented conditions at the head of a gully used as the upgradient boundary of the AOC4 project area.

N

0 20 40 80 Feet

FIGURE 3-1
AOC4 LAYOUT PLAN WITH SUMMARY OF SCREENING/CONFIRMATION RESULTS

IMPLEMENTATION REPORT FOR TIME-CRITICAL REMOVAL ACTION AT AOC 4
PACIFIC GAS AND ELECTRIC COMPANY
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

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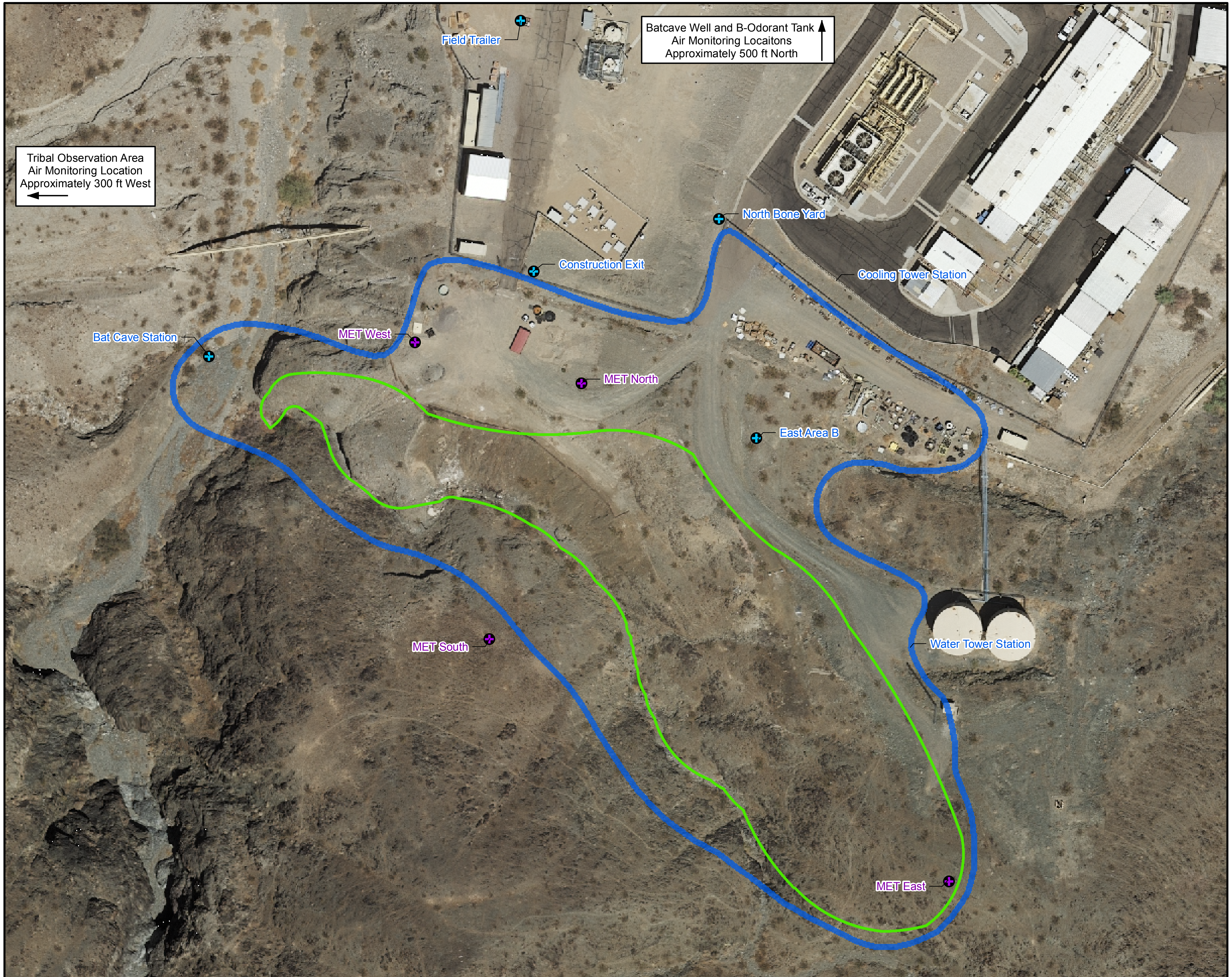

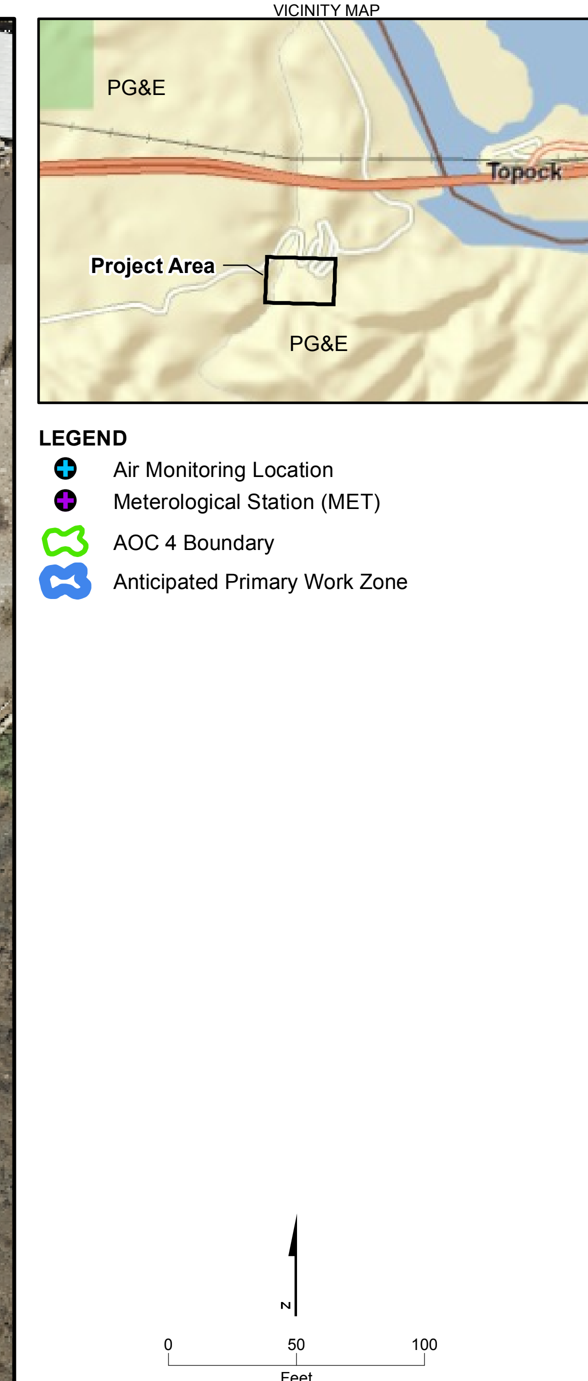

FIGURE 3-2
AOC4 AIR MONITORING STATION LOCATIONS
IMPLEMENTATION REPORT FOR TIME-CRITICAL REMOVAL ACTION AT AOC4
PG&E TOPOCK COMPRESSOR STATION
NEEDLES, CALIFORNIA

Appendix A
Field Change Requests and Variances

Appendix A
Field Change Requests and Variances

This Appendix provides a compilation of Agency correspondence related to clarifications and variances from the TCRA Work Plan. Correspondence regarding changes in methods after the start of TCRA removal regarding definitions and other clarifications to the TCRA process is summarized in Table A-1.

TABLE A-1

Field Change Requests/Variances/Agency Correspondence

Implementation Report for the Time-Critical Removal Action at AOC 4

Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA

Privileged and Confidential

Agency	Work Plan Item/Project Field Task	Date of Correspondence	
USFWS & HNWR	Work Plan Conditional Approval	7-Jan-10	Special conditions for authorized activities in letter format to PG&E, including specifications/compliance measures for gabion construction and maintenance.
	Gabion Installation Plan	22-Jan-10	Email transmittal to USFWS on behalf of PG&E.
USFWS	Weekly Progress Update Clarification	8-Mar-10	Additional bin identified in Feb. 11 update accounts used for brush removed out of Subarea F and was not applicable to be included in the total number of soil specific bins removed from Subarea F noted in weekly progress memorandum.
DOI	Weekly Progress Memorandum Content	3-Feb-10	Vebal direction by DOI to provide weekly progress memorandum to DOI, DTSC, and USFWS on behalf of PG&E to summarize all construction activities during the previous 5 working days.
	Stained Bedrock Observed in Area A	3-Apr-10	DOI notified on April 3, 2010. DOI instructed PG&E to sample. Samples taken May 20, 2010, and DOI personnel examined site on May 27, 2010. No PAH's or PCB's identified in samples. DOI recommended no further assessment or excavation at the time.
	Clarification on excavated material classification (Section 1.1 and Figure 1-3 in Workplan)	13-May-10	Definition of native alluvium expanded to include a second material defined as a unit of loosely compacted silt and sand with gravel and cobbles that directly overlies the weathered bedrock as a thin veneer and follows the native bedrock topography. The gravel and cobble sized material consists of angular rock fragments.
	Clarification on debris	19-Jul-10	Clarification due to small glass shards nondistinguishable from native alluvium left in Subarea A that were not able to be removed by manual means or by mechanical vacuuming.

DOI: United States Department of the Interior

HNWR: Havasu National Wildlife Refuge

USFWS: United States Fish and Wildlife Service

Appendix B
Permits and Notifications

Appendix B
Permits and Notifications

This appendix provides a compilation of permits and notifications since TCRA Work Plan submittal. Table B-1 summarizes these communications, permits, and approvals.

TABLE B-1
Approvals & Authorizations
Implementation Report for the Time-Critical Removal Action at AOC 4
Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA
Privileged and Confidential

Permit/ Notifications	Specific Regulation/Applicable Categories	Required Compliance	Approvals/Authorizations/Conclusions	Applicable Agency
CERCLA Section 121(e)	Obtaining any federal, state, or local permits or complying with other administrative requirements pursuant to CERCLA Section 121(e).	Compliance not required. TCRA was conducted under the authority of CERCLA Section 104.		
National Contingency Plan (40 CRF 300.415(j))	Requires that removal actions shall to the extent practicable considering the exigencies of the situation, attain applicable or relevant and appropriate federal and state environmental requirements.	Biological Evaluation & Cultural Resource Evaluation		
Programmatic Biological Assessment & SAA Conditions	Endangered Species Act (Category 4 Soil Sampling & Category 6 Restoration Activities)	Designation of Field Contact Representative, construction awareness training, construction completion report.	No additional consultation with USFWS was necessary. Special Conditions for Authorized Activities letter from Refuge Manager dated, January 7, 2010.	USFWS/CDFG/HNWR
	Mojave Desert Tortoise	Protocol survey prior to start of work	Have not been found in 5 years of protocol surveys. Gabion runoff measure serves as barrier to the work area. No additional consultation with USFWS was necessary.	
	Southwest Willow Flycatcher & Yuma Clapper Rail		Upland from sensitive riparian habitat; not applicable to nesting bird restrictions in PBA. No additional consultation with USFWS was necessary.	
	Habitat Loss/ Mesquite Tree	Habitat Loss	Tree protected during removal activities, debris was removed from the root ball and replaced with clean native soil. No additional consultation with USFWS was necessary.	
National Historic Preservation Act (Section 106)	Consultation w/ Native American Tribes and State Historic Preservation Office	Archeologist re-examined site prior to start of work and monitored activities throughout the project. Native American tribes were notified of work schedule and also monitored throughout the project.	No historical or archeological sires identified on or within the AOC 4 work area or Topock Compressor Station.	
Air Quality	Fugitive Dust Standards Rule 102 (Visible emissions, nuisance dust, and fugitive dust)	Compliant with MDAQMD requirements		MDAQMD
	Asbestos	No required compliance. Courtesy notice sent to MDAQMD on January 15, 2010, and ACM removal consistent with Class II Removal work.		
	Portable Emissions Standards	No portable equipment 50HP or greater was used		CARB

TABLE B-1

Approvals & Authorizations

Implementation Report for the Time-Critical Removal Action at AOC 4

Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA

Privileged and Confidential

Permit/ Notifications	Specific Regulation/Applicable Categories	Required Compliance	Approvals/Authorizations/Conclusions	Applicable Agency
Water Quality	Stormwater Management	Prohibiting authorized and unauthorized nonstormwater discharges causing or contributing to an exceedance of any applicable water quality standard		RWQCB
		Identifying potential pollutant sources, and implementing BMP's to prevent discharge of pollutants to stormwater and address erosion and sedimentation factors		
		Inspecting and maintaining BMPs		
		Sampling stormwater discharges to water bodies impaired due to sedimentation of discharges that could contain pollutants that are not visibly detectable		
		Performing site inspections before, during, and after storm events to evaluate BMP effectiveness		
	Surface Water Quality Standards	Master Streambed Alteration Agreement submitted to CDFG January 18, 2010 (Notification No. 1600-2005-0140-R6).		
Hazardous Waste/Materials Management			No waste removed from the site exceeded toxicity characteristic levels, and no RCRA hazardous waste was generated during removal activities.	
Oil Spill Prevention	General containment requirements	Spill Prevention, Control, and Countermeasures Plan	Update of the compressor station *Spill Prevention, Control and Countermeasures Plan* was not necessary. No petroleum products were stored on PG&E property or staging areas.	
	Specific requirements for sized secondary containment for bulk storage tanks and containers			
	Emergency response procedures			
USA Notification	Utility Locating	Prior to site work and/or digging USA survey completed.		USA
Transportation, Hazardous Materials Transport, and Waste Disposal	Transportation Permits and Manifests	Profiles established with landfills		Caltrans and DTSC

Appendix C
Waste Management Summary

Appendix C
Waste Management

This Appendix presents the documentation of the waste shipped during the TCRA activities. Table C-1 presents a summary of the waste accumulated by subarea per profile. Table C-2 presents a summary of bin information, including waste categories, subarea origins, profile numbers, and designated disposal facilities.

TABLE C-1

Waste Profile Summary

Implementation Report for the Time-Critical Removal Action at AOC 4

Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA

Privileged and Confidential

Area	Profile 1 Tons	Profile 2 Tons	Profile 3 Tons	Profile 4 Tons	Profile 5 Tons	Total Tons
A	851.28	0.68	365.36	589.64	11.94	1818.90
B			432.42	634.76		1067.18
Northern Area C					2096.49	2096.49
C, D, and E	1275.24	0.79	310.65	1504.60	3610.74	6702.02
F	109.80			4.67		114.47
Total Tons	2236.32	1.47	1108.43	2733.67	5719.17	11799.06

Profile Descriptions

Profile 1 - Clean Harbors Buttonwillow, CA. Profile Identification CH423044B for Non-RCRA with Asbestos.

Profile 2 - Clean Harbors Buttonwillow, CA. Profile Identification CH424219B for Non-RCRA with Asbestos.

Profile 3 - Waste Management Kettlemen City, CA. Profile Identification WM-CA582242 for PCB Wastes

Profile 4 - Waste Management Kettlemen City, CA. Profile Identification WM-CA581716 for Non-RCRA, no Asbestos

Profile 5 - US Ecology Inc. Beatty, NV. Profile Identification 070170614-0 for Non-RCRA, no Friable Asbestos

Notes:

Indicates that profile was not used in the disposal of a Subarea.

TABLE C-2

Implementation Report for the Time-Critical Removal Action at AOC 4
Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA
Privileged and Confidential

BIN #	BIN TYPE	DATE BIN ARRIVED ONSITE	DATE BIN INSPECTED	STATUS (FULL, PARTIAL, EMPTY)	LABELED WASTE CATEGORY	ACCUMULATION START DATE	ORIGIN OF WASTE	WASTE TYPE	WASTE VOLUME	WASTE TONNAGE	SAMPLE #S ASSOCIATED WITH WASTE	PROFILE NO.	DISPOSAL FACILITY
SUBAREA A													
AW4	vacuum	8/3/2010	8/3/2010	Full	Non-RCRA	8/10/2010	Area A - Cells F4, F5, and F6. Area E - Cells F and G. Area C - Cell H6.	Soil/rock and small debris from vacuum removal operations	7.96CY	11.94	N/A	070179625	US Ecology Beatty
868W	top load	3/30/2010	3/30/2010	Full	Non-RCRA	4/1/2010	Area A - Upper Slope (A1S and B1S)	Soil/rock, debris, PPE, and plastic sheeting.	11.9CY	17.85	Bin 868W Composite(sent to ATL for metals and TCLP and PCBs).	CA581716	Waste Management Kettleman
1046	top load	3/19/2010	3/19/2010	Full	Non-RCRA	4/5/2010	Area A - Upper Slope (B1S and C1S)	Soil/rock, debris, PPE, and plastic sheeting.	11.47CY	17.21	Bin 1046 Composite(sent to ATL for metals and TCLP and PCBs).	CA581716	Waste Management Kettleman
856	top load	3/29/2010	3/29/2010	Full	Non-RCRA	4/1/2010	Area A - Upper Slope (A1S and B1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.38CY	18.57	Bin 856 Composite(sent to ATL for metals and TCLP and PCBs).	CA581716	Waste Management Kettleman
848	top load	3/19/2010	3/19/2010	Full	Non-RCRA	4/5/2010	Area A - Upper Slope (B1S and C1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.34CY	18.51	Bin 848 Composite(sent to ATL for metals and TCLP and PCBs).	CA581716	Waste Management Kettleman
R27954PL	top load	4/14/2010	4/14/2010	Partial	Non-RCRA	4/14/2010	Area A - Bins 1046, 856, 868W, and 848.	Soil/rock, debris, PPE, and plastic sheeting.	11.23CY	16.85	N/A	CA581716	Waste Management Kettleman
865W	top load	3/30/2010	3/30/2010	Full	Non-RCRA	4/7/2010	Area A - Upper Slope (B1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.11CY	18.17	Bin 865W Composite(sent to ATL for metals and TCLP and PCBs).	CA581716	Waste Management Kettleman
859	top load	4/7/2010	4/7/2010	Full	Non-RCRA	4/7/2010	Area A - Upper Slope (B1S and C1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.57CY	18.86	Bin 859 Composite(sent to ATL for metals and TCLP and PCBs).	CA581716	Waste Management Kettleman
860	top load	4/7/2010	4/7/2010	Full	Non-RCRA	4/7/2010	Area A - Upper Slope (B1S and C1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.87CY	19.31	Bin 860 Composite(sent to ATL for metals and TCLP and PCBs).	CA581716	Waste Management Kettleman
869W	top load	3/30/2010	3/30/2010	Full	Non-RCRA	3/31/2010	Area A - Upper Slope (A1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.58CY	18.87	Bin 869W Composite(sent to ATL for metals and TCLP). PCBs added later.	CA581716	Waste Management Kettleman
806	top load	4/14/2010	4/14/2010	Full	Non-RCRA	4/16/2010	Area A - Bins 862W, 840, 859, and 860.	Soil/rock, debris, PPE, and plastic sheeting.	12.75CY	19.13	N/A	CA581716	Waste Management Kettleman

BIN #	BIN TYPE	DATE BIN ARRIVED ONSITE	DATE BIN INSPECTED	STATUS (FULL, PARTIAL, EMPTY)	LABELED WASTE CATEGORY	ACCUMULATION START DATE	ORIGIN OF WASTE	WASTE TYPE	WASTE VOLUME	WASTE TONNAGE	SAMPLE #S ASSOCIATED WITH WASTE	PROFILE NO.	DISPOSAL FACILITY
822	top load	3/29/2010	3/29/2010	Full	Non-RCRA	3/29/2010	Area A - Upper Bench (Cells G3/G4)	Soil/rock, debris, PPE, and plastic sheeting.	12.48CY	18.72	Bin 822 Composite(sent to ATL for metals and TCLP). PCBs added later.	CA581716	Waste Management Kettleman
809	top load	4/8/2010	4/8/2010	Full	Non-RCRA	4/8/2010	Area A - Upper Slope (D1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.75CY	19.13	Bin 809 Composite(sent to ATL for metals and	CA581716	Waste Management Kettleman
844	top load	3/29/2010	3/29/2010	Full	Non-RCRA	3/30/2010	Area A - Upper Bench (Cells G2/G3)	Soil/rock, debris, PPE, and plastic sheeting.	12.49CY	18.73	Bin 844 Composite(sent to ATL for metals and TCLP). PCBs added later.	CA581716	Waste Management Kettleman
862W	top load	4/8/2010	4/8/2010	Full	Non-RCRA	4/8/2010	Area A - Upper Slope (D1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.96CY	19.44	Bin 862W Composite(sent to ATL for metals and TCLP and PCBs).	CA581716	Waste Management Kettleman
841	top load	3/25/2010	3/25/2010	Full	Non-RCRA	3/29/2010	Area A - Upper Bench (Cells C2)	Soil/rock, debris, PPE, and plastic sheeting.	12.53	18.80	Bin 841 Composite(sent to ATL for metals and TCLP). PCBs added later.	CA581716	Waste Management Kettleman
R28944PL	top load	3/29/2010	3/29/2010	Full	Non-RCRA	3/29/2010	Area A - Upper Bench (Cells G2/G3)	Soil/rock, debris, PPE, and plastic sheeting.	12.50CY	18.76	Bin R28944PL Composite(sent to ATL for metals and TCLP). PCBs added later.	CA581716	Waste Management Kettleman
842	top load	3/30/2010	3/30/2010	Full	Non-RCRA	3/31/2010	Area A - Upper Slope (A1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.69CY	19.04	Bin 842Composite(sent to ATL for metals and TCLP). PCBs added later.	CA581716	Waste Management Kettleman
840	top load	4/7/2010	4/7/2010	Full	Non-RCRA	4/8/2010	Area A - Upper Slope (B1S and C1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.44CY	18.66	Bin 840 Composite(sent to ATL for metals and TCLP and PCBs).	CA581716	Waste Management Kettleman
829	top load	3/26/2010	3/26/2010	Full	Non-RCRA	3/26/2010	Area A - Upper Bench (Cells F2/G2)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.27CY	18.40	Bin 829 Composite (sent to ATL for metals and TCLP)	CA581716	Waste Management Kettleman
823	top load	3/12/2010	3/12/2010	Full	Non-RCRA	3/15/2010	Area A - Upper Bench (Cells D2)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.38CY	18.57	Bin 823 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA581716	Waste Management Kettleman
828	top load	3/25/2010	3/25/2010	Full	Non-RCRA	3/26/2010	Area A - Upper Bench (Cells F2/G2)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.22	18.33	Bin 828 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA581716	Waste Management Kettleman

BIN #	BIN TYPE	DATE BIN ARRIVED ONSITE	DATE BIN INSPECTED	STATUS (FULL, PARTIAL, EMPTY)	LABELED WASTE CATEGORY	ACCUMULATION START DATE	ORIGIN OF WASTE	WASTE TYPE	WASTE VOLUME	WASTE TONNAGE	SAMPLE #S ASSOCIATED WITH WASTE	PROFILE NO.	DISPOSAL FACILITY
832	top load	3/25/2010	3/25/2010	Full	Non-RCRA	3/29/2010	Area A - Upper Bench (Cells C2/F3)	Soil/rock, debris, PPE, and plastic sheeting.	12.16CY	18.24	Bin 832 Composite(sent to ATL for metals and TCLP). PCBs added later.	CA581716	Waste Management Kettleman
810	top load	4/15/2010	4/15/2010	Full	Non-RCRA	4/20/2010	Area A - Upper Slope (A1S and B1S)	Soil/rock, debris, PPE, and plastic sheeting.	11.78CY	17.67	N/A	CA581716	Waste Management Kettleman
852	top load	4/20/2010	4/20/2010	Full	Non-RCRA	4/20/2010	Area A - Upper Slope (B1S and C1S)	Soil/rock, debris, PPE, and plastic sheeting.	11.75CY	17.62	N/A	CA581716	Waste Management Kettleman
856	top load	4/20/2010	4/20/2010	Full	Non-RCRA	4/20/2010	Area A - Upper Slope (B1S and C1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.58CY	18.87	N/A	CA581716	Waste Management Kettleman
812	top load	4/19/2010	4/19/2010	Full	Non-RCRA	4/20/2010	Area A - Upper Slope (A1S and B1S)	Soil/rock, debris, PPE, and plastic sheeting.	10.77	16.16	N/A	CA581716	Waste Management Kettleman
817	top load	4/16/2010	4/16/2010	Full	Non-RCRA	4/16/2010	Area A - Bins 828, 829, 832, 841, 865W and 869W.	Soil/rock, debris, PPE, and plastic sheeting.	11.90CY	17.86	N/A	CA581716	Waste Management Kettleman
2028	top load	4/14/2010	4/14/2010	Full	Non-RCRA	4/19/2010	Area A - Bins 842, 822, 809, 28944PL, and 844.	Soil/rock, debris, PPE, and plastic sheeting.	9.23CY	13.85	N/A	CA581716	Waste Management Kettleman
827	top load	4/7/2010	4/7/2010	Full	Non-RCRA	4/9/2010	Area A - Upper Slope (E1S and F1S)	Soil/rock, debris, PPE, and plastic sheeting.	11.03CY	16.55	Bin 827 Composite(sent to ATL for metals and TCLP and PCBs).	CA581716	Waste Management Kettleman
848	top load	4/20/2010	4/20/2010	Full	Non-RCRA	4/21/2010	Area A - Upper Slope (C1S, E1S and F1S)	Soil/rock, debris, PPE, and plastic sheeting.	11.35CY	17.02	N/A	CA581716	Waste Management Kettleman
845	top load	4/16/2010	4/16/2010	Full	Non-RCRA	4/21/2010	Area A - Upper Slope (C1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.8CY	19.20	N/A	CA581716	Waste Management Kettleman
820	top load	4/16/2010	4/16/2010	Full	Non-RCRA	4/21/2010	Area A - Upper Slope (E1S, F1S, and G1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.2CY	18.30	N/A	CA581716	Waste Management Kettleman
870	top load	4/21/2010	4/21/2010	Full	Non-RCRA	4/21/2010	Area A - Upper Slope (E1S, F1S, and G1S)	Soil/rock, debris, PPE, and plastic sheeting.	5.59CY	8.39	N/A	CA581716	Waste Management Kettleman
857	top load	3/24/2010	3/24/2010	Full	TSCA PCB Waste	3/25/2010	Area A - Upper Bench (Cells F2/F3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	14.29CY	21.44	Bin 857 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA582242	Waste Management Kettleman
2028	top load	3/25/2010	3/25/2010	Full	TSCA PCB Waste	3/25/2010	Area A - Upper Bench (Cells F2/F3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.79CY	17.68	Bin 2028 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA582242	Waste Management Kettleman

BIN #	BIN TYPE	DATE BIN ARRIVED ONSITE	DATE BIN INSPECTED	STATUS (FULL, PARTIAL, EMPTY)	LABELED WASTE CATEGORY	ACCUMULATION START DATE	ORIGIN OF WASTE	WASTE TYPE	WASTE VOLUME	WASTE TONNAGE	SAMPLE #S ASSOCIATED WITH WASTE	PROFILE NO.	DISPOSAL FACILITY
806	top load	3/23/2010	3/23/2010	Full	TSCA PCB Waste	3/24/2010	Area A - Upper Bench (Cells E2/E3/E4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.35CY	18.52	Bin 806 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA582242	Waste Management Kettleman
R27954PL	top load	3/24/2010	3/24/2010	Full	TSCA PCB Waste	3/24/2010	Area A - Upper Bench (Cells F2/F3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12CY	18.00	Bin 27954PL Composite (sent to ATL for metals and TCLP). PCBs added later.	CA582242	Waste Management Kettleman
810	top load	3/24/2010	3/24/2010	Full	TSCA PCB Waste	3/25/2010	Area A - Upper Bench (Cells F2/F3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	13.02CY	19.53	Bin 810 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA582242	Waste Management Kettleman
853	top load	3/23/2010	3/23/2010	Full	TSCA PCB Waste	3/23/2010	Area A - Upper Bench (Cells E2/E3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.6CY	18.90	Bin 853 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA582242	Waste Management Kettleman
850	top load	3/23/2010	3/23/2010	Full	TSCA PCB Waste	3/23/2010	Area A - Upper Bench (Cells F2/F3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	13.40CY	20.11	Bin 850 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA582242	Waste Management Kettleman
845	top load	3/23/2010	3/23/2010	Full	TSCA PCB Waste	3/23/2010	Area A - Upper Bench (Cells E2/E3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.19CY	18.28	Bin 845 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA582242	Waste Management Kettleman
817	top load	3/22/2010	3/22/2010	Full	TSCA PCB Waste	3/23/2010	Area A - Upper Bench (Cells E2/E3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	18CY	17.78	Bin 817 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA582242	Waste Management Kettleman
820	top load	3/22/2010	3/22/2010	Full	TSCA PCB Waste	3/23/2010	Area A - Upper Bench (Cells E2/E3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.78CY	19.17	Bin 820 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA582242	Waste Management Kettleman
805	top load	3/22/2010	3/22/2010	Full	TSCA PCB Waste	3/23/2010	Area A - Upper Bench (Cells E2/E3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.9CY	17.85	Bin 805 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA582242	Waste Management Kettleman
852	top load	3/30/2010	3/30/2010	Full	TSCA PCB Waste	4/6/2010	Area A - Upper Slope (A1S)	Soil/rock, debris, PPE, and plastic sheeting.	11.45CY	17.18	Bin 852 Composite(sent to ATL for metals and TCLP and PCBs).	CA582242	Waste Management Kettleman

BIN #	BIN TYPE	DATE BIN ARRIVED ONSITE	DATE BIN INSPECTED	STATUS (FULL, PARTIAL, EMPTY)	LABELED WASTE CATEGORY	ACCUMULATION START DATE	ORIGIN OF WASTE	WASTE TYPE	WASTE VOLUME	WASTE TONNAGE	SAMPLE #S ASSOCIATED WITH WASTE	PROFILE NO.	DISPOSAL FACILITY
826	top load	4/12/2010	4/12/2010	Full	TSCA PCB Waste	4/12/2010	Area A - Bins 806, 810, 845, 853, and R27954PL	Soil/rock, debris, PPE, and plastic sheeting.	10.82CY	16.23	N/A	CA582242	Waste Management Kettleman
818	top load	3/24/2010	3/24/2010	Full	TSCA PCB Waste	3/24/2010	Area A - Upper Bench (Cells F2/F3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.05CY	18.07	Bin 818 Composite (sent to ATL for metals and TCLP). PCBs added later.	CA582242	Waste Management Kettleman
812	top load	3/29/2010	3/29/2010	Full	TSCA PCB Waste	4/5/2010	Area A - Upper Slope (B1S and C1S)	Soil/rock, debris, PPE, and plastic sheeting.	12.6CY	18.90	Bin 812 Composite(sent to ATL for metals and TCLP and PCBs).	CA582242	Waste Management Kettleman
870	top load	3/29/2010	3/29/2010	Full	TSCA PCB Waste	3/30/2010	Area A - Upper Bench (Cells G2/G3) and Bin 2028	Soil/rock, debris, PPE, and plastic sheeting.	12.75CY	19.13	N/A	CA582242	Waste Management Kettleman
837	top load	4/12/2010	4/12/2010	Full	TSCA PCB Waste	4/13/2010	Area A - Bins 805, 817, 852, and 818	Soil/rock, debris, PPE, and plastic sheeting.	12.95CY	19.43	N/A	CA582242	Waste Management Kettleman
857	top load	4/14/2010	4/14/2010	Full	TSCA PCB Waste	4/15/2010	Area A - Upper Bench (Cells E2)	Soil/rock, debris, PPE, and plastic sheeting.	10.17CY	15.26	N/A	CA582242	Waste Management Kettleman
853	top load	4/15/2010	4/15/2010	Full	TSCA PCB Waste	4/16/2010	Area A - Upper Bench (Cells E2)	Soil/rock, debris, PPE, and plastic sheeting.	11.17CY	16.75	N/A	CA582242	Waste Management Kettleman
850	top load	4/15/2010	4/15/2010	Full	TSCA PCB Waste	4/15/2010	Area A - Upper Bench (Cells E2)	Soil/rock, debris, PPE, and plastic sheeting.	11.43CY	17.15	N/A	CA582242	Waste Management Kettleman
1046	top load	3/1/2010	3/1/2010	Full	Non-RCRA Hazardous Waste	3/2/2010	Area A - Above Upper Bench (Cells B1)	Soil/rock, debris, PPE, and plastic sheeting.	9.38CY	14.07	N/A	CH423044B	Clean Harbors Buttonwillow
822	top load	3/1/2010	3/1/2010	Full	Non-RCRA Hazardous Waste	3/2/2010	Area A - Above Upper Bench (Cells B1)	Soil/rock, debris, PPE, and plastic sheeting.	10.3CY	15.45	N/A	CH423044B	Clean Harbors Buttonwillow
853	top load	3/1/2010	3/1/2010	Full	Non-RCRA Hazardous Waste	3/2/2010	Area A - Above Upper Bench (Cells B1)	Soil/rock, debris, PPE, and plastic sheeting.	10.41CY	15.61	N/A	CH423044B	Clean Harbors Buttonwillow
823	top load	2/9/2010	2/9/2010	Full	Non-RCRA Hazardous Waste	2/26/2010	Area A - Upper Bench (Cells B3)	Soil/rock, debris, PPE, and plastic sheeting.	9.04CY	13.56	N/A	CH423044B	Clean Harbors Buttonwillow
828	top load	2/10/2010	2/12/2010	Full	Non-RCRA Hazardous Waste	2/26/2010	Area A - Upper Bench (Cells B3)	Soil/rock, debris, PPE, and plastic sheeting.	9.25CY	13.87	N/A	CH423044B	Clean Harbors Buttonwillow
865W	top load	2/10/2010	2/12/2010	Full	Non-RCRA Hazardous Waste	2/26/2010	Area A - Upper Bench (Cells B3)	Soil/rock, debris, PPE, and plastic sheeting.	9.51CY	14.26	N/A	CH423044B	Clean Harbors Buttonwillow

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845	top load	2/26/2010	2/26/2010	Full	Non-RCRA Hazardous Waste	3/1/2010	Area A - Upper Bench (Cells B2/B3)	Burn material and ash from the south end of the upper bench.	10.69CY	16.03	Bin 845 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
832	top load	2/26/2010	2/26/2010	Full	Non-RCRA Hazardous Waste	3/1/2010	Area A - Upper Bench (Cells B2/B3)	Burn material and ash from the south end of the upper bench.	10.12CY	15.18	Bin 832 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
829	top load	3/3/2010	3/3/2010	Full	Non-RCRA Hazardous Waste	3/3/2010	Area A - Upper Bench (Cells C2/C3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	10.05CY	15.08	Same material as Bin 857	CH423044B	Clean Harbors Buttonwillow
857	top load	3/2/2010	3/2/2010	Full	Non-RCRA Hazardous Waste	3/3/2010	Area A - Upper Bench (Cells C2/C3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	10.02CY	15.03	Bin 857 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
869W	top load	3/3/2010	3/3/2010	Full	Non-RCRA Hazardous Waste	3/3/2010	Area A - Upper Bench (Cells C2/C3)	Burn material and ash from the south end of the upper bench.	10.05CY	15.08	Bin 869W Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
812	top load	2/10/2010	2/12/2010	Full	Non-RCRA Hazardous Waste	2/22/2010 (filled 2/24/10)	Area A - debris from all areas and soil from Cell A2.	Soil/rock, debris, PPE, and plastic sheeting.	9.05CY	13.58	N/A	CH423044B	Clean Harbors Buttonwillow
842	top load	2/10/2010	2/12/2010	Full	Non-RCRA Hazardous Waste	2/24/2010 (filled 2/25/10)	Area A - Upper Bench (Cells A2/B2)	Burn material and ash from the south end of the upper bench.	9.39CY	14.09	Bin 842 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
868W	top load	2/3/2010	2/3/2010	Full	Non-RCRA Hazardous Waste	2/25/2010	Area A - Upper Bench (Cells A2/B2)	Burn material and ash from the south end of the upper bench.	11.82CY	17.74	Bin 868W Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
R28944PL	top load	3/3/2010	3/3/2010	Full	Non-RCRA Hazardous Waste	3/4/2010	Area A - Upper Bench (Cells C4/C5)	Soil/rock, debris, PPE, and plastic sheeting.	9.99CY	14.98	N/A	CH423044B	Clean Harbors Buttonwillow
850	top load	3/3/2010	3/3/2010	Full	Non-RCRA Hazardous Waste	3/4/2010	Area A - Upper Bench (Cells C5)	Soil/rock, debris, PPE, and plastic sheeting.	9.56CY	14.34	N/A	CH423044B	Clean Harbors Buttonwillow
806	top load	3/1/2010	3/1/2010	Full	Non-RCRA Hazardous Waste	3/1/2010	Area A - Upper Bench (Cells B2/B3)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	9.89CY	14.84	Bin 806 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
870	top load	3/2/2010	3/2/2010	Full	Non-RCRA Hazardous Waste	3/4/2010	Area A (Cells D3)	Soil/rock, debris, PPE, and plastic sheeting.	10.6CY	15.91	N/A	CH423044B	Clean Harbors Buttonwillow
848	top load	3/1/2010	3/1/2010	Full	Non-RCRA Hazardous Waste	3/2/2010	Area A - Upper Bench (Cells B2/B3)	Soil/rock, debris, PPE, and plastic sheeting.	10.49CY	15.74	Bin 848 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
2028	top load	2/1/2010	2/1/2010	Full	Non-RCRA Hazardous Waste	3/1/2010	Area A - Upper Bench (Cells B2/B3)	Burn material and ash from the south end of the upper bench.	10.63CY	15.95	Bin 2028 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow

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844	top load	2/10/2010	2/12/2010	Full	Non-RCRA Hazardous Waste	2/25/2010	Area A - Upper Bench (Cells B2/B3)	Burn material and ash from the south end of the upper bench.	9.35CY	14.03	Bin 844 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
820	top load	Non-RCRA Hazardous Waste	3/2/2010	Full	Non-RCRA Hazardous Waste	3/2/2010	Area A - Above Upper Bench (Cells B1)	Soil/rock, debris, PPE, and plastic sheeting.	9.66CY	14.49	N/A	CH423044B	Clean Harbors Buttonwillow
852	top load	RCRA Hazardous W	2/12/2010	Full	Non-RCRA Hazardous Waste	2/25/2010	Area A - Upper Bench (Cells B2/B3)	Burn material and ash from the south end of the upper bench.	10.33CY	15.50	Bin 852 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
817	top load	Non-RCRA Hazardous Waste	3/4/2010	Full	Non-RCRA Hazardous Waste	3/12/2010	Area A (Cells C3/D3)	Soil/rock, debris, PPE, and plastic sheeting.	10.77CY	16.16	N/A	CH423044B	Clean Harbors Buttonwillow
R27954PL	top load	Non-RCRA Hazardous Waste	3/3/2010	Full	Non-RCRA Hazardous Waste	3/4/2010	Area A - Upper Bench (Cells D2)	Burn material and ash from the south end of the upper bench.	10.19CY	15.29	Bin R27954PL Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
810	top load	Non-RCRA Hazardous Waste	3/4/2010	Full	Non-RCRA Hazardous Waste	3/12/2010	Area A - Upper Bench (Cells C2/D2)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.33CY	17.00	Bin 810 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
841	top load	Non-RCRA Hazardous Waste	3/4/2010	Full	Non-RCRA Hazardous Waste	3/8/2010	Area A - Upper Bench (Cells D2)	Burn material and ash from the south end of the upper bench.	10.74CY	16.11	Bin 841 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
805	top load	Non-RCRA Hazardous Waste	3/11/2010	Full	Non-RCRA Hazardous Waste	3/12/2010	Area A - Upper Bench (Cells C2/D2)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.25CY	16.87	Bin 805 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
845	top load	Non-RCRA Hazardous Waste	3/12/2010	Full	Non-RCRA Hazardous Waste	3/15/2010	Area A - Upper Bench (Cells D2)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.38CY	17.07	Bin 845 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
853	top load	Non-RCRA Hazardous Waste	3/12/2010	Full	Non-RCRA Hazardous Waste	3/16/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.69CY	17.53	Bin 853 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
850	top load	Non-RCRA Hazardous Waste	3/15/2010	Full	Non-RCRA Hazardous Waste	3/16/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.17CY	18.26	Bin 850 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
R27954PL	top load	3/22/2010	3/22/2010	Full	Non-RCRA Hazardous Waste	3/22/2010	Area A - Upper Bench (Cells D3/D4/E3/E4)	Soil/rock, debris, PPE, and plastic sheeting.	12.86CY	19.29	N/A	CH423044B	Clean Harbors Buttonwillow

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857	top load	3/16/2010	3/16/2010	Full	Non-RCRA Hazardous Waste	3/19/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.39CY	17.09	Bin 857 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
818	top load	3/10/2010	3/10/2010	Full	Non-RCRA Hazardous Waste	3/19/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.33CY	17.00	Bin 818 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
832	top load	3/12/2010	3/12/2010	Full	Non-RCRA Hazardous Waste	3/15/2010	Area A - Upper Bench (Cells D2)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.18CY	18.27	Bin 832 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
828	top load	3/11/2010	3/11/2010	Full	Non-RCRA Hazardous Waste	3/15/2010	Area A - Upper Bench (Cells D2)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.6CY	18.90	Bin 828 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
829	top load	3/16/2010	3/16/2010	Full	Non-RCRA Hazardous Waste	3/22/2010	Area A - Upper Bench (Cells D3/D4/E3/E4)	Soil/rock, debris, PPE, and plastic sheeting.	12.68CY	19.02	N/A	CH423044B	Clean Harbors Buttonwillow
2028	top load	3/16/2010	3/16/2010	Full	Non-RCRA Hazardous Waste	3/22/2010	Area A - Upper Bench (Cells D3/D4/E3/E4)	Soil/rock, debris, PPE, and plastic sheeting.	12.93CY	19.39	N/A	CH423044B	Clean Harbors Buttonwillow
852	top load	3/22/2010	3/22/2010	Full	Non-RCRA Hazardous Waste	3/22/2010	Area A - Upper Bench (Cells D3/D4/E3/E4)	Soil/rock, debris, PPE, and plastic sheeting.	12.5CY	18.75	N/A	CH423044B	Clean Harbors Buttonwillow
841	top load	3/22/2010	3/22/2010	Full	Non-RCRA Hazardous Waste	3/22/2010	Area A - Upper Bench (Cells D3/D4/E3/E4)	Soil/rock, debris, PPE, and plastic sheeting.	6.55CY	9.82	N/A	CH423044B	Clean Harbors Buttonwillow
848	top load	3/16/2010	3/16/2010	Full	Non-RCRA Hazardous Waste	3/18/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.47CY	17.20	Bin 848 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
R28944PL	top load	3/15/2010	3/15/2010	Full	Non-RCRA Hazardous Waste	3/17/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.85CY	17.78	Bin R28944PL Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
868W	top load	3/15/2010	3/15/2010	Full	Non-RCRA Hazardous Waste	3/17/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.11CY	18.17	Bin 868W Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow

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865W	top load	3/12/2010	3/12/2010	Full	Non-RCRA Hazardous Waste	3/15/2010	Area A - Upper Bench (Cells D2)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	12.32CY	18.48	Bin 865W Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
856	top load	3/10/2010	3/10/2010	Full	Non-RCRA Hazardous Waste	3/18/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.53CY	17.29	Bin 856 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
822	top load	3/11/2010	3/11/2010	Full	Non-RCRA Hazardous Waste	3/18/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.45CY	17.18	Bin 822 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
844	top load	3/16/2010	3/16/2010	Full	Non-RCRA Hazardous Waste	3/17/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.89CY	17.84	Bin 844 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
812	top load	3/16/2010	3/16/2010	Full	Non-RCRA Hazardous Waste	3/17/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.59CY	17.38	Bin 812 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
870	top load	3/17/2010	3/17/2010	Full	Non-RCRA Hazardous Waste	3/17/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.8CY	17.70	Bin 870 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
842	top load	3/15/2010	3/15/2010	Full	Non-RCRA Hazardous Waste	3/18/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.37CY	17.05	Bin 842 Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
869W	top load	3/15/2010	3/15/2010	Full	Non-RCRA Hazardous Waste	3/18/2010	Area A - Upper Bench (Cells D2/D3/D4)	Soil/rock, debris, PPE, and plastic sheeting. **SOIL/ROCK STAINED GREEN IN SPOTS.**	11.77CY	17.66	Bin 869W Composite (sent to ATL for metals and TCLP)	CH423044B	Clean Harbors Buttonwillow
852	top load	3/25/2010	3/25/2010	Full	Non-RCRA Hazardous Waste	3/26/2010	Area A - Slope (Cells G2/G3)	Soil/rock, debris, PPE, and plastic sheeting.	14.21CY	21.32	N/A	CH423044B	Clean Harbors Buttonwillow
866W	top load	2/10/2010	2/10/2010	Partial	ACM	2/17/2010	Area A ACM Debris	Asbestos containing material (friable and non-friable) picked from the surface in Area A.	0.45CY	0.68	N/A	CH424219B	Clean Harbors Buttonwillow
										1,818.90			
SUBAREA B													
806	top load	5/5/2010	5/5/2010	Full	Non-RCRA	5/5/2010	Area B - Cell J2	Soil/rock, debris, PPE, and plastic sheeting.	11.95CY	17.92	N/A	CA581716	Waste Management Kettleman

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840	top load	5/3/2010	5/3/2010	Full	Non-RCRA	5/5/2010	Area B - Cell J2	Soil/rock, debris, PPE, and plastic sheeting.	11.9CY	17.85	N/A	CA581716	Waste Management Kettleman
842	top load	5/5/2010	5/5/2010	Full	Non-RCRA	5/5/2010	Area B - Cell J2	Soil/rock, debris, PPE, and plastic sheeting.	12.17CY	18.26	N/A	CA581716	Waste Management Kettleman
809	top load	4/23/2010	4/23/2010	Full	Non-RCRA	5/5/2010	Area B - Cell J3	Soil/rock, debris, PPE, and plastic sheeting.	12.36CY	18.54	N/A	CA581716	Waste Management Kettleman
805	top load	4/29/2010	4/29/2010	Full	Non-RCRA	5/5/2010	Area B - Cell J2	Soil/rock, debris, PPE, and plastic sheeting.	12.55CY	18.82	N/A	CA581716	Waste Management Kettleman
844	top load	4/23/2010	4/23/2010	Full	Non-RCRA	5/5/2010	Area B - Cell J2	Soil/rock, debris, PPE, and plastic sheeting.	12.32CY	18.48	N/A	CA581716	Waste Management Kettleman
837	top load	4/29/2010	4/29/2010	Full	Non-RCRA	5/6/2010	Area B - Cell J2	Soil/rock, debris, PPE, and plastic sheeting.	12.18CY	18.27	N/A	CA581716	Waste Management Kettleman
857	top load	5/6/2010	5/6/2010	Full	Non-RCRA	5/6/2010	Area B - Cell J2	Soil/rock, debris, PPE, and plastic sheeting.	11.57CY	17.36	N/A	CA581716	Waste Management Kettleman
850	top load	5/6/2010	5/6/2010	Full	Non-RCRA	5/7/2010	Area B - Cell J2	Soil/rock, debris, PPE, and plastic sheeting.	12.36CY	18.54	N/A	CA581716	Waste Management Kettleman
862W	top load	4/23/2010	4/23/2010	Full	Non-RCRA	5/7/2010	Area B - Cell J2	Soil/rock, debris, PPE, and plastic sheeting.	12.37CY	18.55	N/A	CA581716	Waste Management Kettleman
810	top load	5/7/2010	5/7/2010	Full	Non-RCRA	5/10/2010	Area B - Cell J2	Soil/rock, debris, PPE, and plastic sheeting.	11.37CY	17.05	N/A	CA581716	Waste Management Kettleman
817	top load	5/10/2010	5/10/2010	Full	Non-RCRA	5/12/2010	Area B - Cell K2 and L2	Soil/rock, debris, PPE, and plastic sheeting.	12.89CY	19.33	N/A	CA581716	Waste Management Kettleman
852	top load	5/7/2010	5/7/2010	Full	Non-RCRA	5/12/2010	Area B - Cell K2 and L2	Soil/rock, debris, PPE, and plastic sheeting.	12.08CY	18.12	N/A	CA581716	Waste Management Kettleman
2028	top load	5/10/2010	5/10/2010	Full	Non-RCRA	5/12/2010	Area B - Cell K2 and L2	Soil/rock, debris, PPE, and plastic sheeting.	12.05CY	18.07	N/A	CA581716	Waste Management Kettleman
861W	top load	4/29/2010	4/29/2010	Full	Non-RCRA	5/12/2010	Area B - Cell K2 and L2	Soil/rock, debris, PPE, and plastic sheeting.	11.31CY	16.97	N/A	CA581716	Waste Management Kettleman
829	top load	4/26/2010	4/26/2010	Full	Non-RCRA	5/11/2010	Area B - Cells L1 and L2	Soil/rock, debris, PPE, and plastic sheeting.	11.55CY	17.32	N/A	CA581716	Waste Management Kettleman
841	top load	5/6/2010	5/6/2010	Full	Non-RCRA	5/11/2010	Area B - Cells L1 and L2	Soil/rock, debris, PPE, and plastic sheeting.	11.86CY	17.79	N/A	CA581716	Waste Management Kettleman
827	top load	5/11/2010	5/11/2010	Full	Non-RCRA	5/11/2010	Area B - Cell K2 and L2	Soil/rock, debris, PPE, and plastic sheeting.	11.95CY	17.93	N/A	CA581716	Waste Management Kettleman

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868W	top load	5/4/2010	5/4/2010	Full	Non-RCRA	5/6/2010	Area B - Cell J2	Soil/rock, debris, PPE, and plastic sheeting. **Also contained material excavated from a pocket of scale-like material.**	12.45CY	18.68	Bin 868W Composite	CA581716	Waste Management Kettleman
865W	top load	5/5/2010	5/5/2010	Full	Non-RCRA	5/6/2010	Area B - Cell J2	Soil/rock, debris, PPE, and plastic sheeting. **Also contained material excavated from a pocket of scale-like material.**	12.75CY	19.12	Bin 865W Composite	CA581716	Waste Management Kettleman
869W	top load	4/22/2010	4/22/2010	Full	Non-RCRA	5/19/2010	Area B - Cells J2 and J3	Soil/rock, debris, PPE, and plastic sheeting.	10.91CY	16.37	N/A	CA581716	Waste Management Kettleman
806	top load	5/10/2010	5/10/2010	Full	Non-RCRA	5/11/2010	Area B - Cells L2 and L3	Soil/rock, debris, PPE, and plastic sheeting.	12.04CY	18.06	N/A	CA581716	Waste Management Kettleman
853	top load	4/28/2010	4/28/2010	Full	Non-RCRA	5/10/2010	Area B - Cell L3	Soil/rock, debris, PPE, and plastic sheeting.	12.21CY	18.32	N/A	CA581716	Waste Management Kettleman
822	top load	5/3/2010	5/3/2010	Full	Non-RCRA	5/10/2010	Area B - Cell K3	Soil/rock, debris, PPE, and plastic sheeting.	10.5CY	15.75	N/A	CA581716	Waste Management Kettleman
828	top load	5/6/2010	5/6/2010	Full	Non-RCRA	5/10/2010	Area B - Cell K3	Soil/rock, debris, PPE, and plastic sheeting.	12.53CY	18.79	N/A	CA581716	Waste Management Kettleman
859	top load	4/22/2010	4/22/2010	Full	Non-RCRA	5/12/2010	Area B - Cell K2 and L2	Soil/rock, debris, PPE, and plastic sheeting.	11.91CY	17.87	N/A	CA581716	Waste Management Kettleman
826	top load	5/6/2010	5/6/2010	Full	Non-RCRA	5/10/2010	Area B - Cell K3	Soil/rock, debris, PPE, and plastic sheeting.	11.09CY	16.63	N/A	CA581716	Waste Management Kettleman
837	top load	5/6/2010	5/6/2010	Full	Non-RCRA	5/17/2010	Area B - Cell K4	Soil/rock, debris, PPE, and plastic sheeting.	11.28CY	16.92	N/A	CA581716	Waste Management Kettleman
844	top load	5/6/2010	5/6/2010	Full	Non-RCRA	5/17/2010	Area B - Cell L4	Soil/rock, debris, PPE, and plastic sheeting.	13.01CY	19.52	N/A	CA581716	Waste Management Kettleman
857	top load	5/6/2010	5/6/2010	Full	Non-RCRA	5/17/2010	Area B - Cells M5, M2, M6	Soil/rock, debris, PPE, and plastic sheeting.	6.27CY	9.41	N/A	CA581716	Waste Management Kettleman
809	top load	5/10/2010	5/10/2010	Full	Non-RCRA	5/13/2010	Area B - Cell K2	Soil/rock, debris, PPE, and plastic sheeting. **Observed reddish soil that turned yellowish.**	12.39CY	18.58	K2 Composite	CA581716	Waste Management Kettleman
856	top load	5/10/2010	5/10/2010	Full	Non-RCRA	5/13/2010	Area B - Cell K2	Soil/rock, debris, PPE, and plastic sheeting. **Observed reddish soil that turned yellowish.**	10.75CY	16.13	N/A	CA581716	Waste Management Kettleman

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812	top load	5/10/2010	5/10/2010	Full	Non-RCRA	5/14/2010	Area B - Cell L1 and L2	Soil/rock, debris, PPE, and plastic sheeting.	12.19CY	18.29	N/A	CA581716	Waste Management Kettleman
850	top load	5/12/2010	5/12/2010	Full	Non-RCRA	5/14/2010	Area B - Cell K2	Soil/rock, debris, PPE, and plastic sheeting. **Observed reddish soil that turned yellowish.**	12.19CY	18.28	N/A	CA581716	Waste Management Kettleman
805	top load	5/12/2010	5/12/2010	Full	Non-RCRA	5/14/2010	Area B - Cell K2	Soil/rock, debris, PPE, and plastic sheeting. **Observed reddish soil that turned yellowish.**	11.25CY	16.88	N/A	CA581716	Waste Management Kettleman
810	top load	5/12/2010	5/12/2010	Full	Non-RCRA	5/14/2010	Area B - Cell K2	Soil/rock, debris, PPE, and plastic sheeting. **Observed reddish soil that turned yellowish.**	10.66CY	15.99	N/A	CA581716	Waste Management Kettleman
805	top load	4/15/2010	4/15/2010	Full	TSCA PCB Waste	4/22/2010	Area A and Area B - Cells G2, G3, H2, H3, and	Soil/rock, debris, PPE, and plastic sheeting.	12.13CY	18.19	N/A	CA582242	Waste Management Kettleman
861W	top load	4/12/2010	4/12/2010	Full	TSCA PCB Waste	4/14/2010	Area A - Bin 812 and Area B - Cells H2, H3, and H4	Soil/rock, debris, PPE, and plastic sheeting.	12.15CY	18.23	N/A	CA582242	Waste Management Kettleman
R27954PL	top load	4/21/2010	4/21/2010	Full	TSCA PCB Waste	4/23/2010	Area B - Cells H2, H3, and H4	Soil/rock, debris, PPE, and plastic sheeting.	11.26CY	16.89	N/A	CA582242	Waste Management Kettleman
837	top load	4/21/2010	4/21/2010	Full	TSCA PCB Waste	4/23/2010	Area B - Cells G2, G3, H2, H3, and H4	Soil/rock, debris, PPE, and plastic sheeting.	12.12CY	18.17	N/A	CA582242	Waste Management Kettleman
822	top load	4/23/2010	4/23/2010	Full	TSCA PCB Waste	4/23/2010	Area B - Cells G2, H2, and H3	Soil/rock, debris, PPE, and plastic sheeting.	12.18CY	18.27	N/A	CA582242	Waste Management Kettleman
826	top load	4/19/2010	4/19/2010	Full	TSCA PCB Waste	4/23/2010	Area B - Cells G2, H2, and H3	Soil/rock, debris, PPE, and plastic sheeting.	12.27CY	18.40	N/A	CA582242	Waste Management Kettleman
860	top load	4/22/2010	4/22/2010	Full	TSCA PCB Waste	4/26/2010	Area B - Cells H2	Soil/rock, debris, PPE, and plastic sheeting.	12.73CY	19.10	N/A	CA582242	Waste Management Kettleman
828	top load	4/26/2010	4/26/2010	Full	TSCA PCB Waste	4/26/2010	Area B - Cells H2 and I2	Soil/rock, debris, PPE, and plastic sheeting.	11.86CY	17.79	N/A	CA582242	Waste Management Kettleman
818	top load	4/19/2010	4/19/2010	Full	TSCA PCB Waste	4/26/2010	Area B - Cells H2	Soil/rock, debris, PPE, and plastic sheeting.	12.34CY	18.51	N/A	CA582242	Waste Management Kettleman
823	top load	4/26/2010	4/26/2010	Full	TSCA PCB Waste	4/26/2010	Area B - Cells H2	Soil/rock, debris, PPE, and plastic sheeting.	12.52CY	18.78	N/A	CA582242	Waste Management Kettleman
868W	top load	4/19/2010	4/19/2010	Full	TSCA PCB Waste	4/27/2010	Area B - Cells I2 and I3	Soil/rock, debris, PPE, and plastic sheeting.	11.98CY	17.97	N/A	CA582242	Waste Management Kettleman

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840	top load	4/27/2010	4/27/2010	Full	TSCA PCB Waste	4/27/2010	Area B - Cells I2 and I3	Soil/rock, debris, PPE, and plastic sheeting.	12.55CY	18.82	N/A	CA582242	Waste Management Kettleman
865W	top load	4/21/2010	4/21/2010	Full	TSCA PCB Waste	4/27/2010	Area B - Cells H2 and I2	Soil/rock, debris, PPE, and plastic sheeting.	10.89CY	16.94	N/A	CA582242	Waste Management Kettleman
842	top load	4/26/2010	4/26/2010	Full	TSCA PCB Waste	4/27/2010	Area B - Cell I4	Soil/rock, debris, PPE, and plastic sheeting.	10.99CY	16.49	N/A	CA582242	Waste Management Kettleman
R28944PL	top load	4/27/2010	4/27/2010	Full	TSCA PCB Waste	4/27/2010	Area B - Cells I3 and I4	Soil/rock, debris, PPE, and plastic sheeting.	11.13CY	16.70	N/A	CA582242	Waste Management Kettleman
806	top load	4/22/2010	4/22/2010	Full	TSCA PCB Waste	4/28/2010	Area B - Cells I2 and I3	Soil/rock, debris, PPE, and plastic sheeting.	11.78CY	17.67	N/A	CA582242	Waste Management Kettleman
841	top load	4/27/2010	4/27/2010	Full	TSCA PCB Waste	4/28/2010	Area B - Cells I2 and I3	Soil/rock, debris, PPE, and plastic sheeting.	11.22CY	16.83	N/A	CA582242	Waste Management Kettleman
857	top load	4/28/2010	4/28/2010	Full	TSCA PCB Waste	4/28/2010	Area B - Cells I2 and I3	Soil/rock, debris, PPE, and plastic sheeting.	12.15CY	18.22	N/A	CA582242	Waste Management Kettleman
832	top load	4/26/2010	4/26/2010	Empty	TSCA PCB Waste	4/28/2010	Area B - Cells I2 and I3	Soil/rock, debris, PPE, and plastic sheeting.	12.11CY	18.17	N/A	CA582242	Waste Management Kettleman
850	top load	4/28/2010	4/28/2010	Empty	TSCA PCB Waste	4/28/2010	Area B - Cells I2 and I3	Soil/rock, debris, PPE, and plastic sheeting.	11.58CY	17.37	N/A	CA582242	Waste Management Kettleman
870	top load	5/13/2010	5/13/2010	Full	TSCA PCB Waste	5/17/2010	Area B - Cell K4/L4	Soil/rock, debris, PPE, and plastic sheeting.	11.58CY	17.37	N/A	CA582242	Waste Management Kettleman
862W	top load	5/14/2010	5/14/2010	Full	TSCA PCB Waste	5/18/2010	Area B - Cell H4/H5	Soil/rock, debris, PPE, and plastic sheeting.	11.19CY	16.78	N/A	CA582242	Waste Management Kettleman
AW4	vacuum	1/20/2010	1/20/2010	Full	TSCA PCB Waste	7/12/2010	Areas A and B - Cells A4, A5, A6, B4, B5, B6, C5, C6, D5, D6, E5, E6, G2, G3, and H2.	Soil/rock and small debris from vacuum removal operations	9.97	14.95	N/A	CA582242	Waste Management Kettleman
AW 9	vacuum	1/20/2010	1/20/2010	Full	TSCA PCB Waste	7/29/2010	Area B - Cells H3, I2, and I3.	Soil/rock and small debris from vacuum removal operations	8.97CY	13.46	N/A	CA582242	Waste Management Kettleman
AW6	vacuum	8/2/2010	8/2/2010	Full	TSCA PCB Waste	8/3/2010	Areas A and B - Cells G3, H3, I3, F4, F5, and F6.	Soil/rock and small debris from vacuum removal operations	8.23CY	12.35	N/A	CA582242	Waste Management Kettleman
										1067.18			
SUBAREAS C, D, AND E													
837	top load	10/5/2010	10/5/2010	Full	Non-RCRA	10/5/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	12.13CY	18.20	N/A	070179625	US Ecology Beatty
826	top load	10/5/2010	10/5/2010	Full	Non-RCRA	10/5/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	12.43CY	18.64	N/A	070179625	US Ecology Beatty

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859	top load	10/5/2010	10/5/2010	Full	Non-RCRA	10/5/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	12.13CY	18.20	N/A	070179625	US Ecology Beatty
850	top load	10/5/2010	10/5/2010	Full	Non-RCRA	10/5/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	12.63CY	18.94	N/A	070179625	US Ecology Beatty
817	top load	10/5/2010	10/5/2010	Full	Non-RCRA	10/5/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	12.01CY	18.02	N/A	070179625	US Ecology Beatty
860	top load	10/5/2010	10/5/2010	Full	Non-RCRA	10/5/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	11.64CY	17.46	N/A	070179625	US Ecology Beatty
865W	top load	10/6/2010	10/6/2010	Full	Non-RCRA	10/6/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	12.28CY	18.42	N/A	070179625	US Ecology Beatty
810	top load	10/6/2010	10/6/2010	Full	Non-RCRA	10/6/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	11.71CY	17.56	N/A	070179625	US Ecology Beatty
844	top load	10/6/2010	10/6/2010	Full	Non-RCRA	10/6/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	11.8CY	17.70	N/A	070179625	US Ecology Beatty
857	top load	10/6/2010	10/6/2010	Full	Non-RCRA	10/6/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	11.29CY	16.94	N/A	070179625	US Ecology Beatty
856	top load	10/5/2010	10/5/2010	Full	Non-RCRA	10/5/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	11.96CY	17.94	N/A	070179625	US Ecology Beatty
828	top load	10/6/2010	10/6/2010	Full	Non-RCRA	10/6/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	12.35CY	18.53	N/A	070179625	US Ecology Beatty
837	top load	10/7/2010	10/7/2010	Full	Non-RCRA	10/19/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	11.69CY	17.53	N/A	070179625	US Ecology Beatty
850	top load	10/7/2010	10/7/2010	Full	Non-RCRA	10/19/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	12.79CY	19.18	N/A	070179625	US Ecology Beatty
826	top load	10/8/2010	10/8/2010	Full	Non-RCRA	10/19/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	12.41CY	18.61	N/A	070179625	US Ecology Beatty
829	top load	10/11/2010	10/11/2010	Full	Non-RCRA	10/19/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	13.09CY	19.64	N/A	070179625	US Ecology Beatty
805	top load	10/13/2010	10/13/2010	Full	Non-RCRA	10/19/2010	Area C Bench	Soil, debris, PPE, and plastic sheeting.	12.57CY	18.86	N/A	070179625	US Ecology Beatty
810	top load	10/8/2010	10/8/2010	Full	Non-RCRA	10/26/2010	Area C Bench - O3	Soil, debris, PPE, and plastic sheeting.	11.61CY	17.41	N/A	070179625	US Ecology Beatty
837	top load	10/25/2010	10/25/2010	Full	Non-RCRA	10/26/2010	Area C Bench - O3/O4	Soil, debris, PPE, and plastic sheeting.	12.77CY	19.15	N/A	070179625	US Ecology Beatty
856	top load	10/22/2010	10/22/2010	Full	Non-RCRA	10/26/2010	Area C Bench - O3/O4/P4P6	Soil, debris, PPE, and plastic sheeting.	13.48CY	20.22	Composite 856	070179625	US Ecology Beatty
822	top load	10/22/2010	10/22/2010	Full	Non-RCRA	10/26/2010	Area C Bench - O4/O5	Soil, debris, PPE, and plastic sheeting.	11.1CY	16.65	N/A	070179625	US Ecology Beatty
812	top load	10/25/2010	10/25/2010	Full	Non-RCRA	11/9/2010	Area C Bench - P4	Soil, debris, PPE, and plastic sheeting.	11.96CY	17.94	Composite 812	070179625	US Ecology Beatty
809	top load	10/27/2010	10/27/2010	Full	Non-RCRA	11/11/2010	Area C Bench - P4	Soil, debris, PPE, and plastic sheeting.	9.97CY	14.95	Composite 809	070179625	US Ecology Beatty
870	top load	10/29/2010	10/29/2010	Full	Non-RCRA	11/11/2010	Area C Bench - P4	Soil, debris, PPE, and plastic sheeting.	12.35CY	18.52	Composite 870	070179625	US Ecology Beatty
817	top load	10/28/2010	10/28/2010	Full	Non-RCRA	11/9/2010	Area C Bench - P4	Soil, debris, PPE, and plastic sheeting.	11.75CY	17.62	Composite 817	070179625	US Ecology Beatty
860	top load	11/9/2010	11/9/2010	Full	Non-RCRA	11/17/2010	Area C Bench - P4	Soil, debris, PPE, and plastic sheeting.	11.17CY	16.75	Composite 860	070179625	US Ecology Beatty
848	top load	10/28/2010	10/28/2010	Full	Non-RCRA	11/17/2010	Area C Bench - P4	Soil, debris, PPE, and plastic sheeting.	11.53CY	17.29	Composite 848	070179625	US Ecology Beatty

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832	top load	11/8/2010	11/8/2010	Full	Non-RCRA	11/18/2010	Area C Bench - P4	Soil, debris, PPE, and plastic sheeting.	11.49CY	17.23	Composite 832	070179625	US Ecology Beatty
859	top load	11/10/2010	11/10/2010	Full	Non-RCRA	11/12/2010	Area C Bench - P4/P5	Soil, debris, PPE, and plastic sheeting.	12.5CY	18.75	Composite 859	070179625	US Ecology Beatty
840	top load	11/9/2010	11/9/2010	Full	Non-RCRA	11/12/2010	Area C Bench - P4/P5	Soil, debris, PPE, and plastic sheeting.	13.4CY	20.10	Composite 840	070179625	US Ecology Beatty
810	top load	11/9/2010	11/9/2010	Full	Non-RCRA	11/12/2010	Area C Bench - P4/P5	Soil, debris, PPE, and plastic sheeting.	11.59CY	17.38	Composite 810	070179625	US Ecology Beatty
818	top load	10/29/2010	10/29/2010	Full	Non-RCRA	11/15/2010	Area C Bench - P4/P5/Q4	Soil, debris, PPE, and plastic sheeting.	11.41CY	17.12	Composite 818	070179625	US Ecology Beatty
827	top load	10/29/2010	10/29/2010	Full	Non-RCRA	11/15/2010	Area C Bench - P4/P5/Q4	Soil, debris, PPE, and plastic sheeting.	12.64CY	18.96	Composite 827	070179625	US Ecology Beatty
859	top load	10/26/2010	10/26/2010	Full	Non-RCRA	10/27/2010	Area C Bench - P5	Soil, debris, PPE, and plastic sheeting.	12.91CY	19.37	N/A	070179625	US Ecology Beatty
850	top load	10/26/2010	10/26/2010	Full	Non-RCRA	10/27/2010	Area C Bench - P5	Soil, debris, PPE, and plastic sheeting.	12.29CY	18.44	N/A	070179625	US Ecology Beatty
828	top load	10/21/2010	10/21/2010	Full	Non-RCRA	10/27/2010	Area C Bench - P5	Soil, debris, PPE, and plastic sheeting.	12.31CY	18.47	N/A	070179625	US Ecology Beatty
806	top load	10/21/2010	10/21/2010	Full	Non-RCRA	10/26/2010	Area C Bench - P5 and Q7 (DI)	Soil, debris, PPE, and plastic sheeting.	12.85CY	19.28	N/A	070179625	US Ecology Beatty
845	top load	10/11/2010	10/11/2010	Full	Non-RCRA	10/25/2010	Area C Bench - P6	Soil, debris, PPE, and plastic sheeting.	12.54CY	18.81	N/A	070179625	US Ecology Beatty
832	top load	10/12/2010	10/12/2010	Full	Non-RCRA	10/25/2010	Area C Bench - P6	Soil, debris, PPE, and plastic sheeting.	12.71CY	19.06	N/A	070179625	US Ecology Beatty
827	top load	10/11/2010	10/11/2010	Full	Non-RCRA	10/25/2010	Area C Bench - Q6	Soil, debris, PPE, and plastic sheeting.	11.81CY	17.72	N/A	070179625	US Ecology Beatty
818	top load	10/12/2010	10/12/2010	Full	Non-RCRA	10/25/2010	Area C Bench - Q7	Soil, debris, PPE, and plastic sheeting.	12.77CY	19.16	N/A	070179625	US Ecology Beatty
870	top load	10/12/2010	10/12/2010	Full	Non-RCRA	10/25/2010	Area C Bench - Q7	Soil, debris, PPE, and plastic sheeting.	13.07CY	19.61	N/A	070179625	US Ecology Beatty
844	top load	10/8/2010	10/8/2010	Full	Non-RCRA	10/22/2010	Area C Bench - Q7	Soil, debris, PPE, and plastic sheeting.	12.11CY	18.17	N/A	070179625	US Ecology Beatty
840	top load	10/22/2010	10/22/2010	Full	Non-RCRA	10/28/2010	Area C Bench - R5	Soil, debris, PPE, and plastic sheeting.	12.22CY	18.33	N/A	070179625	US Ecology Beatty
860	top load	10/26/2010	10/26/2010	Full	Non-RCRA	10/28/2010	Area C Bench - R5	Soil, debris, PPE, and plastic sheeting.	12.19CY	18.28	N/A	070179625	US Ecology Beatty
826	top load	10/26/2010	10/26/2010	Full	Non-RCRA	10/28/2010	Area C Bench - R5 and P4	Soil, debris, PPE, and plastic sheeting.	11.05CY	16.58	Composite 826	070179625	US Ecology Beatty
809	top load	10/13/2010	10/13/2010	Full	Non-RCRA	10/22/2010	Area C Bench - P7 and Q7	Soil, debris, PPE, and plastic sheeting.	13.23CY	19.85	N/A	070179625	US Ecology Beatty
860	top load	10/8/2010	10/8/2010	Full	Non-RCRA	10/22/2010	Area C Bench - P7, P8, and Q8	Soil, debris, PPE, and plastic sheeting.	11.95CY	17.92	N/A	070179625	US Ecology Beatty
817	top load	10/8/2010	10/8/2010	Full	Non-RCRA	10/22/2010	Area C Bench - P8 and Q8	Soil, debris, PPE, and plastic sheeting.	11.69CY	17.54	N/A	070179625	US Ecology Beatty
848	top load	10/7/2010	10/7/2010	Full	Non-RCRA	10/22/2010	Area C Bench - P8 and Q8	Soil, debris, PPE, and plastic sheeting.	12.4CY	18.60	N/A	070179625	US Ecology Beatty
AW9	vacuum	8/2/2010	8/2/2010	Partial	Non-RCRA	10/12/2010	Area E - Cells G, H, and K.	Soil/rock and small debris from vacuum removal operations	4.7CY	7.05	N/A	070179625	US Ecology Beatty
845	top load	9/15/2010	9/15/2010	Full	Non-RCRA	9/16/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.77CY	19.15	N/A	070179625	US Ecology Beatty

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842	top load	9/15/2010	9/15/2010	Full	Non-RCRA	9/16/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.4CY	18.60	N/A	070179625	US Ecology Beatty
806	top load	9/15/2010	9/15/2010	Full	Non-RCRA	9/16/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.08CY	18.12	N/A	070179625	US Ecology Beatty
822	top load	9/15/2010	9/15/2010	Full	Non-RCRA	9/16/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.22CY	18.33	N/A	070179625	US Ecology Beatty
859	top load	9/20/2010	9/20/2010	Full	Non-RCRA	9/20/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.77CY	19.15	N/A	070179625	US Ecology Beatty
841	top load	9/20/2010	9/20/2010	Full	Non-RCRA	9/20/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.12CY	18.18	N/A	070179625	US Ecology Beatty
868W	top load	9/20/2010	9/20/2010	Full	Non-RCRA	9/20/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.2CY	18.30	N/A	070179625	US Ecology Beatty
865W	top load	9/16/2010	9/16/2010	Full	Non-RCRA	9/20/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.5CY	18.75	N/A	070179625	US Ecology Beatty
844	top load	9/16/2010	9/16/2010	Full	Non-RCRA	9/16/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.79CY	19.18	N/A	070179625	US Ecology Beatty
848	top load	9/16/2010	9/16/2010	Full	Non-RCRA	9/16/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	11.73CY	17.60	N/A	070179625	US Ecology Beatty
856	top load	9/20/2010	9/20/2010	Full	Non-RCRA	9/20/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.33CY	18.50	N/A	070179625	US Ecology Beatty
850	top load	9/16/2010	9/16/2010	Full	Non-RCRA	9/20/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.16CY	18.24	N/A	070179625	US Ecology Beatty
837	top load	9/16/2010	9/16/2010	Full	Non-RCRA	9/20/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	11.85CY	17.78	N/A	070179625	US Ecology Beatty
852	top load	9/15/2010	9/15/2010	Full	Non-RCRA	9/16/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.01CY	18.02	N/A	070179625	US Ecology Beatty
828	top load	9/20/2010	9/20/2010	Full	Non-RCRA	9/20/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.34CY	18.51	N/A	070179625	US Ecology Beatty
853	top load	9/20/2010	9/20/2010	Full	Non-RCRA	9/21/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.69CY	19.04	N/A	070179625	US Ecology Beatty
817	top load	9/14/2010	9/14/2010	Full	Non-RCRA	9/16/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	11.81CY	17.72	N/A	070179625	US Ecology Beatty
810	top load	9/16/2010	9/16/2010	Full	Non-RCRA	9/16/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.06CY	18.10	N/A	070179625	US Ecology Beatty
869W	top load	9/15/2010	9/15/2010	Full	Non-RCRA	9/16/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.55CY	18.83	N/A	070179625	US Ecology Beatty
842	top load	9/21/2010	9/21/2010	Full	Non-RCRA	9/21/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	11.71CY	17.57	N/A	070179625	US Ecology Beatty
2079	top load	9/21/2010	9/21/2010	Full	Non-RCRA	9/21/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	13.05CY	19.57	N/A	070179625	US Ecology Beatty
870	top load	9/21/2010	9/21/2010	Full	Non-RCRA	9/21/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.57CY	18.66	N/A	070179625	US Ecology Beatty
861W	top load	9/21/2010	9/21/2010	Full	Non-RCRA	9/21/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.73CY	19.09	N/A	070179625	US Ecology Beatty
845	top load	9/21/2010	9/21/2010	Full	Non-RCRA	9/21/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.49CY	18.74	N/A	070179625	US Ecology Beatty
840	top load	9/21/2010	9/21/2010	Full	Non-RCRA	9/21/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.21CY	18.31	N/A	070179625	US Ecology Beatty
2028	top load	9/20/2010	9/20/2010	Full	Non-RCRA	9/21/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.47CY	18.70	N/A	070179625	US Ecology Beatty

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841	top load	9/22/2010	9/22/2010	Full	Non-RCRA	9/22/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.24CY	18.36	N/A	070179625	US Ecology Beatty
862W	top load	9/16/2010	9/16/2010	Full	Non-RCRA	9/20/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.59CY	18.89	N/A	070179625	US Ecology Beatty
805	top load	9/21/2010	9/21/2010	Full	Non-RCRA	9/22/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.39CY	18.59	N/A	070179625	US Ecology Beatty
812	top load	9/16/2010	9/16/2010	Full	Non-RCRA	9/20/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.51CY	18.76	N/A	070179625	US Ecology Beatty
832	top load	9/20/2010	9/20/2010	Full	Non-RCRA	9/21/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.62CY	18.93	N/A	070179625	US Ecology Beatty
828	top load	9/22/2010	9/22/2010	Full	Non-RCRA	9/22/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.29CY	18.43	N/A	070179625	US Ecology Beatty
818	top load	9/21/2010	9/21/2010	Full	Non-RCRA	9/22/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.41CY	18.61	N/A	070179625	US Ecology Beatty
852	top load	9/22/2010	9/22/2010	Full	Non-RCRA	9/23/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	11.99CY	17.98	N/A	070179625	US Ecology Beatty
844	top load	9/22/2010	9/22/2010	Full	Non-RCRA	9/23/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.27CY	18.40	N/A	070179625	US Ecology Beatty
809	top load	9/21/2010	9/21/2010	Full	Non-RCRA	9/22/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.05CY	18.08	N/A	070179625	US Ecology Beatty
850	top load	9/22/2010	9/22/2010	Full	Non-RCRA	9/23/2010	Areas C and D working pile	Soil, debris, PPE, and plastic sheeting.	12.69CY	19.03	N/A	070179625	US Ecology Beatty
868W	top load	7/7/2010	7/7/2010	Full	Non-RCRA	8/19/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.89CY	19.33	N/A	070179625	US Ecology Beatty
853	top load	7/13/2010	7/13/2010	Full	Non-RCRA	8/16/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.3CY	18.45	N/A	070179625	US Ecology Beatty
829	top load	7/13/2010	7/13/2010	Full	Non-RCRA	8/16/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.81CY	19.21	N/A	070179625	US Ecology Beatty
841	top load	7/13/2010	7/13/2010	Full	Non-RCRA	8/16/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13.13CY	19.70	N/A	070179625	US Ecology Beatty
818	top load	7/7/2010	7/7/2010	Full	Non-RCRA	8/19/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.99CY	19.48	N/A	070179625	US Ecology Beatty
826	top load	7/13/2010	7/13/2010	Full	Non-RCRA	8/17/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.45CY	18.67	N/A	070179625	US Ecology Beatty
827	top load	7/7/2010	7/7/2010	Full	Non-RCRA	8/18/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.15CY	18.23	N/A	070179625	US Ecology Beatty
806	top load	7/7/2010	7/7/2010	Full	Non-RCRA	8/18/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.84CY	17.76	N/A	070179625	US Ecology Beatty
2079	top load	7/13/2010	7/13/2010	Full	Non-RCRA	8/17/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.49CY	18.73	N/A	070179625	US Ecology Beatty
840	top load	7/6/2010	7/6/2010	Full	Non-RCRA	8/18/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	10.93CY	16.39	N/A	070179625	US Ecology Beatty
850	top load	7/6/2010	7/6/2010	Full	Non-RCRA	8/18/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.26CY	16.89	N/A	070179625	US Ecology Beatty
845	top load	7/13/2010	7/13/2010	Full	Non-RCRA	8/17/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.57CY	18.86	N/A	070179625	US Ecology Beatty
812	top load	7/9/2010	7/9/2010	Full	Non-RCRA	8/18/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.08CY	18.12	N/A	070179625	US Ecology Beatty
832	top load	7/9/2010	7/9/2010	Full	Non-RCRA	8/18/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.57CY	18.86	N/A	070179625	US Ecology Beatty

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856	top load	7/9/2010	7/9/2010	Full	Non-RCRA	8/18/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.3CY	18.45	N/A	070179625	US Ecology Beatty
810	top load	7/9/2010	7/9/2010	Full	Non-RCRA	8/19/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13.03CY	19.54	N/A	070179625	US Ecology Beatty
860	top load	7/9/2010	7/9/2010	Full	Non-RCRA	8/19/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.57CY	18.85	N/A	070179625	US Ecology Beatty
861W	top load	7/9/2010	7/9/2010	Full	Non-RCRA	8/19/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.43CY	18.65	N/A	070179625	US Ecology Beatty
866W	top load	7/9/2010	7/9/2010	Full	Non-RCRA	8/19/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.94CY	19.41	N/A	070179625	US Ecology Beatty
862W	top load	7/7/2010	7/7/2010	Full	Non-RCRA	8/18/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.87CY	19.31	N/A	070179625	US Ecology Beatty
822	top load	7/7/2010	7/7/2010	Full	Non-RCRA	8/23/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.99CY	19.49	N/A	070179625	US Ecology Beatty
805	top load	7/7/2010	7/7/2010	Full	Non-RCRA	8/23/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.21CY	18.32	N/A	070179625	US Ecology Beatty
865W	top load	7/7/2010	7/7/2010	Full	Non-RCRA	8/23/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.34CY	17.01	N/A	070179625	US Ecology Beatty
857	top load	8/23/2010	8/23/2010	Full	Non-RCRA	8/23/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.20CY	18.03	N/A	070179625	US Ecology Beatty
809	top load	8/23/2010	8/23/2010	Full	Non-RCRA	8/23/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13.09CY	19.64	N/A	070179625	US Ecology Beatty
837	top load	8/23/2010	8/23/2010	Full	Non-RCRA	8/23/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.33CY	18.50	N/A	070179625	US Ecology Beatty
820	top load	8/23/2010	8/23/2010	Full	Non-RCRA	8/23/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.71CY	17.57	N/A	070179625	US Ecology Beatty
852	top load	8/23/2010	8/23/2010	Full	Non-RCRA	8/23/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13.09CY	19.63	N/A	070179625	US Ecology Beatty
842	top load	8/23/2010	8/23/2010	Full	Non-RCRA	8/23/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.98CY	19.47	N/A	070179625	US Ecology Beatty
841	top load	8/24/2010	8/24/2010	Full	Non-RCRA	8/24/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.75CY	19.13	N/A	070179625	US Ecology Beatty
853	top load	8/24/2010	8/24/2010	Full	Non-RCRA	8/24/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.53CY	18.79	N/A	070179625	US Ecology Beatty
829	top load	8/24/2010	8/24/2010	Full	Non-RCRA	8/24/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.65CY	18.98	N/A	070179625	US Ecology Beatty
859	top load	8/24/2010	8/24/2010	Full	Non-RCRA	8/24/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.35CY	18.52	N/A	070179625	US Ecology Beatty
868W	top load	8/24/2010	8/24/2010	Full	Non-RCRA	8/24/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.09CY	18.14	N/A	070179625	US Ecology Beatty
853	top load	8/27/2010	8/27/2010	Full	Non-RCRA	8/27/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.77CY	17.65	N/A	070179625	US Ecology Beatty
829	top load	8/27/2010	8/27/2010	Full	Non-RCRA	8/27/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.23CY	18.35	N/A	070179625	US Ecology Beatty
870	top load	8/24/2010	8/24/2010	Full	Non-RCRA	8/24/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.95CY	17.93	N/A	070179625	US Ecology Beatty
850	top load	8/26/2010	8/26/2010	Full	Non-RCRA	8/27/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.67CY	19.00	N/A	070179625	US Ecology Beatty
869W	top load	8/23/2010	8/23/2010	Full	Non-RCRA	8/23/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.49CY	18.73	N/A	070179625	US Ecology Beatty

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806	top load	8/25/2010	8/25/2010	Full	Non-RCRA	8/25/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.16CY	18.24	N/A	070179625	US Ecology Beatty
848	top load	8/25/2010	8/25/2010	Full	Non-RCRA	8/25/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13.07CY	19.61	N/A	070179625	US Ecology Beatty
2079	top load	8/25/2010	8/25/2010	Full	Non-RCRA	8/25/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.31CY	18.46	N/A	070179625	US Ecology Beatty
826	top load	8/25/2010	8/25/2010	Full	Non-RCRA	8/25/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	10.85CY	16.27	N/A	070179625	US Ecology Beatty
817	top load	8/24/2010	8/24/2010	Full	Non-RCRA	8/24/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.61CY	18.92	N/A	070179625	US Ecology Beatty
844	top load	8/26/2010	8/26/2010	Full	Non-RCRA	8/26/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.53CY	18.79	N/A	070179625	US Ecology Beatty
859	top load	8/27/2010	8/27/2010	Full	Non-RCRA	8/27/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13.1CY	19.65	N/A	070179625	US Ecology Beatty
840	top load	8/26/2010	8/26/2010	Full	Non-RCRA	8/27/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.45CY	18.68	N/A	070179625	US Ecology Beatty
822	top load	8/26/2010	8/26/2010	Full	Non-RCRA	8/26/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.25CY	18.37	N/A	070179625	US Ecology Beatty
809	top load	8/26/2010	8/26/2010	Full	Non-RCRA	8/26/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13.07CY	19.61	N/A	070179625	US Ecology Beatty
852	top load	8/26/2010	8/26/2010	Full	Non-RCRA	8/26/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.33CY	18.50	N/A	070179625	US Ecology Beatty
818	top load	8/24/2010	8/24/2010	Full	Non-RCRA	8/26/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.11CY	18.16	N/A	070179625	US Ecology Beatty
823	top load	8/23/2010	8/23/2010	Full	Non-RCRA	8/26/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.55CY	18.82	N/A	070179625	US Ecology Beatty
837	top load	8/31/2010	8/31/2010	Full	Non-RCRA	8/31/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.51CY	18.76	N/A	070179625	US Ecology Beatty
853	top load	8/31/2010	8/31/2010	Full	Non-RCRA	8/31/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.37CY	18.56	N/A	070179625	US Ecology Beatty
870	top load	8/31/2010	8/31/2010	Full	Non-RCRA	8/31/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.93CY	19.39	N/A	070179625	US Ecology Beatty
828	top load	8/27/2010	8/27/2010	Full	Non-RCRA	8/30/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.75CY	19.13	N/A	070179625	US Ecology Beatty
868W	top load	8/27/2010	8/27/2010	Full	Non-RCRA	8/27/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.73CY	19.10	N/A	070179625	US Ecology Beatty
2028	top load	8/27/2010	8/27/2010	Full	Non-RCRA	8/30/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13.15CY	19.72	N/A	070179625	US Ecology Beatty
845	top load	8/27/2010	8/27/2010	Full	Non-RCRA	8/30/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.56CY	18.84	N/A	070179625	US Ecology Beatty
810	top load	8/30/2010	8/30/2010	Full	Non-RCRA	8/30/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13.06CY	19.59	N/A	070179625	US Ecology Beatty
860	top load	8/30/2010	8/30/2010	Full	Non-RCRA	8/30/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.71CY	19.06	N/A	070179625	US Ecology Beatty
861W	top load	8/30/2010	8/30/2010	Full	Non-RCRA	8/30/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.54CY	18.81	N/A	070179625	US Ecology Beatty
857	top load	8/27/2010	8/27/2010	Full	Non-RCRA	8/31/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.63CY	18.94	N/A	070179625	US Ecology Beatty
856	top load	8/30/2010	8/30/2010	Full	Non-RCRA	8/31/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.25CY	16.87	N/A	070179625	US Ecology Beatty

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841	top load	8/27/2010	8/27/2010	Full	Non-RCRA	8/31/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.45CY	18.68	N/A	070179625	US Ecology Beatty
812	top load	8/30/2010	8/30/2010	Full	Non-RCRA	8/31/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.56CY	18.84	N/A	070179625	US Ecology Beatty
827	top load	8/25/2010	8/25/2010	Full	Non-RCRA	8/25/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13CY	19.50	N/A	070179625	US Ecology Beatty
850	top load	9/1/2010	9/1/2010	Full	Non-RCRA	9/1/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.61CY	18.92	N/A	070179625	US Ecology Beatty
2079	top load	9/1/2010	9/1/2010	Full	Non-RCRA	9/1/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.57CY	18.86	N/A	070179625	US Ecology Beatty
832	top load	8/30/2010	8/30/2010	Full	Non-RCRA	9/1/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.05CY	18.08	N/A	070179625	US Ecology Beatty
820	top load	8/31/2010	8/31/2010	Full	Non-RCRA	9/1/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.84CY	19.26	N/A	070179625	US Ecology Beatty
826	top load	9/1/2010	9/1/2010	Full	Non-RCRA	9/1/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.69CY	19.03	N/A	070179625	US Ecology Beatty
866W	top load	8/30/2010	8/30/2010	Full	Non-RCRA	9/1/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.54CY	17.31	N/A	070179625	US Ecology Beatty
859	top load	9/2/2010	9/2/2010	Full	Non-RCRA	9/2/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.07CY	18.10	N/A	070179625	US Ecology Beatty
823	top load	9/2/2010	9/2/2010	Full	Non-RCRA	9/2/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.99CY	19.48	N/A	070179625	US Ecology Beatty
829	top load	8/31/2010	8/31/2010	Full	Non-RCRA	9/1/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.86CY	19.29	N/A	070179625	US Ecology Beatty
853	top load	9/3/2010	9/3/2010	Full	Non-RCRA	9/3/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.41CY	18.61	N/A	070179625	US Ecology Beatty
806	top load	9/1/2010	9/1/2010	Full	Non-RCRA	9/1/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.99CY	17.99	N/A	070179625	US Ecology Beatty
865W	top load	9/1/2010	9/1/2010	Full	Non-RCRA	9/1/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.18CY	18.27	N/A	070179625	US Ecology Beatty
869W	top load	9/1/2010	9/1/2010	Full	Non-RCRA	9/1/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.05CY	18.08	N/A	070179625	US Ecology Beatty
817	top load	9/1/2010	9/1/2010	Full	Non-RCRA	9/1/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.32CY	18.48	N/A	070179625	US Ecology Beatty
848	top load	9/1/2010	9/1/2010	Full	Non-RCRA	9/2/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.42CY	18.63	N/A	070179625	US Ecology Beatty
844	top load	9/2/2010	9/2/2010	Full	Non-RCRA	9/2/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.62CY	18.94	N/A	070179625	US Ecology Beatty
852	top load	9/2/2010	9/2/2010	Full	Non-RCRA	9/2/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.39CY	18.59	N/A	070179625	US Ecology Beatty
822	top load	9/2/2010	9/2/2010	Full	Non-RCRA	9/2/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.71CY	19.06	N/A	070179625	US Ecology Beatty
2079	top load	9/7/2010	9/7/2010	Full	Non-RCRA	9/7/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.89CY	19.34	N/A	070179625	US Ecology Beatty
845	top load	9/7/2010	9/7/2010	Full	Non-RCRA	9/7/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.37CY	18.56	N/A	070179625	US Ecology Beatty
840	top load	9/2/2010	9/2/2010	Full	Non-RCRA	9/2/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.81CY	19.21	N/A	070179625	US Ecology Beatty
809	top load	9/2/2010	9/2/2010	Full	Non-RCRA	9/3/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.65CY	18.98	N/A	070179625	US Ecology Beatty

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832	top load	9/3/2010	9/3/2010	Full	Non-RCRA	9/3/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.59CY	18.89	N/A	070179625	US Ecology Beatty
842	top load	9/8/2010	9/8/2010	Full	Non-RCRA	9/8/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.12CY	18.18	N/A	070179625	US Ecology Beatty
810	top load	9/7/2010	9/7/2010	Full	Non-RCRA	9/7/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.05CY	18.07	N/A	070179625	US Ecology Beatty
818	top load	9/2/2010	9/2/2010	Full	Non-RCRA	9/3/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13.34CY	20.01	N/A	070179625	US Ecology Beatty
866W	top load	9/8/2010	9/8/2010	Full	Non-RCRA	9/8/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.79CY	19.19	N/A	070179625	US Ecology Beatty
841	top load	9/8/2010	9/8/2010	Full	Non-RCRA	9/8/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.89CY	19.34	N/A	070179625	US Ecology Beatty
856	top load	9/8/2010	9/8/2010	Full	Non-RCRA	9/8/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.54CY	18.81	N/A	070179625	US Ecology Beatty
812	top load	9/8/2010	9/8/2010	Full	Non-RCRA	9/8/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.59CY	18.88	N/A	070179625	US Ecology Beatty
857	top load	9/8/2010	9/8/2010	Full	Non-RCRA	9/8/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.08CY	18.12	N/A	070179625	US Ecology Beatty
829	top load	9/8/2010	9/8/2010	Full	Non-RCRA	9/8/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.25CY	18.37	N/A	070179625	US Ecology Beatty
868W	top load	9/8/2010	9/8/2010	Full	Non-RCRA	9/8/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.07CY	18.11	N/A	070179625	US Ecology Beatty
859	top load	9/8/2010	9/8/2010	Full	Non-RCRA	9/8/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12CY	18.00	N/A	070179625	US Ecology Beatty
823	top load	9/8/2010	9/8/2010	Full	Non-RCRA	9/8/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.67CY	19.00	N/A	070179625	US Ecology Beatty
837	top load	9/3/2010	9/3/2010	Full	Non-RCRA	9/3/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.43CY	18.64	N/A	070179625	US Ecology Beatty
820	top load	9/3/2010	9/3/2010	Full	Non-RCRA	9/3/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13.09CY	19.64	N/A	070179625	US Ecology Beatty
850	top load	9/3/2010	9/3/2010	Full	Non-RCRA	9/3/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.11CY	18.16	N/A	070179625	US Ecology Beatty
870	top load	9/3/2010	9/3/2010	Full	Non-RCRA	9/7/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.22CY	18.33	N/A	070179625	US Ecology Beatty
826	top load	9/3/2010	9/3/2010	Full	Non-RCRA	9/7/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.89CY	19.34	N/A	070179625	US Ecology Beatty
828	top load	9/7/2010	9/7/2010	Full	Non-RCRA	9/7/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.74CY	19.12	N/A	070179625	US Ecology Beatty
2028	top load	9/7/2010	9/7/2010	Full	Non-RCRA	9/7/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	13.08CY	19.63	N/A	070179625	US Ecology Beatty
817	top load	9/9/2010	9/9/2010	Full	Non-RCRA	9/10/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.31CY	18.47	N/A	070179625	US Ecology Beatty
861W	top load	9/7/2010	9/7/2010	Full	Non-RCRA	9/7/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.92CY	19.38	N/A	070179625	US Ecology Beatty
840	top load	9/10/2010	9/10/2010	Full	Non-RCRA	9/10/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.66CY	18.99	N/A	070179625	US Ecology Beatty
809	top load	9/10/2010	9/10/2010	Full	Non-RCRA	9/10/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.24CY	18.36	N/A	070179625	US Ecology Beatty
818	top load	9/10/2010	9/10/2010	Full	Non-RCRA	9/10/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.48CY	18.72	N/A	070179625	US Ecology Beatty

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2079	top load	9/10/2010	9/10/2010	Full	Non-RCRA	9/13/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.41CY	18.61	N/A	070179625	US Ecology Beatty
805	top load	9/10/2010	9/10/2010	Full	Non-RCRA	9/10/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.29CY	18.44	N/A	070179625	US Ecology Beatty
842	top load	9/10/2010	9/10/2010	Full	Non-RCRA	9/10/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12CY	18.00	N/A	070179625	US Ecology Beatty
845	top load	9/10/2010	9/10/2010	Full	Non-RCRA	9/10/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.26CY	18.39	N/A	070179625	US Ecology Beatty
869W	top load	9/9/2010	9/9/2010	Full	Non-RCRA	9/9/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.78CY	17.67	N/A	070179625	US Ecology Beatty
827	top load	9/9/2010	9/9/2010	Full	Non-RCRA	9/9/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.77CY	17.65	N/A	070179625	US Ecology Beatty
853	top load	9/9/2010	9/9/2010	Full	Non-RCRA	9/9/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.21CY	18.31	N/A	070179625	US Ecology Beatty
852	top load	9/9/2010	9/9/2010	Full	Non-RCRA	9/9/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.28CY	18.42	N/A	070179625	US Ecology Beatty
822	top load	9/9/2010	9/9/2010	Full	Non-RCRA	9/9/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.71CY	17.57	N/A	070179625	US Ecology Beatty
806	top load	9/9/2010	9/9/2010	Full	Non-RCRA	9/9/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.11CY	18.17	N/A	070179625	US Ecology Beatty
862W	top load	9/10/2010	9/10/2010	Full	Non-RCRA	9/14/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.03CY	18.05	N/A	070179625	US Ecology Beatty
820	top load	9/14/2010	9/14/2010	Full	Non-RCRA	9/14/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.4CY	18.60	N/A	070179625	US Ecology Beatty
850	top load	9/14/2010	9/14/2010	Full	Non-RCRA	9/14/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.22CY	18.33	N/A	070179625	US Ecology Beatty
837	top load	9/14/2010	9/14/2010	Full	Non-RCRA	9/14/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.37CY	18.55	N/A	070179625	US Ecology Beatty
860	top load	9/7/2010	9/7/2010	Full	Non-RCRA	9/7/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.17CY	18.25	N/A	070179625	US Ecology Beatty
865W	top load	9/9/2010	9/9/2010	Full	Non-RCRA	9/9/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.67CY	17.50	N/A	070179625	US Ecology Beatty
844	top load	9/9/2010	9/9/2010	Full	Non-RCRA	9/9/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.48CY	17.22	N/A	070179625	US Ecology Beatty
848	top load	9/9/2010	9/9/2010	Full	Non-RCRA	9/10/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.79CY	17.69	N/A	070179625	US Ecology Beatty
812	top load	9/13/2010	9/13/2010	Full	Non-RCRA	9/13/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.6CY	18.90	N/A	070179625	US Ecology Beatty
823	top load	9/13/2010	9/13/2010	Full	Non-RCRA	9/14/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.15CY	18.23	N/A	070179625	US Ecology Beatty
810	top load	9/10/2010	9/10/2010	Full	Non-RCRA	9/14/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.59CY	18.89	N/A	070179625	US Ecology Beatty
868W	top load	9/13/2010	9/13/2010	Full	Non-RCRA	9/14/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.25CY	18.38	N/A	070179625	US Ecology Beatty
2028	top load	9/14/2010	9/14/2010	Full	Non-RCRA	9/14/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.08CY	18.12	N/A	070179625	US Ecology Beatty
856	top load	9/13/2010	9/13/2010	Full	Non-RCRA	9/13/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.75CY	19.13	N/A	070179625	US Ecology Beatty
866W	top load	9/13/2010	9/13/2010	Full	Non-RCRA	9/13/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.75CY	19.13	N/A	070179625	US Ecology Beatty

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857	top load	9/13/2010	9/13/2010	Full	Non-RCRA	9/13/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.71CY	19.07	N/A	070179625	US Ecology Beatty
841	top load	9/13/2010	9/13/2010	Full	Non-RCRA	9/13/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.81CY	17.72	N/A	070179625	US Ecology Beatty
829	top load	9/13/2010	9/13/2010	Full	Non-RCRA	9/13/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.31CY	18.46	N/A	070179625	US Ecology Beatty
859	top load	9/13/2010	9/13/2010	Full	Non-RCRA	9/13/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.98CY	17.97	N/A	070179625	US Ecology Beatty
828	top load	9/14/2010	9/14/2010	Full	Non-RCRA	9/14/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12CY	18.00	N/A	070179625	US Ecology Beatty
832	top load	9/10/2010	9/10/2010	Full	Non-RCRA	9/10/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.02CY	18.03	N/A	070179625	US Ecology Beatty
853	top load	9/15/2010	9/15/2010	Full	Non-RCRA	9/15/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.61CY	18.92	N/A	070179625	US Ecology Beatty
840	top load	9/14/2010	9/14/2010	Full	Non-RCRA	9/15/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.37CY	18.56	N/A	070179625	US Ecology Beatty
861W	top load	9/14/2010	9/14/2010	Full	Non-RCRA	9/15/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	11.93CY	17.89	N/A	070179625	US Ecology Beatty
870	top load	9/14/2010	9/14/2010	Full	Non-RCRA	9/15/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.45CY	18.67	N/A	070179625	US Ecology Beatty
2079	top load	9/15/2010	9/15/2010	Full	Non-RCRA	9/15/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.92CY	19.38	N/A	070179625	US Ecology Beatty
827	top load	9/15/2010	9/15/2010	Full	Non-RCRA	9/15/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.36CY	18.54	N/A	070179625	US Ecology Beatty
809	top load	9/14/2010	9/14/2010	Full	Non-RCRA	9/15/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.42CY	18.63	N/A	070179625	US Ecology Beatty
818	top load	9/15/2010	9/15/2010	Full	Non-RCRA	9/15/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.93CY	19.39	N/A	070179625	US Ecology Beatty
805	top load	9/15/2010	9/15/2010	Full	Non-RCRA	9/15/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.52CY	18.78	N/A	070179625	US Ecology Beatty
826	top load	9/14/2010	9/14/2010	Full	Non-RCRA	9/15/2010	Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.11CY	18.17	N/A	070179625	US Ecology Beatty
848	top load	6/28/2010	6/28/2010	Full	Non-RCRA	8/17/2010	Lower Area A and Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	10.57CY	15.85	N/A	070179625	US Ecology Beatty
844	top load	7/6/2010	7/6/2010	Full	Non-RCRA	8/17/2010	Lower Area A and Areas C, D, and E working pile	Soil, debris, PPE, and plastic sheeting.	12.13CY	18.20	N/A	070179625	US Ecology Beatty
829	top load	9/20/2010	9/20/2010	Full	Non-RCRA	9/28/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.32CY	18.48	N/A	070179625	US Ecology Beatty
861W	top load	9/23/2010	9/23/2010	Full	Non-RCRA	9/29/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	11.73CY	17.60	N/A	070179625	US Ecology Beatty
818	top load	9/29/2010	9/29/2010	Full	Non-RCRA	9/29/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.22CY	18.33	N/A	070179625	US Ecology Beatty
809	top load	9/28/2010	9/28/2010	Full	Non-RCRA	9/28/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	11.21CY	16.82	N/A	070179625	US Ecology Beatty
2079	top load	9/23/2010	9/23/2010	Full	Non-RCRA	9/28/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	13.01CY	19.52	N/A	070179625	US Ecology Beatty

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840	top load	9/23/2010	9/23/2010	Full	Non-RCRA	9/27/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.89CY	19.34	N/A	070179625	US Ecology Beatty
822	top load	9/22/2010	9/22/2010	Full	Non-RCRA	9/28/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.24CY	18.36	N/A	070179625	US Ecology Beatty
848	top load	9/22/2010	9/22/2010	Full	Non-RCRA	9/28/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.65CY	18.97	N/A	070179625	US Ecology Beatty
810	top load	9/23/2010	9/23/2010	Full	Non-RCRA	9/28/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.34CY	18.51	N/A	070179625	US Ecology Beatty
817	top load	9/23/2010	9/23/2010	Full	Non-RCRA	9/29/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.66CY	18.99	N/A	070179625	US Ecology Beatty
860	top load	9/16/2010	9/16/2010	Full	Non-RCRA	9/27/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	11.79CY	17.69	N/A	070179625	US Ecology Beatty
856	top load	9/22/2010	9/22/2010	Full	Non-RCRA	9/28/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.71CY	19.07	N/A	070179625	US Ecology Beatty
837	top load	9/28/2010	9/28/2010	Full	Non-RCRA	9/30/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.85CY	19.27	N/A	070179625	US Ecology Beatty
826	top load	9/30/2010	9/30/2010	Full	Non-RCRA	9/30/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	11.46CY	17.19	N/A	070179625	US Ecology Beatty
859	top load	9/30/2010	9/30/2010	Full	Non-RCRA	9/30/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.15CY	18.23	N/A	070179625	US Ecology Beatty
828	top load	9/24/2010	9/24/2010	Full	Non-RCRA	9/30/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.52CY	18.78	N/A	070179625	US Ecology Beatty
857	top load	9/30/2010	9/30/2010	Full	Non-RCRA	9/30/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	13.16CY	17.94	N/A	070179625	US Ecology Beatty
2028	top load	9/23/2010	9/23/2010	Full	Non-RCRA	9/29/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.77CY	19.16	N/A	070179625	US Ecology Beatty
844	top load	9/27/2010	9/27/2010	Full	Non-RCRA	9/29/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.17CY	18.26	N/A	070179625	US Ecology Beatty
810	top load	10/4/2010	10/4/2010	Full	Non-RCRA	10/4/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	10.84CY	16.26	N/A	070179625	US Ecology Beatty
865W	top load	9/22/2010	9/22/2010	Full	Non-RCRA	9/28/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.25CY	18.38	N/A	070179625	US Ecology Beatty
868W	top load	9/22/2010	9/22/2010	Full	Non-RCRA	9/28/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.18CY	18.27	N/A	070179625	US Ecology Beatty
818	top load	10/1/2010	10/1/2010	Full	Non-RCRA	10/1/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.8CY	19.20	N/A	070179625	US Ecology Beatty
840	top load	10/4/2010	10/4/2010	Full	Non-RCRA	10/4/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.05CY	18.07	N/A	070179625	US Ecology Beatty
841	top load	9/24/2010	9/24/2010	Full	Non-RCRA	10/1/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.15CY	18.23	N/A	070179625	US Ecology Beatty
822	top load	10/4/2010	10/4/2010	Full	Non-RCRA	10/4/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.9CY	19.35	N/A	070179625	US Ecology Beatty
848	top load	10/4/2010	10/4/2010	Full	Non-RCRA	10/4/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	11.92CY	17.88	N/A	070179625	US Ecology Beatty
845	top load	9/30/2010	9/30/2010	Full	Non-RCRA	10/1/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	11.62CY	17.43	Composite 845	070179625	US Ecology Beatty
866W	top load	9/28/2010	9/28/2010	Full	Non-RCRA	10/1/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.59CY	18.88	Composite 866W	070179625	US Ecology Beatty
827	top load	9/30/2010	9/30/2010	Full	Non-RCRA	10/1/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	11.76CY	17.64	Composite 827	070179625	US Ecology Beatty

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829	top load	10/1/2010	10/1/2010	Full	Non-RCRA	10/1/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.29CY	18.43	Composite 829	070179625	US Ecology Beatty
861W	top load	10/1/2010	10/1/2010	Full	Non-RCRA	10/1/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.59CY	18.89	Composite 861W	070179625	US Ecology Beatty
832	top load	9/24/2010	9/24/2010	Full	Non-RCRA	9/29/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.27CY	18.41	N/A	070179625	US Ecology Beatty
870	top load	9/29/2010	9/29/2010	Full	Non-RCRA	9/29/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	11.73CY	17.59	N/A	070179625	US Ecology Beatty
2028	top load	10/6/2010	10/6/2010	Full	Non-RCRA	10/6/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.73CY	19.09	Composite 2028	070179625	US Ecology Beatty
868W	top load	10/6/2010	10/6/2010	Full	Non-RCRA	10/6/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	13.29CY	19.94	Composite 868W	070179625	US Ecology Beatty
818	top load	10/6/2010	10/6/2010	Full	Non-RCRA	10/6/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	13.1CY	19.65	Composite 818	070179625	US Ecology Beatty
862W	top load	9/24/2010	9/24/2010	Full	Non-RCRA	9/29/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.17CY	18.26	N/A	070179625	US Ecology Beatty
806	top load	9/29/2010	9/29/2010	Full	Non-RCRA	9/30/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.67CY	19.01	N/A	070179625	US Ecology Beatty
812	top load	9/24/2010	9/24/2010	Full	Non-RCRA	9/30/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.37CY	18.55	N/A	070179625	US Ecology Beatty
805	top load	9/24/2010	9/24/2010	Full	Non-RCRA	9/30/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.68CY	19.02	N/A	070179625	US Ecology Beatty
809	top load	10/1/2010	10/1/2010	Full	Non-RCRA	10/1/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.68CY	19.02	N/A	070179625	US Ecology Beatty
841	top load	10/7/2010	10/7/2010	Full	Non-RCRA	10/7/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.11CY	18.17	Composite 841	070179625	US Ecology Beatty
842	top load	9/23/2010	9/23/2010	Full	Non-RCRA	9/28/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.14CY	18.21	N/A	070179625	US Ecology Beatty
869W	top load	9/23/2010	9/23/2010	Full	Non-RCRA	9/29/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.65CY	18.97	N/A	070179625	US Ecology Beatty
852	top load	9/27/2010	9/27/2010	Full	Non-RCRA	9/29/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	11.62CY	17.43	N/A	070179625	US Ecology Beatty
2079	top load	10/1/2010	10/1/2010	Full	Non-RCRA	10/4/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.38CY	18.57	N/A	070179625	US Ecology Beatty
828	top load	10/11/2010	10/11/2010	Full	Non-RCRA	10/13/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.03CY	18.04	Composite 828	070179625	US Ecology Beatty
806	top load	10/13/2010	10/13/2010	Full	Non-RCRA	10/13/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.84CY	19.26	Composite 806	070179625	US Ecology Beatty
856	top load	10/11/2010	10/11/2010	Full	Non-RCRA	10/12/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.85CY	19.27	Composite 856	070179625	US Ecology Beatty
822	top load	10/7/2010	10/7/2010	Full	Non-RCRA	10/11/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.81CY	19.21	Composite 822	070179625	US Ecology Beatty
840	top load	10/7/2010	10/7/2010	Full	Non-RCRA	10/12/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.73CY	19.10	Composite 840	070179625	US Ecology Beatty
812	top load	10/13/2010	10/13/2010	Full	Non-RCRA	10/13/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	12.25CY	18.37	Composite 812	070179625	US Ecology Beatty
859	top load	10/13/2010	10/13/2010	Partial	Non-RCRA	10/14/2010	North Area C	Soil, debris, PPE, and plastic sheeting.	10.19CY	15.28	Composite 859	070179625	US Ecology Beatty
866W	top load	9/20/2010	9/20/2010	Full	Non-RCRA	9/23/2010	North Area C working pile	Soil, debris, PPE, and plastic sheeting.	12.83CY	19.25	N/A	070179625	US Ecology Beatty

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837	top load	9/22/2010	9/22/2010	Full	Non-RCRA	9/23/2010	North Area C working pile	Soil, debris, PPE, and plastic sheeting.	12.73CY	19.09	N/A	070179625	US Ecology Beatty
806	top load	9/21/2010	9/21/2010	Full	Non-RCRA	9/24/2010	North Area C working pile	Soil, debris, PPE, and plastic sheeting.	12.79CY	19.19	N/A	070179625	US Ecology Beatty
818	top load	9/24/2010	9/24/2010	Full	Non-RCRA	9/24/2010	North Area C working pile	Soil, debris, PPE, and plastic sheeting.	12.77CY	19.16	N/A	070179625	US Ecology Beatty
870	top load	9/23/2010	9/23/2010	Full	Non-RCRA	9/24/2010	North Area C working pile	Soil, debris, PPE, and plastic sheeting.	12.25CY	18.37	N/A	070179625	US Ecology Beatty
827	top load	9/21/2010	9/21/2010	Full	Non-RCRA	9/27/2010	North Area C working pile	Soil, debris, PPE, and plastic sheeting.	12.93CY	19.40	N/A	070179625	US Ecology Beatty
857	top load	9/20/2010	9/20/2010	Full	Non-RCRA	9/27/2010	North Area C working pile	Soil, debris, PPE, and plastic sheeting.	12.09CY	18.14	N/A	070179625	US Ecology Beatty
845	top load	9/23/2010	9/23/2010	Full	Non-RCRA	9/24/2010	North Area C working pile	Soil, debris, PPE, and plastic sheeting.	12.46CY	18.69	N/A	070179625	US Ecology Beatty
859	top load	9/22/2010	9/22/2010	Full	Non-RCRA	9/27/2010	North Area C working pile	Soil, debris, PPE, and plastic sheeting.	12.41CY	18.62	N/A	070179625	US Ecology Beatty
826	top load	9/21/2010	9/21/2010	Full	Non-RCRA	9/27/2010	North Area C working pile	Soil, debris, PPE, and plastic sheeting.	12.76CY	19.14	N/A	070179625	US Ecology Beatty
810	top load	5/24/2010	5/24/2010	Full	Non-RCRA	5/24/2010	Area C/D - Cell J5	Soil/rock, debris, PPE, and plastic sheeting.	12.17CY	18.26	N/A	CA581716	Waste Management Kettleman
826	top load	5/21/2010	5/21/2010	Full	Non-RCRA	5/24/2010	Area C/D - Cell J5	Soil/rock, debris, PPE, and plastic sheeting.	12.41CY	18.62	N/A	CA581716	Waste Management Kettleman
805	top load	5/24/2010	5/24/2010	Full	Non-RCRA	5/24/2010	Area C/D - Cell J5	Soil/rock, debris, PPE, and plastic sheeting.	11.85CY	17.77	N/A	CA581716	Waste Management Kettleman
806	top load	5/19/2010	5/19/2010	Full	Non-RCRA	5/21/2010	Area C/D - Cell J5	Soil/rock, debris, PPE, and plastic sheeting.	12.51CY	18.76	Area C J5/806	CA581716	Waste Management Kettleman
859	top load	5/20/2010	5/20/2010	Full	Non-RCRA	5/24/2010	Area C/D - Cell J5	Soil/rock, debris, PPE, and plastic sheeting.	12.31CY	18.47	N/A	CA581716	Waste Management Kettleman
850	top load	5/26/2010	5/26/2010	Full	Non-RCRA	5/26/2010	Area C/D - Cells J4, J5, and J6	Soil/rock, debris, PPE, and plastic sheeting.	12.23CY	18.35	N/A	CA581716	Waste Management Kettleman
862W	top load	5/26/2010	5/26/2010	Full	Non-RCRA	5/26/2010	Area C/D - Cells J4, J5, and J6	Soil/rock, debris, PPE, and plastic sheeting.	12.26CY	18.39	N/A	CA581716	Waste Management Kettleman
818	top load	5/26/2010	5/26/2010	Full	Non-RCRA	5/26/2010	Area C/D - Cells J4, J5, and J6	Soil/rock, debris, PPE, and plastic sheeting.	11.94CY	17.91	N/A	CA581716	Waste Management Kettleman
870	top load	5/26/2010	5/26/2010	Full	Non-RCRA	5/26/2010	Area C/D - Cells J4, J5, and J6	Soil/rock, debris, PPE, and plastic sheeting.	13.03CY	19.55	N/A	CA581716	Waste Management Kettleman
812	top load	5/25/2010	5/25/2010	Full	Non-RCRA	5/25/2010	Area C/D - Cells J4, J5, K4, and K5	Soil/rock, debris, PPE, and plastic sheeting.	12.5CY	18.75	N/A	CA581716	Waste Management Kettleman
837	top load	5/21/2010	5/21/2010	Full	Non-RCRA	5/25/2010	Area C/D - Cells J4, J5, K4, and K5	Soil/rock, debris, PPE, and plastic sheeting.	12.36CY	18.54	N/A	CA581716	Waste Management Kettleman

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844	top load	5/21/2010	5/21/2010	Full	Non-RCRA	5/25/2010	Area C/D - Cells J4, J5, K4, and K5	Soil/rock, debris, PPE, and plastic sheeting.	12.71CY	19.06	N/A	CA581716	Waste Management Kettleman
869W	top load	5/19/2010	5/19/2010	Full	Non-RCRA	5/25/2010	Area C/D - Cells J4, J5, K4, and K5	Soil/rock, debris, PPE, and plastic sheeting.	12.29CY	18.44	N/A	CA581716	Waste Management Kettleman
832	top load	5/27/2010	5/27/2010	Full	Non-RCRA	5/27/2010	Area D - Cell J6	Soil/rock, debris, PPE, and plastic sheeting.	12.54CY	18.81	N/A	CA581716	Waste Management Kettleman
856	top load	5/27/2010	5/27/2010	Full	Non-RCRA	5/27/2010	Area D - Cell J6	Soil/rock, debris, PPE, and plastic sheeting.	12.19CY	18.29	N/A	CA581716	Waste Management Kettleman
860	top load	5/27/2010	5/27/2010	Full	Non-RCRA	5/27/2010	Area D - Cell J6	Soil/rock, debris, PPE, and plastic sheeting.	11.1CY	16.65	N/A	CA581716	Waste Management Kettleman
809	top load	6/3/2010	6/3/2010	Full	Non-RCRA	6/4/2010	Area D - Cell L5 and L6	Soil/rock, debris, PPE, and plastic sheeting.	12.51CY	18.76	N/A	CA581716	Waste Management Kettleman
822	top load	6/3/2010	6/3/2010	Full	Non-RCRA	6/4/2010	Area D - Cell L5 and L6	Soil/rock, debris, PPE, and plastic sheeting.	12.13CY	18.19	N/A	CA581716	Waste Management Kettleman
853	top load	6/3/2010	6/3/2010	Full	Non-RCRA	6/4/2010	Area D - Cell L5 and L6	Soil/rock, debris, PPE, and plastic sheeting.	12.09CY	18.14	N/A	CA581716	Waste Management Kettleman
2028	top load	6/3/2010	6/3/2010	Full	Non-RCRA	6/4/2010	Area D - Cell L5 and L6	Soil/rock, debris, PPE, and plastic sheeting.	11.83CY	17.74	N/A	CA581716	Waste Management Kettleman
865W	top load	6/3/2010	6/3/2010	Full	Non-RCRA	6/4/2010	Area D - Cell L5 and L6	Soil/rock, debris, PPE, and plastic sheeting.	12.45CY	18.68	N/A	CA581716	Waste Management Kettleman
827	top load	6/1/2010	6/1/2010	Full	Non-RCRA	6/1/2010	Area D - Cells J5 and J6	Soil/rock, debris, PPE, and plastic sheeting.	12.54CY	18.81	N/A	CA581716	Waste Management Kettleman
848	top load	6/1/2010	6/1/2010	Full	Non-RCRA	6/1/2010	Area D - Cells J5 and J6	Soil/rock, debris, PPE, and plastic sheeting.	12.47CY	18.70	N/A	CA581716	Waste Management Kettleman
866W	top load	6/1/2010	6/1/2010	Full	Non-RCRA	6/1/2010	Area D - Cells J5 and J6	Soil/rock, debris, PPE, and plastic sheeting.	11.61CY	17.41	N/A	CA581716	Waste Management Kettleman
829	top load	6/1/2010	6/1/2010	Full	Non-RCRA	6/1/2010	Area D - Cells J5 and J6	Soil/rock, debris, PPE, and plastic sheeting.	12.08CY	18.12	N/A	CA581716	Waste Management Kettleman
812	top load	6/4/2010	6/4/2010	Full	Non-RCRA	6/7/2010	Area D - Cells J5, J6, K5, and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.87CY	17.81	N/A	CA581716	Waste Management Kettleman
818	top load	6/4/2010	6/4/2010	Full	Non-RCRA	6/7/2010	Area D - Cells J5, J6, K5, and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.49CY	18.73	N/A	CA581716	Waste Management Kettleman
837	top load	6/4/2010	6/4/2010	Full	Non-RCRA	6/7/2010	Area D - Cells J5, J6, K5, and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.01CY	18.01	N/A	CA581716	Waste Management Kettleman

BIN #	BIN TYPE	DATE BIN ARRIVED ONSITE	DATE BIN INSPECTED	STATUS (FULL, PARTIAL, EMPTY)	LABELED WASTE CATEGORY	ACCUMULATION START DATE	ORIGIN OF WASTE	WASTE TYPE	WASTE VOLUME	WASTE TONNAGE	SAMPLE #S ASSOCIATED WITH WASTE	PROFILE NO.	DISPOSAL FACILITY
840	top load	6/4/2010	6/4/2010	Full	Non-RCRA	6/7/2010	Area D - Cells J5, J6, K5, and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.44CY	18.66	N/A	CA581716	Waste Management Kettleman
850	top load	6/4/2010	6/4/2010	Full	Non-RCRA	6/7/2010	Area D - Cells J5, J6, K5, and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.69CY	17.54	N/A	CA581716	Waste Management Kettleman
870	top load	6/4/2010	6/4/2010	Full	Non-RCRA	6/7/2010	Area D - Cells J5, J6, K5, and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.83CY	17.75	N/A	CA581716	Waste Management Kettleman
820	top load	6/7/2010	6/7/2010	Full	Non-RCRA	6/8/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	13.09CY	19.63	N/A	CA581716	Waste Management Kettleman
828	top load	6/7/2010	6/7/2010	Full	Non-RCRA	6/8/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.91CY	17.87	N/A	CA581716	Waste Management Kettleman
832	top load	6/7/2010	6/7/2010	Full	Non-RCRA	6/8/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.81CY	17.72	N/A	CA581716	Waste Management Kettleman
852	top load	6/7/2010	6/7/2010	Full	Non-RCRA	6/8/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.29CY	18.44	N/A	CA581716	Waste Management Kettleman
856	top load	6/7/2010	6/7/2010	Full	Non-RCRA	6/8/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.82CY	17.73	N/A	CA581716	Waste Management Kettleman
2079	top load	6/4/2010	6/4/2010	Empty	Non-RCRA	6/9/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.78CY	17.67	N/A	CA581716	Waste Management Kettleman
861W	top load	6/7/2010	6/7/2010	Empty	Non-RCRA	6/9/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.49CY	17.24	N/A	CA581716	Waste Management Kettleman
862W	top load	6/7/2010	6/7/2010	Full	Non-RCRA	6/8/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.69CY	17.53	N/A	CA581716	Waste Management Kettleman
823	top load	6/7/2010	6/7/2010	Full	Non-RCRA	6/9/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.19CY	18.28	N/A	CA581716	Waste Management Kettleman
826	top load	6/7/2010	6/7/2010	Full	Non-RCRA	6/9/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.93CY	17.89	N/A	CA581716	Waste Management Kettleman
827	top load	6/7/2010	6/7/2010	Full	Non-RCRA	6/9/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.85CY	17.78	N/A	CA581716	Waste Management Kettleman
841	top load	6/9/2010	6/9/2010	Full	Non-RCRA	6/10/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.49CY	17.23	N/A	CA581716	Waste Management Kettleman
844	top load	6/9/2010	6/9/2010	Full	Non-RCRA	6/10/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.51CY	17.27	N/A	CA581716	Waste Management Kettleman
848	top load	6/9/2010	6/9/2010	Full	Non-RCRA	6/9/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.81CY	17.72	N/A	CA581716	Waste Management Kettleman

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869W	top load	6/9/2010	6/9/2010	Full	Non-RCRA	6/10/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.13CY	18.20	N/A	CA581716	Waste Management Kettleman
810	top load	6/9/2010	6/9/2010	Full	Non-RCRA	6/10/2010	Area D - Cells K5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.01CY	18.01	N/A	CA581716	Waste Management Kettleman
820	top load	6/3/2010	6/3/2010	Full	Non-RCRA	6/3/2010	Area D - Cells K5 and L5	Soil/rock, debris, PPE, and plastic sheeting.	12.31CY	18.46	N/A	CA581716	Waste Management Kettleman
852	top load	6/3/2010	6/3/2010	Full	Non-RCRA	6/3/2010	Area D - Cells K5 and L5	Soil/rock, debris, PPE, and plastic sheeting.	11.99CY	17.99	N/A	CA581716	Waste Management Kettleman
841	top load	6/3/2010	6/3/2010	Full	Non-RCRA	6/3/2010	Area D - Cells K5 and L5	Soil/rock, debris, PPE, and plastic sheeting.	12.25CY	18.37	N/A	CA581716	Waste Management Kettleman
845	top load	6/3/2010	6/3/2010	Full	Non-RCRA	6/3/2010	Area D - Cells K5 and L5	Soil/rock, debris, PPE, and plastic sheeting.	12.58CY	18.87	N/A	CA581716	Waste Management Kettleman
868W	top load	6/3/2010	6/3/2010	Full	Non-RCRA	6/3/2010	Area D - Cells K5 and L5	Soil/rock, debris, PPE, and plastic sheeting.	12.36CY	18.54	N/A	CA581716	Waste Management Kettleman
809	top load	6/11/2010	6/11/2010	Full	Non-RCRA	6/11/2010	Area D - Cells L5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.09CY	18.14	N/A	CA581716	Waste Management Kettleman
845	top load	6/9/2010	6/9/2010	Full	Non-RCRA	6/11/2010	Area D - Cells L5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.81CY	17.72	N/A	CA581716	Waste Management Kettleman
859	top load	6/9/2010	6/9/2010	Full	Non-RCRA	6/11/2010	Area D - Cells L5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.35CY	18.52	N/A	CA581716	Waste Management Kettleman
866W	top load	6/9/2010	6/9/2010	Full	Non-RCRA	6/11/2010	Area D - Cells L5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.25CY	18.38	N/A	CA581716	Waste Management Kettleman
842	top load	6/9/2010	6/9/2010	Full	Non-RCRA	6/10/2010	Area D - Cells L5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.2CY	18.30	N/A	CA581716	Waste Management Kettleman
860	top load	6/9/2010	6/9/2010	Full	Non-RCRA	6/10/2010	Area D - Cells L5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.01CY	18.01	N/A	CA581716	Waste Management Kettleman
2028	top load	6/11/2010	6/11/2010	Full	Non-RCRA	6/11/2010	Area D - Cells L5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	11.42CY	17.13	N/A	CA581716	Waste Management Kettleman
868W	top load	6/11/2010	6/11/2010	Full	Non-RCRA	6/11/2010	Area D - Cells L5 and K6	Soil/rock, debris, PPE, and plastic sheeting.	12.38CY	18.57	N/A	CA581716	Waste Management Kettleman
812	top load	6/11/2010	6/11/2010	Full	Non-RCRA	6/14/2010	Area D - Cells L5 and M5	Soil/rock, debris, PPE, and plastic sheeting.	12.29CY	18.44	N/A	CA581716	Waste Management Kettleman
822	top load	6/11/2010	6/11/2010	Full	Non-RCRA	6/14/2010	Area D - Cells L5 and M5	Soil/rock, debris, PPE, and plastic sheeting.	11.77CY	17.66	N/A	CA581716	Waste Management Kettleman

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829	top load	6/11/2010	6/11/2010	Full	Non-RCRA	6/14/2010	Area D - Cells L5 and M5	Soil/rock, debris, PPE, and plastic sheeting.	11.89CY	17.83	N/A	CA581716	Waste Management Kettleman
837	top load	6/11/2010	6/11/2010	Full	Non-RCRA	6/14/2010	Area D - Cells L5 and M5	Soil/rock, debris, PPE, and plastic sheeting.	12.13CY	18.20	N/A	CA581716	Waste Management Kettleman
853	top load	6/11/2010	6/11/2010	Full	Non-RCRA	6/14/2010	Area D - Cells L5 and M5	Soil/rock, debris, PPE, and plastic sheeting.	12.25CY	18.37	N/A	CA581716	Waste Management Kettleman
865W	top load	6/11/2010	6/11/2010	Full	Non-RCRA	6/14/2010	Area D - Cells L5 and M5	Soil/rock, debris, PPE, and plastic sheeting.	12.43CY	18.65	N/A	CA581716	Waste Management Kettleman
817	top load	6/2/2010	6/2/2010	Full	Non-RCRA	6/2/2010	Areas B and C - Cell K5	Soil/rock, debris, PPE, and plastic sheeting.	12.53CY	18.79	N/A	CA581716	Waste Management Kettleman
828	top load	6/2/2010	6/2/2010	Full	Non-RCRA	6/2/2010	Areas B and C - Cell K5	Soil/rock, debris, PPE, and plastic sheeting.	12.11CY	18.16	N/A	CA581716	Waste Management Kettleman
861W	top load	6/2/2010	6/2/2010	Full	Non-RCRA	6/2/2010	Areas B and C - Cell K5	Soil/rock, debris, PPE, and plastic sheeting.	11.51CY	17.27	N/A	CA581716	Waste Management Kettleman
840	top load	5/27/2010	5/27/2010	Full	Non-RCRA	5/27/2010	Areas B and C - Cells K4 and K5	Soil/rock, debris, PPE, and plastic sheeting.	12.84CY	19.26	N/A	CA581716	Waste Management Kettleman
823	top load	5/27/2010	5/27/2010	Full	Non-RCRA	5/27/2010	Areas B and C - Cells K4 and K5	Soil/rock, debris, PPE, and plastic sheeting.	12.27CY	18.40	N/A	CA581716	Waste Management Kettleman
842	top load	5/27/2010	5/27/2010	Full	Non-RCRA	5/27/2010	Areas B and C - Cells K4 and K5	Soil/rock, debris, PPE, and plastic sheeting.	11.95CY	17.92	N/A	CA581716	Waste Management Kettleman
852	top load	6/14/2010	6/14/2010	Full	Non-RCRA	6/16/2010	Areas C and D - Cell M5	Soil/rock, debris, PPE, and plastic sheeting.	12.14CY	18.21	N/A	CA581716	Waste Management Kettleman
856	top load	6/14/2010	6/14/2010	Full	Non-RCRA	6/16/2010	Areas C and D - Cell M5	Soil/rock, debris, PPE, and plastic sheeting.	12.01CY	18.01	N/A	CA581716	Waste Management Kettleman
862W	top load	6/14/2010	6/14/2010	Full	Non-RCRA	6/15/2010	Areas C and D - Cell M5	Soil/rock, debris, PPE, and plastic sheeting.	13.54CY	20.31	N/A	CA581716	Waste Management Kettleman
828	top load	6/14/2010	6/14/2010	Full	Non-RCRA	6/16/2010	Areas C and D - Cell M5	Soil/rock, debris, PPE, and plastic sheeting.	11.87CY	17.81	N/A	CA581716	Waste Management Kettleman
818	top load	6/11/2010	6/11/2010	Full	Non-RCRA	6/15/2010	Areas C and D - Cells K6 and L6	Soil/rock, debris, PPE, and plastic sheeting.	10.67CY	16.01	N/A	CA581716	Waste Management Kettleman
806	top load	6/11/2010	6/11/2010	Full	Non-RCRA	6/15/2010	Areas C and D - Cells K6, K7, and L6	Soil/rock, debris, PPE, and plastic sheeting.	11.69CY	17.53	N/A	CA581716	Waste Management Kettleman
861W	top load	6/14/2010	6/14/2010	Full	Non-RCRA	6/15/2010	Areas C and D - Cells L5 and M5	Soil/rock, debris, PPE, and plastic sheeting.	12.08CY	18.12	N/A	CA581716	Waste Management Kettleman

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840	top load	6/14/2010	6/14/2010	Full	Non-RCRA	6/16/2010	Areas C and D - Cells M6 and L7	Soil/rock, debris, PPE, and plastic sheeting.	11.92CY	17.88	N/A	CA581716	Waste Management Kettleman
820	top load	6/14/2010	6/14/2010	Full	Non-RCRA	6/16/2010	Areas C and D - Cells M6 and L7	Soil/rock, debris, PPE, and plastic sheeting.	12.07CY	18.11	N/A	CA581716	Waste Management Kettleman
805	top load	6/11/2010	6/11/2010	Full	Non-RCRA	6/15/2010	Areas C and D - Cells M6 and M7	Soil/rock, debris, PPE, and plastic sheeting.	10.11CY	15.16	N/A	CA581716	Waste Management Kettleman
832	top load	6/14/2010	6/14/2010	Full	Non-RCRA	6/15/2010	Areas C and D - Cells M6 and M7	Soil/rock, debris, PPE, and plastic sheeting.	11.75CY	17.62	N/A	CA581716	Waste Management Kettleman
845	top load	5/14/2010	5/14/2010	Full	TSCA PCB Waste	5/18/2010	Area B/C - Cell H4/H5/I4/I5	Soil/rock, debris, PPE, and plastic sheeting.	12.75CY	19.12	N/A	CA582242	Waste Management Kettleman
848	top load	5/14/2010	5/14/2010	Full	TSCA PCB Waste	5/18/2010	Area B/C - Cell H4/H5/I5	Soil/rock, debris, PPE, and plastic sheeting.	12.24CY	18.36	N/A	CA582242	Waste Management Kettleman
827	top load	5/17/2010	5/17/2010	Full	TSCA PCB Waste	5/19/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	12.61CY	18.91	N/A	CA582242	Waste Management Kettleman
829	top load	5/17/2010	5/17/2010	Full	TSCA PCB Waste	5/19/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	11.14CY	16.71	N/A	CA582242	Waste Management Kettleman
866W	top load	5/17/2010	5/17/2010	Full	TSCA PCB Waste	5/19/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	12.03CY	18.05	N/A	CA582242	Waste Management Kettleman
817	top load	5/18/2010	5/18/2010	Full	TSCA PCB Waste	5/20/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	11.91CY	17.87	N/A	CA582242	Waste Management Kettleman
820	top load	5/14/2010	5/14/2010	Full	TSCA PCB Waste	5/19/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	11.11CY	16.66	N/A	CA582242	Waste Management Kettleman
822	top load	5/20/2010	5/20/2010	Full	TSCA PCB Waste	5/21/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	12.05CY	18.08	N/A	CA582242	Waste Management Kettleman
828	top load	5/20/2010	5/20/2010	Full	TSCA PCB Waste	5/21/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	12.21CY	18.31	N/A	CA582242	Waste Management Kettleman
841	top load	5/17/2010	5/17/2010	Full	TSCA PCB Waste	5/20/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	12.53CY	18.79	N/A	CA582242	Waste Management Kettleman
852	top load	5/18/2010	5/18/2010	Full	TSCA PCB Waste	5/19/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	12.43CY	18.65	N/A	CA582242	Waste Management Kettleman
853	top load	5/20/2010	5/20/2010	Full	TSCA PCB Waste	5/21/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	12.13CY	18.19	N/A	CA582242	Waste Management Kettleman
2028	top load	5/18/2010	5/18/2010	Full	TSCA PCB Waste	5/20/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	12.73CY	19.09	N/A	CA582242	Waste Management Kettleman

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861W	top load	5/18/2010	5/18/2010	Full	TSCA PCB Waste	5/20/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	12.56CY	18.84	N/A	CA582242	Waste Management Kettleman
865W	top load	5/19/2010	5/19/2010	Full	TSCA PCB Waste	5/21/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	11.87CY	17.83	N/A	CA582242	Waste Management Kettleman
868W	top load	5/19/2010	5/19/2010	Full	TSCA PCB Waste	5/20/2010	Area C - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	12.63CY	18.94	N/A	CA582242	Waste Management Kettleman
2079	top load	5/19/2010	5/19/2010	Full	TSCA PCB Waste	5/21/2010	Area C/D - Cell I5	Soil/rock, debris, PPE, and plastic sheeting.	12.17CY	18.25	N/A	CA582242	Waste Management Kettleman
823	top load	6/16/2010	6/16/2010	Full	Non-RCRA	6/17/2010	Areas C and D - Cell L7	Soil/rock, debris, PPE, and plastic sheeting.	12.32CY	18.48	N/A	CH423044B	Clean Harbors Buttonwillow
827	top load	6/24/2010	6/24/2010	Full	Non-RCRA	7/1/2010	Areas C and D - Cell N6.	Soil/rock, debris, PPE, and plastic sheeting.	12.45CY	18.67	N/A	CH423044B	Clean Harbors Buttonwillow
842	top load	6/21/2010	6/21/2010	Full	Non-RCRA	6/23/2010	Areas C and D - Cells L5, L6, and L7	Soil/rock, debris, PPE, and plastic sheeting.	12.18CY	18.27	N/A	CH423044B	Clean Harbors Buttonwillow
860	top load	6/18/2010	6/18/2010	Full	Non-RCRA	6/23/2010	Areas C and D - Cells L5, L6, and L7	Soil/rock, debris, PPE, and plastic sheeting.	11.93CY	17.89	N/A	CH423044B	Clean Harbors Buttonwillow
856	top load	6/21/2010	6/21/2010	Full	Non-RCRA	6/24/2010	Areas C and D - Cells L5, L6, N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	11.8CY	17.70	N/A	CH423044B	Clean Harbors Buttonwillow
861W	top load	6/21/2010	6/21/2010	Full	Non-RCRA	6/24/2010	Areas C and D - Cells L5, L6, N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	11.54CY	17.31	N/A	CH423044B	Clean Harbors Buttonwillow
820	top load	6/21/2010	6/21/2010	Full	Non-RCRA	6/24/2010	Areas C and D - Cells L5, L6, N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	12.54CY	18.81	N/A	CH423044B	Clean Harbors Buttonwillow
840	top load	6/21/2010	6/21/2010	Full	Non-RCRA	6/24/2010	Areas C and D - Cells L5, L6, N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	12.19CY	18.29	N/A	CH423044B	Clean Harbors Buttonwillow
862W	top load	6/21/2010	6/21/2010	Full	Non-RCRA	6/24/2010	Areas C and D - Cells L5, L6, N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	12.57CY	18.85	N/A	CH423044B	Clean Harbors Buttonwillow
827	top load	6/16/2010	6/16/2010	Full	Non-RCRA	6/17/2010	Areas C and D - Cells L6 and L7	Soil/rock, debris, PPE, and plastic sheeting.	12.27CY	18.41	N/A	CH423044B	Clean Harbors Buttonwillow
844	top load	6/16/2010	6/16/2010	Full	Non-RCRA	6/17/2010	Areas C and D - Cells L6 and L7	Soil/rock, debris, PPE, and plastic sheeting.	12.55CY	18.82	N/A	CH423044B	Clean Harbors Buttonwillow
845	top load	6/16/2010	6/16/2010	Full	Non-RCRA	6/17/2010	Areas C and D - Cells L6 and L7	Soil/rock, debris, PPE, and plastic sheeting.	11.78CY	17.67	N/A	CH423044B	Clean Harbors Buttonwillow
810	top load	6/18/2010	6/18/2010	Full	Non-RCRA	6/23/2010	Areas C and D - Cells L6 and L7	Soil/rock, debris, PPE, and plastic sheeting.	12.31CY	18.47	N/A	CH423044B	Clean Harbors Buttonwillow
828	top load	6/21/2010	6/21/2010	Empty	Non-RCRA	6/23/2010	Areas C and D - Cells L6 and M6	Soil/rock, debris, PPE, and plastic sheeting.	12.23CY	18.34	N/A	CH423044B	Clean Harbors Buttonwillow
829	top load	6/18/2010	6/18/2010	Full	Non-RCRA	6/23/2010	Areas C and D - Cells L6 and M6	Soil/rock, debris, PPE, and plastic sheeting.	11.89CY	17.83	N/A	CH423044B	Clean Harbors Buttonwillow

BIN #	BIN TYPE	DATE BIN ARRIVED ONSITE	DATE BIN INSPECTED	STATUS (FULL, PARTIAL, EMPTY)	LABELED WASTE CATEGORY	ACCUMULATION START DATE	ORIGIN OF WASTE	WASTE TYPE	WASTE VOLUME	WASTE TONNAGE	SAMPLE #S ASSOCIATED WITH WASTE	PROFILE NO.	DISPOSAL FACILITY
870	top load	6/14/2010	6/14/2010	Full	Non-RCRA	6/16/2010	Areas C and D - Cells L6, L7, M6, and M7	Soil/rock, debris, PPE, and plastic sheeting.	11.29CY	16.93	N/A	CH423044B	Clean Harbors Buttonwillow
859	top load	6/16/2010	6/16/2010	Full	Non-RCRA	6/23/2010	Areas C and D - Cells L6, M6, and M7	Soil/rock, debris, PPE, and plastic sheeting.	11.8CY	17.70	N/A	CH423044B	Clean Harbors Buttonwillow
869W	top load	6/16/2010	6/16/2010	Full	Non-RCRA	6/17/2010	Areas C and D - Cells L7 and M7	Soil/rock, debris, PPE, and plastic sheeting.	11.77CY	17.66	N/A	CH423044B	Clean Harbors Buttonwillow
2028	top load	6/28/2010	6/28/2010	Full	Non-RCRA	6/29/2010	Areas C and D - Cells L7 and N6	Soil/rock, debris, PPE, and plastic sheeting.	11.61CY	17.41	N/A	CH423044B	Clean Harbors Buttonwillow
832	top load	6/30/2010	6/30/2010	Full	Non-RCRA	7/6/2010	Areas C and D - Cells L7, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.41CY	18.61	N/A	CH423044B	Clean Harbors Buttonwillow
859	top load	6/30/2010	6/30/2010	Full	Non-RCRA	7/6/2010	Areas C and D - Cells L7, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	13.27CY	19.90	N/A	CH423044B	Clean Harbors Buttonwillow
805	top load	6/21/2010	6/21/2010	Full	Non-RCRA	6/30/2010	Areas C and D - Cells L7, N6 and N7.	Soil/rock, debris, PPE, and plastic sheeting.	11.99CY	17.98	N/A	CH423044B	Clean Harbors Buttonwillow
809	top load	6/16/2010	6/16/2010	Full	Non-RCRA	6/18/2010	Areas C and D - Cells M5, L7 and M7	Soil/rock, debris, PPE, and plastic sheeting.	10.96CY	16.44	N/A	CH423044B	Clean Harbors Buttonwillow
826	top load	6/16/2010	6/16/2010	Full	Non-RCRA	6/18/2010	Areas C and D - Cells M5, L7 and M7	Soil/rock, debris, PPE, and plastic sheeting.	11.61CY	17.42	N/A	CH423044B	Clean Harbors Buttonwillow
841	top load	6/16/2010	6/16/2010	Full	Non-RCRA	6/18/2010	Areas C and D - Cells M5, L7 and M7	Soil/rock, debris, PPE, and plastic sheeting.	12.03CY	18.05	N/A	CH423044B	Clean Harbors Buttonwillow
850	top load	6/16/2010	6/16/2010	Full	Non-RCRA	6/18/2010	Areas C and D - Cells M5, L7 and M7	Soil/rock, debris, PPE, and plastic sheeting.	11.69CY	17.53	N/A	CH423044B	Clean Harbors Buttonwillow
866W	top load	6/16/2010	6/16/2010	Full	Non-RCRA	6/18/2010	Areas C and D - Cells M5, L7 and M7	Soil/rock, debris, PPE, and plastic sheeting.	12.24CY	18.36	N/A	CH423044B	Clean Harbors Buttonwillow
809	top load	6/24/2010	6/24/2010	Full	Non-RCRA	6/28/2010	Areas C and D - Cells M5, M6, M7, N5, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	11.97CY	17.95	N/A	CH423044B	Clean Harbors Buttonwillow
850	top load	6/24/2010	6/24/2010	Full	Non-RCRA	6/28/2010	Areas C and D - Cells M5, M6, M7, N5, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	11.41CY	17.11	N/A	CH423044B	Clean Harbors Buttonwillow
869W	top load	6/24/2010	6/24/2010	Full	Non-RCRA	6/28/2010	Areas C and D - Cells M5, M6, M7, N5, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	11.62CY	17.43	N/A	CH423044B	Clean Harbors Buttonwillow
870	top load	6/24/2010	6/24/2010	Full	Non-RCRA	6/28/2010	Areas C and D - Cells M5, M6, M7, N5, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.41CY	18.61	N/A	CH423044B	Clean Harbors Buttonwillow

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812	top load	6/30/2010	6/30/2010	Full	Non-RCRA	7/2/2010	Areas C and D - Cells M5, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.09CY	18.14	N/A	CH423044B	Clean Harbors Buttonwillow
856	top load	6/30/2010	6/30/2010	Full	Non-RCRA	7/2/2010	Areas C and D - Cells M5, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	13.05CY	19.57	N/A	CH423044B	Clean Harbors Buttonwillow
860	top load	6/30/2010	6/30/2010	Full	Non-RCRA	7/2/2010	Areas C and D - Cells M5, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.83CY	19.24	N/A	CH423044B	Clean Harbors Buttonwillow
861W	top load	6/30/2010	6/30/2010	Full	Non-RCRA	7/2/2010	Areas C and D - Cells M5, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	11.99CY	17.99	N/A	CH423044B	Clean Harbors Buttonwillow
866W	top load	6/24/2010	6/24/2010	Full	Non-RCRA	7/2/2010	Areas C and D - Cells M5, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.13CY	18.19	N/A	CH423044B	Clean Harbors Buttonwillow
826	top load	7/2/2010	7/2/2010	Full	Non-RCRA	7/7/2010	Areas C and D - Cells M5, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.76CY	19.14	N/A	CH423044B	Clean Harbors Buttonwillow
809	top load	7/2/2010	7/2/2010	Full	Non-RCRA	7/7/2010	Areas C and D - Cells M5, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.21CY	18.31	N/A	CH423044B	Clean Harbors Buttonwillow
823	top load	6/28/2010	6/28/2010	Full	Non-RCRA	7/8/2010	Areas C and D - Cells M5, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.43CY	18.64	N/A	CH423044B	Clean Harbors Buttonwillow
828	top load	7/2/2010	7/2/2010	Full	Non-RCRA	7/8/2010	Areas C and D - Cells M5, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.2CY	18.30	N/A	CH423044B	Clean Harbors Buttonwillow
852	top load	7/2/2010	7/2/2010	Full	Non-RCRA	7/8/2010	Areas C and D - Cells M5, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.75CY	19.13	N/A	CH423044B	Clean Harbors Buttonwillow
869W	top load	7/2/2010	7/2/2010	Full	Non-RCRA	7/7/2010	Areas C and D - Cells M5, M6, M7, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.76CY	19.14	N/A	CH423044B	Clean Harbors Buttonwillow
826	top load	6/24/2010	6/24/2010	Full	Non-RCRA	6/29/2010	Areas C and D - Cells M5, M6, N5, and N6	Soil/rock, debris, PPE, and plastic sheeting.	12.53CY	18.80	N/A	CH423044B	Clean Harbors Buttonwillow
852	top load	6/21/2010	6/21/2010	Full	Non-RCRA	6/28/2010	Areas C and D - Cells M5, M6, N5, and N6	Soil/rock, debris, PPE, and plastic sheeting.	11.95CY	17.93	N/A	CH423044B	Clean Harbors Buttonwillow
853	top load	6/18/2010	6/18/2010	Empty	Non-RCRA	6/22/2010	Areas C and D - Cells M5, N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	11.33CY	16.99	N/A	CH423044B	Clean Harbors Buttonwillow
837	top load	6/28/2010	6/28/2010	Full	Non-RCRA	7/1/2010	Areas C and D - Cells M6 and M7.	Soil/rock, debris, PPE, and plastic sheeting.	12.14CY	18.21	N/A	CH423044B	Clean Harbors Buttonwillow
822	top load	6/24/2010	6/24/2010	Full	Non-RCRA	7/1/2010	Areas C and D - Cells M6 and M7.	Soil/rock, debris, PPE, and plastic sheeting.	12.67CY	19.00	N/A	CH423044B	Clean Harbors Buttonwillow
810	top load	6/30/2010	6/30/2010	Full	Non-RCRA	7/1/2010	Areas C and D - Cells M6 and M7.	Soil/rock, debris, PPE, and plastic sheeting.	11.55CY	17.33	N/A	CH423044B	Clean Harbors Buttonwillow

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2079	top load	7/2/2010	7/2/2010	Full	Non-RCRA	7/6/2010	Areas C and D - Cells M6 and M7.	Soil/rock, debris, PPE, and plastic sheeting.	11.73CY	17.60	N/A	CH423044B	Clean Harbors Buttonwillow
806	top load	6/21/2010	6/21/2010	Empty	Non-RCRA	6/22/2010	Areas C and D - Cells M6, N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	11.86CY	17.79	N/A	CH423044B	Clean Harbors Buttonwillow
841	top load	6/28/2010	6/28/2010	Full	Non-RCRA	6/29/2010	Areas C and D - Cells M6, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.5CY	18.75	N/A	CH423044B	Clean Harbors Buttonwillow
844	top load	6/28/2010	6/28/2010	Full	Non-RCRA	6/29/2010	Areas C and D - Cells M6, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.33CY	18.49	N/A	CH423044B	Clean Harbors Buttonwillow
837	top load	6/18/2010	6/18/2010	Full	Non-RCRA	6/21/2010	Areas C and D - Cells N5 and M6	Soil/rock, debris, PPE, and plastic sheeting.	12.88CY	19.32	N/A	CH423044B	Clean Harbors Buttonwillow
2079	top load	6/28/2010	6/28/2010	Full	Non-RCRA	6/29/2010	Areas C and D - Cells N5, N6, and N7.	Soil/rock, debris, PPE, and plastic sheeting.	11.76CY	17.64	N/A	CH423044B	Clean Harbors Buttonwillow
812	top load	6/18/2010	6/18/2010	Empty	Non-RCRA	6/22/2010	Areas C and D - Cells N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	11.86CY	17.79	N/A	CH423044B	Clean Harbors Buttonwillow
848	top load	6/16/2010	6/16/2010	Full	Non-RCRA	6/21/2010	Areas C and D - Cells N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	11.91CY	17.87	N/A	CH423044B	Clean Harbors Buttonwillow
2079	top load	6/18/2010	6/18/2010	Empty	Non-RCRA	6/22/2010	Areas C and D - Cells N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	11.93CY	17.89	N/A	CH423044B	Clean Harbors Buttonwillow
865W	top load	6/18/2010	6/18/2010	Full	Non-RCRA	6/21/2010	Areas C and D - Cells N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	11.89CY	17.84	N/A	CH423044B	Clean Harbors Buttonwillow
868W	top load	6/18/2010	6/18/2010	Full	Non-RCRA	6/21/2010	Areas C and D - Cells N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	12.48CY	18.72	N/A	CH423044B	Clean Harbors Buttonwillow
832	top load	6/21/2010	6/21/2010	Full	Non-RCRA	6/22/2010	Areas C and D - Cells N6 and N7	Soil/rock, debris, PPE, and plastic sheeting.	12.15CY	18.23	N/A	CH423044B	Clean Harbors Buttonwillow
845	top load	6/28/2010	6/28/2010	Full	Non-RCRA	6/30/2010	Areas C and D - Cells N6 and	Soil/rock, debris, PPE, and plastic sheeting.	12.41CY	18.61	N/A	CH423044B	Clean Harbors Buttonwillow
818	top load	6/21/2010	6/21/2010	Full	Non-RCRA	6/30/2010	Areas C and D - Cells N6 and	Soil/rock, debris, PPE, and plastic sheeting.	12.46CY	18.69	N/A	CH423044B	Clean Harbors Buttonwillow
865W	top load	6/28/2010	6/28/2010	Full	Non-RCRA	6/30/2010	Areas C and D - Cells N6 and	Soil/rock, debris, PPE, and plastic sheeting.	12.07CY	18.10	N/A	CH423044B	Clean Harbors Buttonwillow
868W	top load	6/28/2010	6/28/2010	Full	Non-RCRA	6/30/2010	Areas C and D - Cells N6 and	Soil/rock, debris, PPE, and plastic sheeting.	11.94CY	17.91	N/A	CH423044B	Clean Harbors Buttonwillow
842	top load	7/2/2010	7/2/2010	Full	Non-RCRA	7/7/2010	Areas C and D - Cells N6 and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.75CY	19.12	N/A	CH423044B	Clean Harbors Buttonwillow
853	top load	7/2/2010	7/2/2010	Full	Non-RCRA	7/7/2010	Areas C and D - Cells N6 and N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.34CY	18.51	N/A	CH423044B	Clean Harbors Buttonwillow
2028	top load	6/18/2010	6/18/2010	Full	Non-RCRA	6/21/2010	Areas C and D - Cells N6, N7, and M5	Soil/rock, debris, PPE, and plastic sheeting.	12.09CY	18.14	N/A	CH423044B	Clean Harbors Buttonwillow
820	top load	7/6/2010	7/6/2010	Full	Non-RCRA	7/8/2010	Areas C and D - Cells N6, N7, O6, and O7.	Soil/rock, debris, PPE, and plastic sheeting.	12.4CY	18.60	N/A	CH423044B	Clean Harbors Buttonwillow

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2028	top load	7/6/2010	7/6/2010	Full	Non-RCRA	7/8/2010	Areas C and D - Cells N6, N7, O6, and O7.	Soil/rock, debris, PPE, and plastic sheeting.	12.19CY	18.28	N/A	CH423044B	Clean Harbors Buttonwillow
841	top load	7/2/2010	7/2/2010	Full	Non-RCRA	7/6/2010	Areas C and D - Cells N7.	Soil/rock, debris, PPE, and plastic sheeting.	12.27CY	18.40	N/A	CH423044B	Clean Harbors Buttonwillow
857	top load	5/21/2010	5/21/2010	Partial	ACM	5/27/2010	Area C and D ACM Debris	Asbestos containing material (friable and non-friable) picked from Areas C and D.	0.53CY	0.79	N/A	CH424219B	Clean Harbors Buttonwillow
										8798.51			

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SUBAREA F													
2079	top load	Unknown - takeover from PG&E	2/8/2010	Partial	Non-RCRA	1/28/2010	Area F - Material Scraped Up Near Entrance, Debris from Brushing, and duct bank debris	Soil cuttings, brush from ravine pruning, PPE, and plastic sheeting. Also contains fencing from Area A catch fence as well as duct concrete debris from PG&E plant staff.	31..CY	4.67	Bin 2079 Composite (sent to ATL/APPL for waste characterization suite)	CA581716	Waste Management Kettleman
859	top load	2/5/2010	2/8/2010	Full	Non-RCRA Hazardous Waste	2/9/2010	Area F - gabion	Soil/rock, debris, PPE, and plastic sheeting.	10.2CY	15.30	AOC4-GB #s 1-8	CH423044B	Clean Harbors Buttonwillow
827	top load	2/9/2010	2/9/2010	Full	Non-RCRA Hazardous Waste	2/9/2010	Area F - gabion	Soil/rock, debris, PPE, and plastic sheeting.	11.42CY	17.13	AOC4-GB #s 1-8	CH423044B	Clean Harbors Buttonwillow
809	top load	2/9/2010	2/9/2010	Full	Non-RCRA Hazardous Waste	2/9/2010	Area F - gabion	Soil/rock, debris, PPE, and plastic sheeting.	9.55CY	14.33	AOC4-GB #s 1-8	CH423044B	Clean Harbors Buttonwillow
862W	top load	2/10/2010	2/10/2010	Full	Non-RCRA Hazardous Waste	2/10/2010	Area F - gabion	Soil/rock, debris, PPE, and plastic sheeting.	8.69CY	13.03	AOC4-GB #s 1-8	CH423044B	Clean Harbors Buttonwillow
826	top load	2/3/2010	2/3/2010	Full	Non-RCRA Hazardous Waste	2/8/2010	Area F - gabion	Soil/rock, debris, PPE, and plastic sheeting.	11.58CY	17.37	AOC4-GB #s 1-8	CH423044B	Clean Harbors Buttonwillow
861 W	top load	2/5/2010	2/8/2010	Full	Non-RCRA Hazardous Waste	2/8/2010	Area F - gabion	Soil/rock, debris, PPE, and plastic sheeting.	11.2CY	16.80	AOC4-GB #s 1-8	CH423044B	Clean Harbors Buttonwillow
837	top load	2/10/2010	2/10/2010	Full	Non-RCRA Hazardous Waste	2/10/2010	Area F - gabion	Soil/rock, debris, PPE, and plastic sheeting.	10.56CY	15.84	AOC4-GB #s 1-8	CH423044B	Clean Harbors Buttonwillow
										114.47			

Appendix D
AOC 4 Outfall Gabion Documentation

D.1 AOC 4 Outfall Gabion Documentation Narrative

Appendix D AOC4 Outfall Gabion Documentation

Given the physical conditions and access constraints of this location, the materials in Subarea F were left in place during this interim remediation. A rock gabion structure was installed in the ravine outfall to Bat Cave Wash downstream of Subarea F at the start of AOC 4 work activities. The gabion was located downstream from the two temporary check dams described in Section 2.1 and shown on Figure 2-1. The upstream controls (temporary check dams) limited runoff velocities into Subarea F, and the downstream control limited sediment transport out of Subarea F.

The gabion was constructed with cobble-filled wire baskets with the face and sediment trap lined with filter fabric. The gabion acts as a sediment filter and will retain any debris that is washed out of the drainage during seasonal rains. Final placement of the gabion and appropriate longer-term maintenance procedures were developed and mutually agreed upon by the Refuge Manager and PG&E. Longer-term maintenance will include continued periodic inspection with emphasis on pre- and post-rainfall inspections and, if necessary, removal of accumulated fines from behind the gabion.

During placement of the gabion, soil samples for confirmation analyses were collected from the locations shown in Figure D-1. Table D-1 shows the laboratory results. Materials removed during the sampling and during local site leveling for the gabion installation were placed into roll-off bins and managed similarly to other excavated materials.

D.2 Results of Gabion Installation Soil Sampling

Appendix D-2

Soil Sample Results Compared to Target Endpoints Concentrations

Havasu National Wildlife Refuge

Implementation Report for the Time Critical Removal Action at AOC4

PG&E Topock Compressor Station, Needles, California

Location	Date	Sample Type	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Pentachloro phenol	TEQ [a]	B(a)P Equivalent [b]	Total PCBs [c]
			(mg/kg)																		(µg/kg)	(ng/kg)	(µg/kg)	(µg/kg)
Target Endpoint Concentrations[1]:			**NA**	**11**	**410**	**NA**	**1.1**	**39.8**	**0.83**	**12.7**	**16.8**	**8.39**	**NA**	**1.37**	**27.3**	**1.47**	**NA**	**NA**	**52.2**	**58**	**2,490**	**1.6**	**NA**	**204**
AOC4-GB01	02/02/10	N	ND (2.10)	ND (1.00)	150	ND (1.00)	ND (1.00)	25.0	ND (0.42)	9.10	10.0	9.30	ND (0.10)	ND (1.00)	16.0	ND (1.00)	ND (1.00)	ND (2.10)	43.0	44.0	ND (340)	44	9.0	87.0
AOC4-GB02	02/02/10	N	ND (2.00)	ND (1.00)	130	ND (1.00)	ND (1.00)	45.0	1.20	7.60	15.0	9.70	ND (0.10)	ND (1.00)	20.0	ND (1.00)	ND (1.00)	ND (2.00)	34.0	68.0	ND (330)	500	20.0	1,500
AOC4-GB03	02/02/10	N	ND (2.10)	ND (1.10)	130	ND (1.10)	ND (1.10)	41.0	ND (0.42)	7.40	11.0	14.0	ND (0.10)	ND (1.10)	14.0	ND (1.10)	ND (1.10)	ND (2.10)	37.0	50.0	ND (350)	990	4.5	580
AOC4-GB04	02/02/10	N	ND (2.10)	ND (1.00)	170 J	ND (1.00)	ND (1.00)	45.0	ND (0.42)	8.30	60.0 J	30.0 J	ND (0.10)	ND (1.00)	23.0	ND (1.00)	ND (1.00)	ND (2.10)	38.0	71.0	ND (340)	58	5.9	1,900
	02/02/10	FD	ND (2.10)	ND (1.00)	240 J	ND (1.00)	ND (1.00)	44.0 J	ND (0.41)	8.30	95.0 J	300 J	ND (0.10)	ND (1.00) J	22.0	ND (1.00) J	ND (1.00)	ND (2.10)	38.0 J	71.0 J	ND (340)	45	17.0	680
AOC4-GB05	02/08/10	N	ND (2.20)	ND (1.10)	150 J	ND (1.10)	ND (1.10)	28.0 J	ND (0.44)	8.00	13.0	8.30 J	ND (0.11)	ND (1.10)	15.0	ND (1.10) J	ND (1.10)	ND (2.20)	36.0 J	48.0 J	ND (370)	770	26.0	2,400
AOC4-GB06	02/08/10	N	ND (2.10)	ND (1.10)	120	ND (1.10)	ND (1.10)	24.0	0.74	7.20	11.0	5.20	ND (0.11)	ND (1.10)	12.0	ND (1.10)	ND (1.10)	ND (2.10)	35.0	41.0	ND (350)	160	4.9	490
AOC4-GB07	02/08/10	N	ND (2.20)	ND (1.10)	150	ND (1.10)	ND (1.10)	21.0	ND (0.45)	7.70	9.20	4.90	ND (0.11)	ND (1.10)	15.0	ND (1.10)	ND (1.10)	ND (2.20)	36.0	41.0	ND (370)	28	ND (4.9)	ND
AOC4-GB08	02/09/10	N	ND (2.20)	ND (1.10)	160	ND (1.10)	ND (1.10)	19.0	ND (0.45)	8.60	9.90	5.80	ND (0.11)	ND (1.10)	14.0	ND (1.10)	ND (1.10)	ND (2.20)	39.0	48.0	ND (370)	19	ND (4.9)	ND
AOC4-GB09	02/09/10	N	ND (2.30)	ND (1.10)	160	ND (1.10)	ND (1.10)	17.0	ND (0.45)	7.10	9.20	5.20	ND (0.11)	ND (1.10)	12.0	ND (1.10)	ND (1.10)	ND (2.30)	35.0	38.0	ND (370)	46	10.0	180
AOC4-GB10	02/10/10	N	ND (2.20)	ND (1.10)	160 J	ND (1.10)	ND (1.10)	35.0 J	ND (0.44)	8.50	16.0	14.0	ND (0.11)	ND (1.10)	20.0	ND (1.10)	ND (1.10)	ND (2.20)	40.0 J	71.0 J	ND (370)	87	24.0	370
AOC4-GB11	02/10/10	N	ND (2.20)	ND (1.10)	170	ND (1.10)	ND (1.10)	31.0	ND (0.43)	9.10	13.0	7.20 J	ND (0.11)	ND (1.10)	17.0	ND (1.10)	ND (1.10)	ND (2.20)	38.0	46.0	ND (360)	87	13.0	370
	02/10/10	FD	ND (2.20)	ND (1.10)	160	ND (1.10)	ND (1.10)	29.0	0.57	8.10	14.0	16.0 J	ND (0.11)	ND (1.10)	16.0	ND (1.10)	ND (1.10)	ND (2.20)	38.0	47.0	ND (360)	110	16.0	920
AOC4-GB12	02/10/10	N	ND (2.20)	ND (1.10)	160	ND (1.10)	ND (1.10)	35.0	ND (0.44)	9.10	15.0	5.50	ND (0.11)	ND (1.10)	24.0	ND (1.10)	ND (1.10)	ND (2.20)	42.0	43.0	ND (370)	21	17.0	440

Notes:

Circled values indicate results that exceed AOC 4 Target Endpoint Concentration.

[1] For metals, the target endpoint concentration is the Topock Soil Background Threshold Values (BTV), Revised Soil Background Investigation at the Pacific Gas and Electric Company, Topock Compressor Station, Needles, California, Technical Memorandum, May 2009. For organics, the target endpoint concentratin is ecological comparison values or the residential preliminary remediation goal.

[a] Dioxin/Furan toxicity equivalent, TEQ, was calculated as the sum of dioxins and furans, each multiplied by its corresponding toxicity equivalency factor, WHO 2005. A concentration of half of the RL was used for ND results.

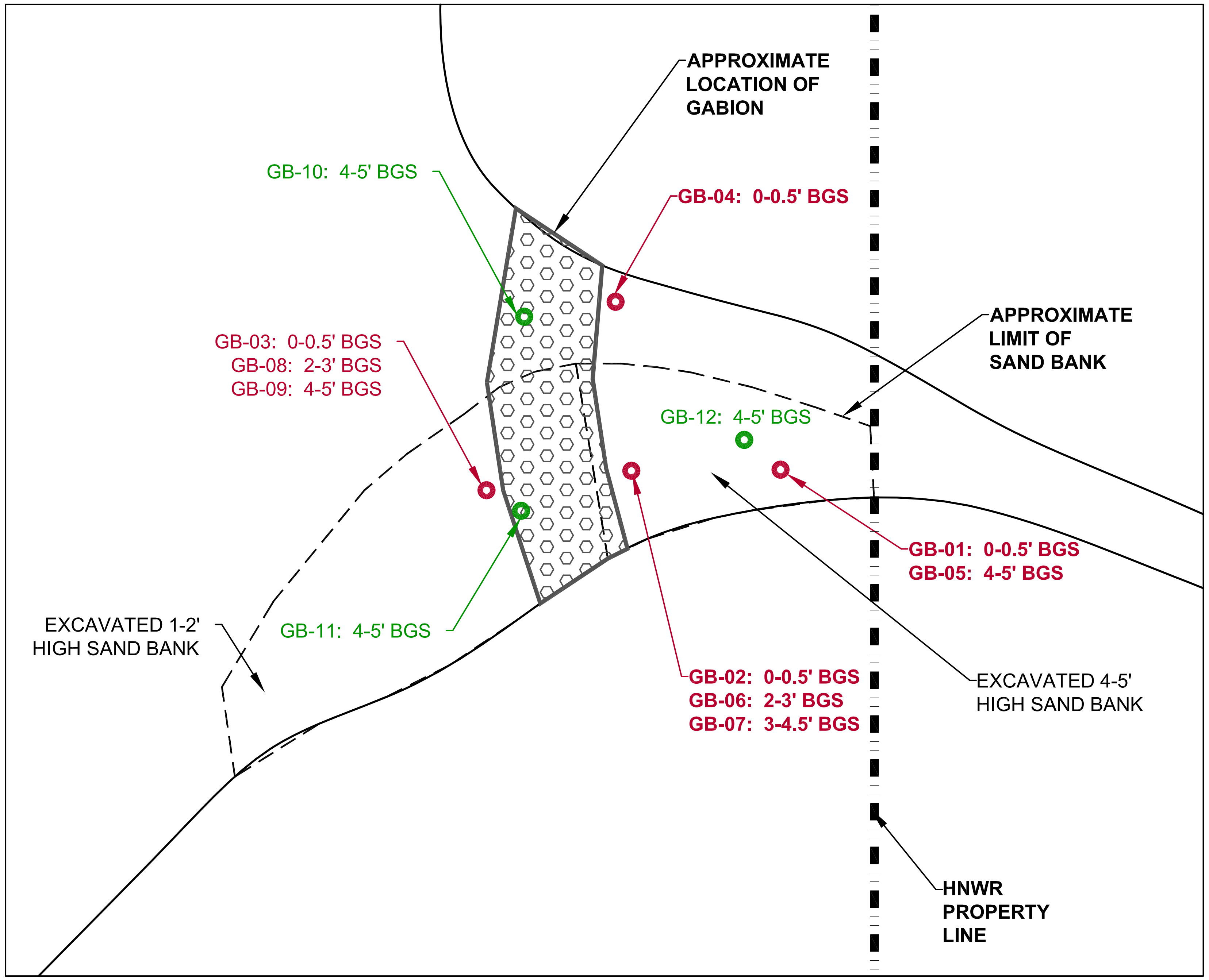
[b] Benzo[a]pyrene, B(a)P, equivalent was calculated as the sum of carcinogenic polyaromatic hydrocarbons, each multiplied by its corresponding potency equivalency factor, CAL EPA 1994. A concentration of half of the RL was used for ND results.

[c] Total Polychlorinated Biphenyls, Total PCBs, was calculated by summing the detected concentrations of Aroclor PCB compounds plus ½ the RL for non-detect Aroclors if the Aroclor has been detected elsewhere in the AOC. If all Aroclors in a particular sample are non-detect the PCB Total is 0.

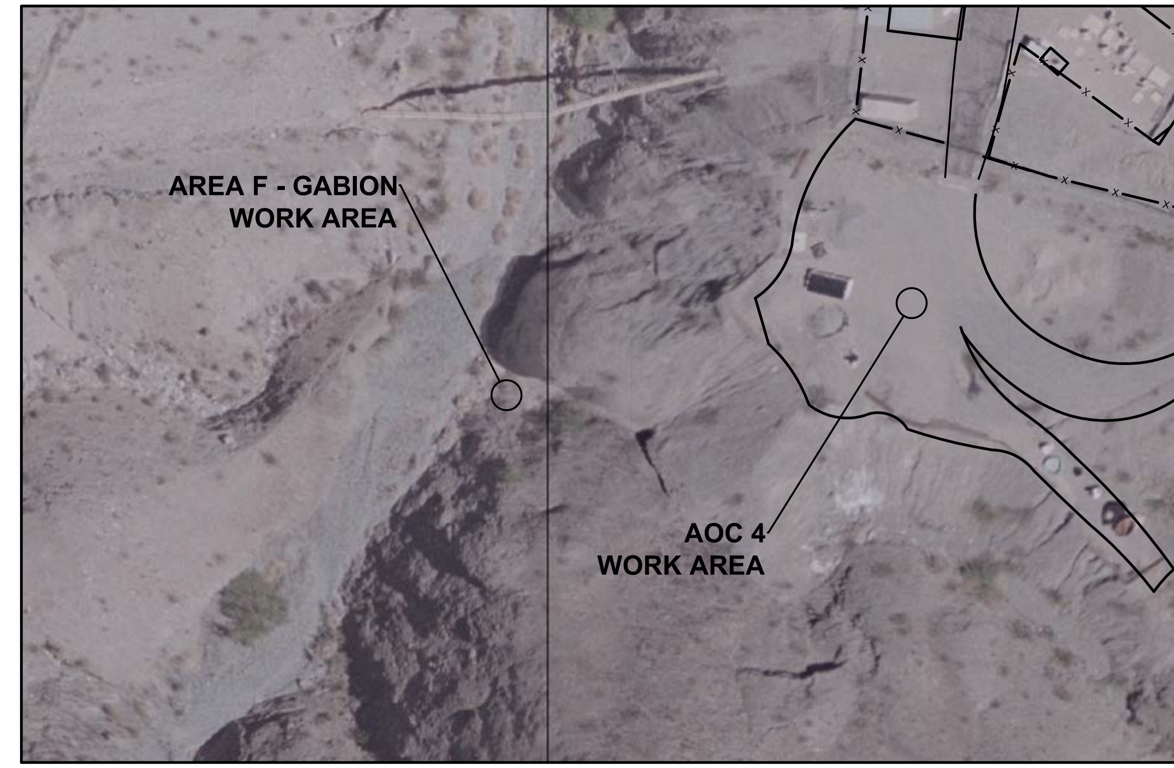
--- not applicable
µg/kg micrograms per kilogram
mg/kg milligrams per kilogram
ng/kg nanograms per kilogram
FD field duplicate
N normal sample
NA not available
ND not detected at listed reporting limit

D.3 Gabion and Soil Sample Locations

Figure D-3
Gabion Sampling Layout Plan
Implementation Report for the Time-Critical Removal Action at AOC 4



GABION WORK AREA ENLARGED PLAN
SCALE: 1"=4' (D-SIZE) AND 1"=8' (11X17)



GABION VICINITY PLAN
SCALE: 1"=40' (D-SIZE) AND 1"=80' (11X17)

LEGEND:

GB-01 0-0.5'	CHARACTERIZATION SOIL SAMPLING LOCATION (COLLECTED DURING REMOVAL) AND DEPTH INTERVAL
GB-12 0-0.5'	CONFIRMATION SOIL SAMPLING LOCATION (COLLECTED AFTER REMOVAL) AND DEPTH INTERVAL

NOTES:

1. SAMPLING LOCATIONS ARE APPROXIMATE BECAUSE THE GPS WAS NOT ABLE TO ACQUIRE A SUFFICIENT NUMBER OF SATELLITES TO FUNCTION PROPERLY.
2. SAMPLES GB-01, GB-02, GB-03, AND GB-04 WERE COLLECTED FROM THE SHALLOW SUBSURFACE (0-0.5' BGS) INTERVAL PRIOR TO THE START OF REMOVAL.
3. SAMPLES GB-06 AND GB-08 WERE COLLECTED FROM THE MID-BANK INTERVAL (2-3' BGS) DURING EXCAVATION.
4. SAMPLES GB-05, GB-07, AND GB-09 WERE COLLECTED FROM THE BOTTOM OF THE SEDIMENT BANK (4-5' BGS) AFTER EXCAVATION.
5. SAMPLES GB-10, GB-11, AND GB-12 WERE COLLECTED FROM THE SHALLOW SUBSURFACE AFTER DEBRIS AND SOIL REMOVAL WERE COMPLETED FROM THE ENTIRE VICINITY OF THE GABION BUT PRIOR TO GABION INSTALLATION.

SCALES ARE AS NOTED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name
Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by HAJ	Checked by

ARCADIS
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PACIFIC GAS & ELECTRIC COMPANY • TOPOCK, CALIFORNIA
SITE LAYOUT DRAWINGS
GABION SAMPLING LAYOUT PLAN
GENERAL ARRANGEMENT

ARCADIS Project No.
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Date
APRIL 13, 2010
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630 PLAZA DRIVE, SUITE 100
HIGHLANDS RANCH, COLORADO
TEL. 720.344.3500

Appendix E
Photographs

Appendix E
Photographs

The following photographs represent a pictorial chronology of the AOC 4 TCRA implementation. Captions beneath the Photographs explain the Photograph, and each Photograph is date stamped for reference.

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E-4: North check dam (February 3, 2010)

E-5: Excavation activities in Subarea F near gabion location (February 9, 2010)

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Photograph E-92: Excavation activities in Subarea C north

Photograph E-93: Demobilization of vacuum truck

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Appendix F
Removal Action Documentation

F.1 Removal Action Narrative

Appendix F
Removal Action Documentation

Field work was completed in accordance with the *Final Work Plan for Time-Critical Removal Action at AOC 4 Debris Ravine, PG&E Topock Compressor Station, Needles, California* (Alisto et al., 2009) and the May 26, 2010 Proposed Work Plan Clarification Memorandum. As discussed in the May 26, 2010 Clarification Memo, excavation was considered complete when all fill and debris was removed and the grid cell was characterized as either "bedrock", "disturbed alluvium" where sample screening and confirmation results were below the 1x target endpoint concentrations (TECs) or "native alluvium" where the sample screening and confirmation results were below the 10x TECs. In addition, in areas where the cells were characterized as disturbed alluvium, potholing was conducted in multiple locations to confirm that additional layers of fill and debris were not present.

Bedrock was defined in the AOC4 area as a grayish-green metadiorite present in both weathered and indurated forms.

Disturbed alluvium was defined as locally-derived unconsolidated alluvium and colluvium, which has been redeposited through anthropogenic means, and does not exhibit natural depositional features (e.g., bedding planes and/or preferred clast orientation). Disturbed alluvium in the project area is thought to have been deposited by the disposal operations that historically occurred.

Native alluvium was defined as locally-derived undisturbed alluvium and colluvium comprising the original slope. In some areas of AOC4, native alluvium was observed as weakly cemented and exhibiting some natural bedding features, such as preferred clast orientation; however, the majority of the native alluvium observed in AOC4 was a thin veneer of loosely compacted and/or cemented alluvium/colluvium immediately overlying weathered or competent bedrock. This thin veneer of alluvium, at times, also contained weathered bedrock clasts within its matrix. Additionally, there were a few instances where the remaining cell surface contained clasts with desert varnish features, suggesting undisturbed, non-anthropogenically altered deposition. Note that this desert varnish feature has been observed in the surrounding undisturbed hillsides, which are comprised of alluvium/colluvium interspersed with rock clasts, again, suggesting that the desert varnish feature observed within the AOC4 work area is representative of native alluvium. Lastly, another important feature observed during the excavation operations was the change in material resistance when transitioning from disturbed alluvium to native alluvium, and this observation is consistent with earlier observations noted during initial soil sample collection and trenching activities.

If initial screening results were above the 10x TECs, then excavation continued in 12 inches increments until the applicable screening criteria were met. When all fill and debris was considered removed, then initial screening samples were collected from the center of the grid cell, with a few exceptions where collection in the center of the grid cell was not possible due to lack of alluvial material or unsafe access conditions. Once initial screening indicated that the 1x or 10x TECs were met (dependent on the characterized material), excavation was considered complete, and confirmation soil samples could then be analyzed for. If the initial screening samples did not fall below the applicable TECs, then additional removal was conducted (again in 12 inch increments), and additional screening samples were collected until applicable TECs could be met. The only exception to this scenario was when bedrock was ultimately encountered. When bedrock was encountered, excavation ceased, and was considered an endpoint for the removal activities.

There were several instances, in which applicable TECs were exceeded in the screening samples, where mechanical removal methods could not be further implemented due to the amount of bedrock observed on the cell surface. In these 8 instances, additional removal of alluvium was conducted using a vacuum. In addition, there were 17 cells where applicable TECs had been met, but vacuum methods were employed to remove additional visible inert debris (e.g., glass).

In all instances where the cell was characterized as disturbed alluvium, 1x TECs were ultimately met. In 19 instances where the cell was characterized as native alluvium, 10x TECs were ultimately met; in the remaining 44 instances, 1x TECs were ultimately met.

F.2 Grid Cell Documentation

TABLE F-1
Grid Results Summary Table
Implementation Report for the Time-Critical Removal Action at AOC 4
Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA
Privileged and Confidential

Grid Cell	Sub Area	Removal Method	Material Type Remaining	Excavation/Sample Collection Comments	Decision Criteria: Confirmation Samples <1 X TEP or <10 X TEP	Target Endpoint Criteria Met?	Analytical Results Comments
A1 Minus	A	mechanical	native	Sample collected from the upper part (above the bench road) of the gully that bounds Area A on the south side.	10 X TEP	passed 1x criteria	
A1 - Slope	A	mechanical	native		10 X TEP	passed 1x criteria	
A1	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for B(a)P equivalent.
A2	A	mechanical	native		10 X TEP	passed 1x criteria	
A3	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for B(a)P equivalent.
A4	A	vacuum	native	Vacuum removal of debris conducted.	10 X TEP	passed 1x criteria	
A5	A	vacuum	native	Vacuum removal of debris conducted.	10 X TEP	passed 1x criteria	
A6	A	vacuum	native	Vacuum removal of debris conducted.	10 X TEP	passed 1x criteria	
A6/7	E	no	native		10 X TEP	passed 1x criteria	
B1 - Slope	A	mechanical	native		10 X TEP	passed 1x criteria	
B1	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for B(a)P equivalent.
B2	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for Dioxin/Furan TEQ and B(a)P equivalent.
B3	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for B(a)P equivalent and Dioxin/Furan TEQ.
B4	A	mechanical	native		10 X TEP	passed 1x criteria	
B5	A	vacuum	native	Vacuum removal of debris conducted.	10 X TEP	passed 1x criteria	
B6	A	vacuum	native	Vacuum removal of debris conducted.	10 X TEP	passed 1x criteria	
B6/7	E	no	native		10 X TEP	passed 1x criteria	
C1 - Slope	A	mechanical	native		10 X TEP	passed 1x criteria	

TABLE F-1

Grid Results Summary Table

Implementation Report for the Time-Critical Removal Action at AOC 4

Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA

Privileged and Confidential

Grid Cell	Sub Area	Removal Method	Material Type Remaining	Excavation/Sample Collection Comments	Decision Criteria: Confirmation Samples <1 X TEP or <10 X TEP	Target Endpoint Criteria Met?	Analytical Results Comments
C1	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for B(a)P equivalent.
C2	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for B(a)P equivalent.
C3	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for B(a)P equivalent and Dioxin/Furan TEQ.
C4	A	mechanical	native		10 X TEP	passed 1x criteria	
C5	A	vacuum	native	Vacuum removal of debris conducted.	10 X TEP	passed 1x criteria	
C6	A	vacuum	native	Vacuum removal of debris conducted.	10 X TEP	passed 1x criteria	
C6/7	E	no	native		10 X TEP	passed 1x criteria	
D1 - Slope	A	mechanical	native		10 X TEP	passed 1x criteria	
D1	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for B(a)P equivalent.
D2	A	mechanical	native	Larger quantities of stained fill and debris were encountered in a drainage channel in this area.	10 X TEP	passed 1x criteria	
D3	A	mechanical	native		10 X TEP	passed 1x criteria	
D4	A	mechanical	native		10 X TEP	passed 1x criteria	
D5	A	vacuum	native	Vacuum removal of debris conducted.	10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for Dioxin/Furan TEQ.
D6	A	vacuum	native	Vacuum removal of debris conducted.	10 X TEP	passed 1x criteria	
D6/7	E	mechanical	disturbed alluvium		1 X TEP	passed 1x criteria	
E1 - Slope	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for total PCBs.
E2	A	mechanical	native		10 X TEP	passed 1x criteria	

TABLE F-1
Grid Results Summary Table
Implementation Report for the Time-Critical Removal Action at AOC 4
Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA
Privileged and Confidential

Grid Cell	Sub Area	Removal Method	Material Type Remaining	Excavation/Sample Collection Comments	Decision Criteria: Confirmation Samples <1 X TEP or <10 X TEP	Target Endpoint Criteria Met?	Analytical Results Comments
E3	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for Dioxin/Furan TEQ and total PCBs.
E4	A	mechanical	native		10 X TEP	passed 1x criteria	
E5	A	vacuum	native	Vacuum removal of debris conducted.	10 X TEP	passed 1x criteria	
E6	A	vacuum	native	Vacuum removal of debris conducted.	10 X TEP	passed 1x criteria	
E6/7	E	mechanical	disturbed alluvium		1 X TEP	passed 1x criteria	
F1 - Slope	A	mechanical	native		10 X TEP	passed 1x criteria	
F2	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for total PCBs.
F3	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for total PCBs.
F4	A	vacuum	native	Portion of cell in gully was vacuum excavated to rock.	10 X TEP	passed 1x criteria	
F5	A	mechanical	native	Cell was vacuum excavated. Portion of cell in gully was vacuum excavated to rock.	10 X TEP	passed 1x criteria	
F6	A	mechanical	native	Cells were mechanically excavated with long-reach excavator from Area E below. Returned and vacuumed cell to bedrock.	10 X TEP	NA -- removal to bedrock	
F6/7	E	mechanical	disturbed alluvium		1 X TEP	NA -- removal to bedrock	
G1 - Slope	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for total PCBs.
G2	A	mechanical	native		10 X TEP	NA -- removal to bedrock	

TABLE F-1

Grid Results Summary Table

Implementation Report for the Time-Critical Removal Action at AOC 4

Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA

Privileged and Confidential

Grid Cell	Sub Area	Removal Method	Material Type Remaining	Excavation/Sample Collection Comments	Decision Criteria: Confirmation Samples <1 X TEP or <10 X TEP	Target Endpoint Criteria Met?	Analytical Results Comments
G3	A	mechanical	native		10 X TEP	NA -- removal to bedrock	
G4	A	no	native	Minimal excavation was conducted in this cell.	10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for total PCBs.
G5	A	mechanical	native	Cells were mechanically excavated with long-reach excavator from Area E below.	10 X TEP	passed 1x criteria	
G6	A	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for total PCBs.
G6/7	E	mechanical	disturbed alluvium		1 X TEP	NA -- removal to bedrock	Removed to coarse boulders in ravine bed on bedrock, fines removed by vacuum
H2	B	vacuum	native		10 X TEP	NA -- removal to bedrock	
H3	B	vacuum	native		10 X TEP	NA -- removal to bedrock	
H4	B	no	native	Minimal excavation was conducted in this cell.	10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for total PCBs.
H5	C	no	native	Cells were mechanically excavated with long-reach excavator from Area E below after cells failed screening on 07/27/10. H5 was resampled on 08/05/10. H6 was resampled on 08/10/10 and failed screening for PCBs again. Vacuumed H6 to rock on 10/8/10.	10 X TEP	passed 1x criteria	
H6	C	no	native		10 X TEP	NA -- removal to bedrock	

TABLE F-1

Grid Results Summary Table

Implementation Report for the Time-Critical Removal Action at AOC 4

Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA

Privileged and Confidential

Grid Cell	Sub Area	Removal Method	Material Type Remaining	Excavation/Sample Collection Comments	Decision Criteria: Confirmation Samples <1 X TEP or <10 X TEP	Target Endpoint Criteria Met?	Analytical Results Comments
H6/7	E	mechanical	disturbed alluvium		1 X TEP	NA -- removal to bedrock	
I2	B	vacuum	native		10 X TEP	NA -- removal to bedrock	
I3	B	vacuum	native		10 X TEP	NA -- removal to bedrock	
I4	B	mechanical	native		10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for total PCBs.
I5	C	yes	native		10 X TEP	passed 1x criteria	
I6	C	yes	native		10 X TEP	passed 1x criteria	
I6/7	E	mechanical	disturbed alluvium		1 X TEP	passed 1x criteria	
J2	B	mechanical	disturbed alluvium		1 X TEP	passed 1x criteria	
J3	B	mechanical	native	Re-excavated on 5/17/10 and re-sampled on 5/17/10. Screening samples were collected from loose material. After re-excavation, the remaining material was native.	10 X TEP	passed 10x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for Dioxin/Furan TEQ.
J4	B	mechanical	native	Grid cell is mostly rock with a small wedge of soil in the bottom left corner.	10 X TEP	passed 1x criteria	
J5	C	yes	native		10 X TEP	passed 1x criteria	
J6	D	yes	native		10 X TEP	passed 1x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for Dioxin/Furan TEQ.

TABLE F-1
Grid Results Summary Table
Implementation Report for the Time-Critical Removal Action at AOC 4
Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA
Privileged and Confidential

Grid Cell	Sub Area	Removal Method	Material Type Remaining	Excavation/Sample Collection Comments	Decision Criteria: Confirmation Samples <1 X TEP or <10 X TEP	Target Endpoint Criteria Met?	Analytical Results Comments
J6/7	E	mechanical	disturbed alluvium		1 X TEP	passed 1x criteria	
K2	B	mechanical	native		10 X TEP	passed 1x criteria	
K3	B	mechanical	disturbed alluvium		1 X TEP	passed 1x criteria	
K4	B	mechanical	native	Grid cell is mostly rock with some soil remaining around a bush that was left in place during removal.	10 X TEP	passed 1x criteria	Screening sample passed 1x criteria for all constituents, but confirmation sample fell between 1x and 10x criteria for Dioxin/Furan TEQ.
K5	C	yes	native		10 X TEP	passed 1x criteria	
K6	D	yes	native		10 X TEP	passed 1x criteria	
K7	D	yes	native		10 X TEP	passed 1x criteria	
K7/8	E	mechanical	disturbed alluvium		1 X TEP	NA -- removal to bedrock	
L1	B	mechanical	disturbed alluvium		1 X TEP	passed 1x criteria	
L2	B	mechanical	disturbed alluvium		1 X TEP	passed 1x criteria	
L3	B	mechanical	disturbed alluvium		1 X TEP	passed 1x criteria	
L4	B	mechanical	disturbed alluvium	Screening samples were collected from loose material. Although there is no apparent debris or staining, this material appears to be disturbed alluvium that was used to fill a topographic depression.	1 X TEP	passed 1x criteria	
L5	C	yes	native		10 X TEP	passed 1x criteria	
L6	D	yes	native		10 X TEP	passed 1x criteria	
L7	D	yes	native		10 X TEP	passed 1x criteria	
L7/8	E	mechanical	disturbed alluvium		1 X TEP	passed 1x criteria	
M1	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	

TABLE F-1
Grid Results Summary Table
Implementation Report for the Time-Critical Removal Action at AOC 4
Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA
Privileged and Confidential

Grid Cell	Sub Area	Removal Method	Material Type Remaining	Excavation/Sample Collection Comments	Decision Criteria: Confirmation Samples <1 X TEP or <10 X TEP	Target Endpoint Criteria Met?	Analytical Results Comments
M2	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
M3	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
M4	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
M5	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
M6	D	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
M7	D	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
M8	D	yes	native		10 X TEP	passed 1x criteria	
M7/8	E	mechanical	disturbed alluvium		1 X TEP	passed 1x criteria	
M8/9	E	mechanical	disturbed alluvium		1 X TEP	passed 1x criteria	
M10	E	no	disturbed alluvium		1 X TEP	passed 1x criteria	
N1	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
N2	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
N3	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
N4	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
N5	C	yes	disturbed alluvium	Sampled 7/8/10	1 X TEP	passed 1x criteria	
N5/6	C	yes	disturbed alluvium	Resampled 10/5/10 because Area C removal area expanded and so did Cell N5.	1 X TEP	passed 1x criteria	
N6	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	Dioxin TCDD TEQ (64 ng/kg)did not pass 1x criterion (50 ng/kg) but does pass as both ProUCL 95th percentile upper confidence limits: 25.3 ng/kg for all disturbed alluvium AOC 4 samples and 43 ng/kg for all AOC 4 soil samples
N7	D	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
N8	D	yes	disturbed alluvium		1 X TEP	passed 1x criteria	

TABLE F-1
Grid Results Summary Table
Implementation Report for the Time-Critical Removal Action at AOC 4
Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA
Privileged and Confidential

Grid Cell	Sub Area	Removal Method	Material Type Remaining	Excavation/Sample Collection Comments	Decision Criteria: Confirmation Samples <1 X TEP or <10 X TEP	Target Endpoint Criteria Met?	Analytical Results Comments
O2	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
O3	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
O4	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
O5	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
O6	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
O7	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
O8	D	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
P3	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
P4	C	yes	disturbed alluvium	Yellow-stained rock/soil was observed. This cell is the north side of the large excavation in Northern Area C. Yellow staining still observed 11/18/10 so continued removal and resampled on 11/19/10.	1 X TEP	passed 1x criteria	
P5	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
P6	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
P7	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	

TABLE F-1
Grid Results Summary Table
Implementation Report for the Time-Critical Removal Action at AOC 4
Pacific Gas & Electric Company, Topock Compressor Station, Needles, CA
Privileged and Confidential

Grid Cell	Sub Area	Removal Method	Material Type Remaining	Excavation/Sample Collection Comments	Decision Criteria: Confirmation Samples <1 X TEP or <10 X TEP	Target Endpoint Criteria Met?	Analytical Results Comments
P8	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
Q4	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	Dioxin TCDD TEQ (53 ng/kg)did not pass 1x criterion (50 ng/kg) but does pass as both ProUCL 95th percentile upper confidence limits: 25.3 ng/kg for all disturbed alluvium AOC 4 samples and 43 ng/kg for all AOC 4 soil samples
Q5	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	Dioxin TCDD TEQ (58 ng/kg) did not pass 1x criterion (50 ng/kg) but does pass as both ProUCL 95th percentile upper confidence limits: 25.3 ng/kg for all disturbed alluvium AOC 4 samples and 43 ng/kg for all AOC 4 soil samples
Q6	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
Q7	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
Q8	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
R5	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
R6	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	
R7	C	yes	disturbed alluvium		1 X TEP	passed 1x criteria	

Area A Photo Log

Cell A-1: Native Alluvium

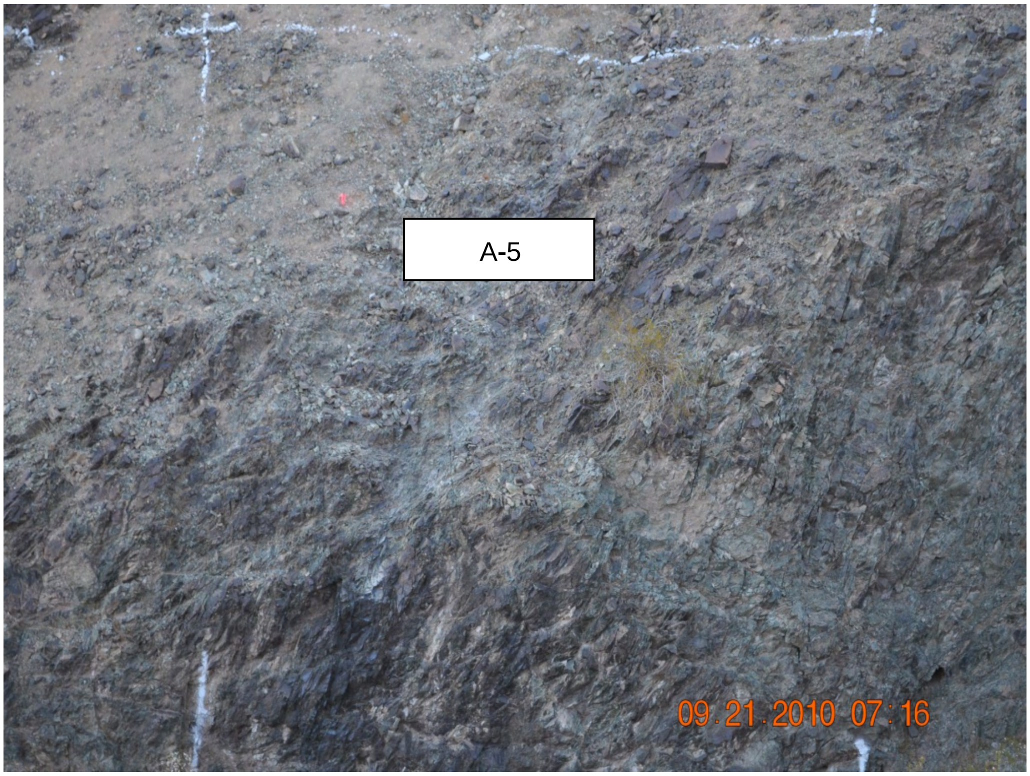
Cell A-2: Native Alluvium

Area A Photo Log

Cell A-3: Native Alluvium

Cell A-4: Native Alluvium

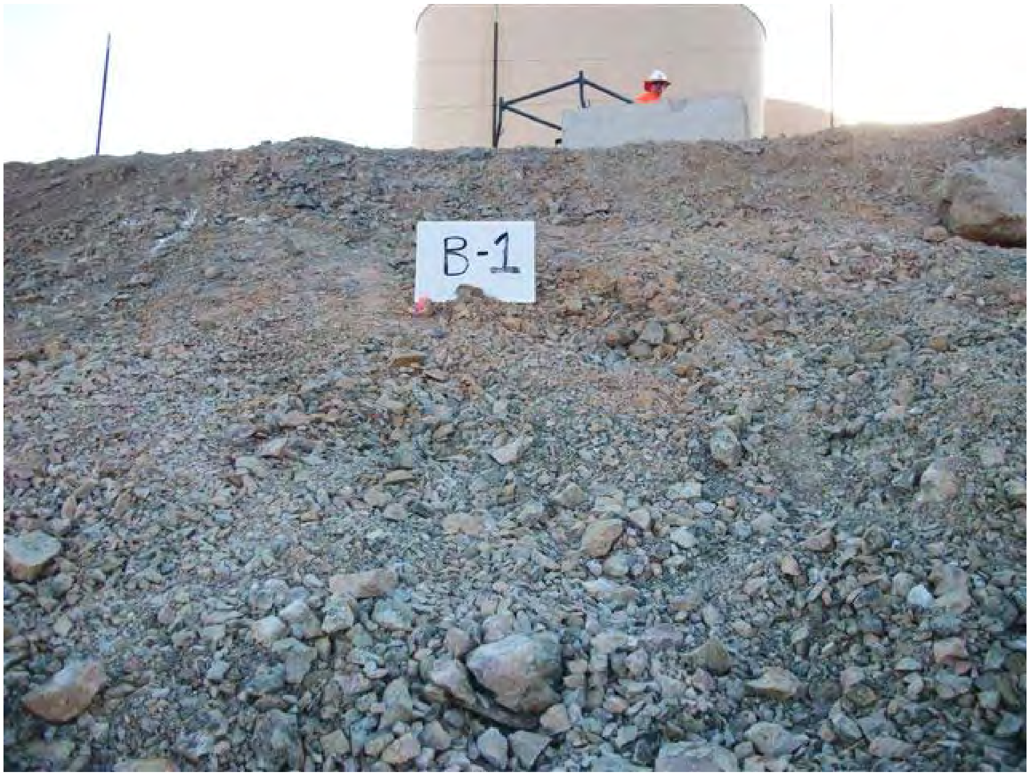
Area A Photo Log



Cell A-5: Native Alluvium

Cell A-6: Native Alluvium

Area A Photo Log



Cell B-1: Native Alluvium

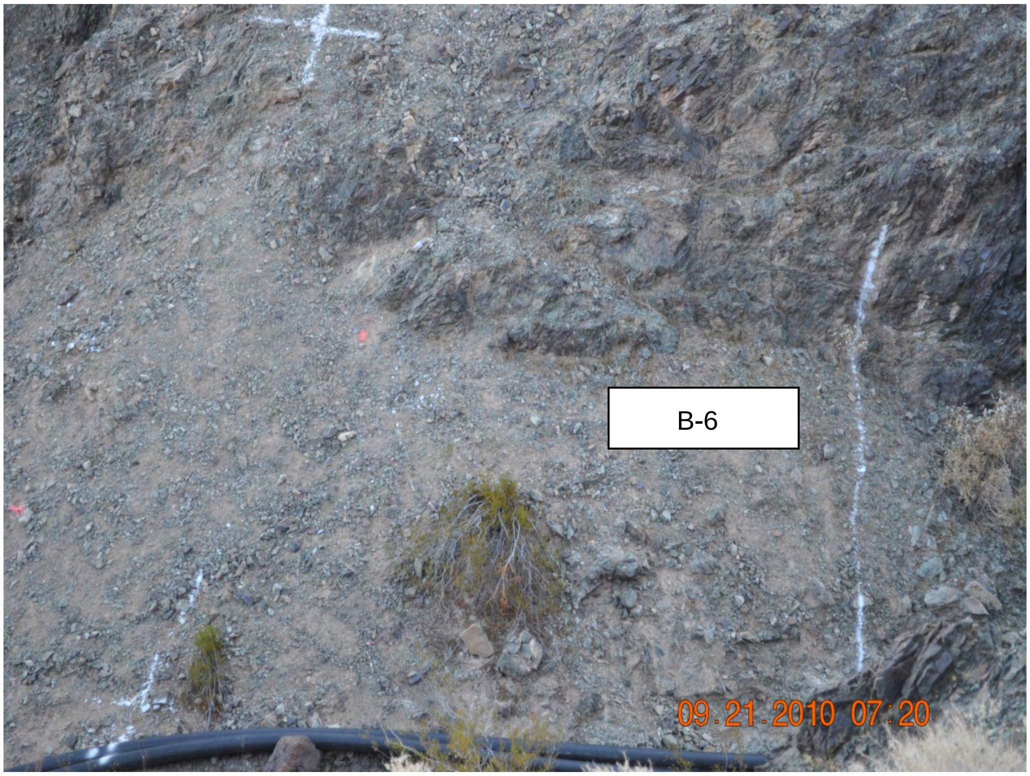
Cell B-2: Native Alluvium

Area A Photo Log

Cell B-3: Native Alluvium

Cell B-4: Native Alluvium

Cell B-5: Native Alluvium



Cell B-6: Native Alluvium

Area A Photo Log

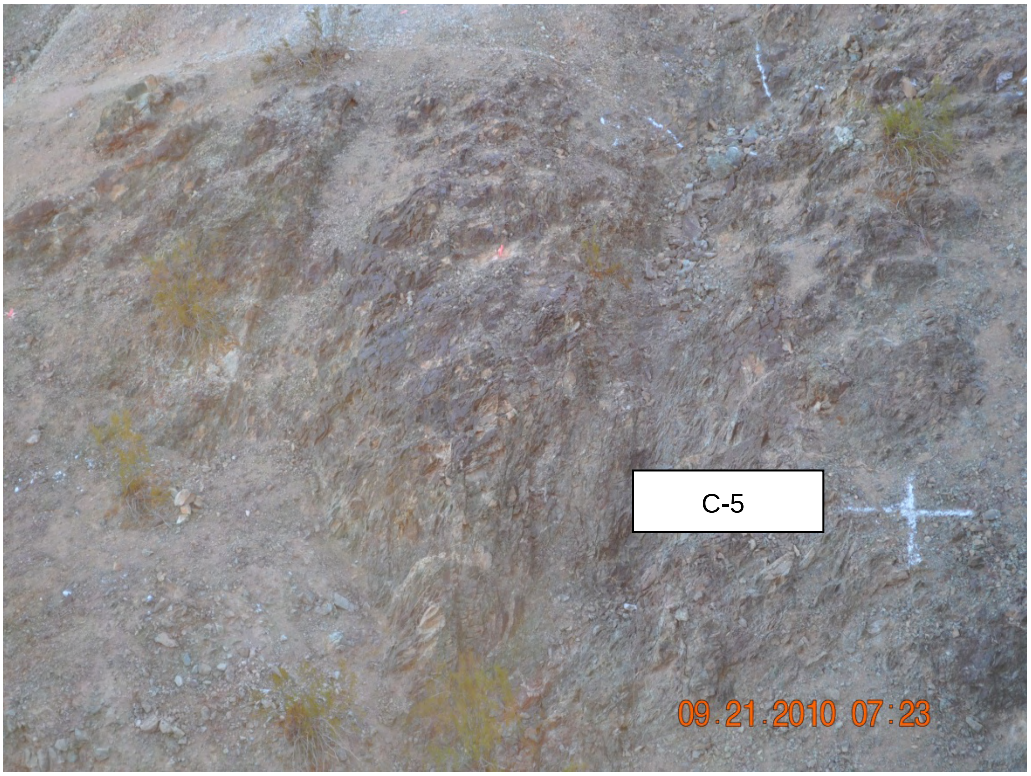
Cell C-1: Native Alluvium

Cell C-2: Native Alluvium

Area A Photo Log

Cell C-3: Native Alluvium

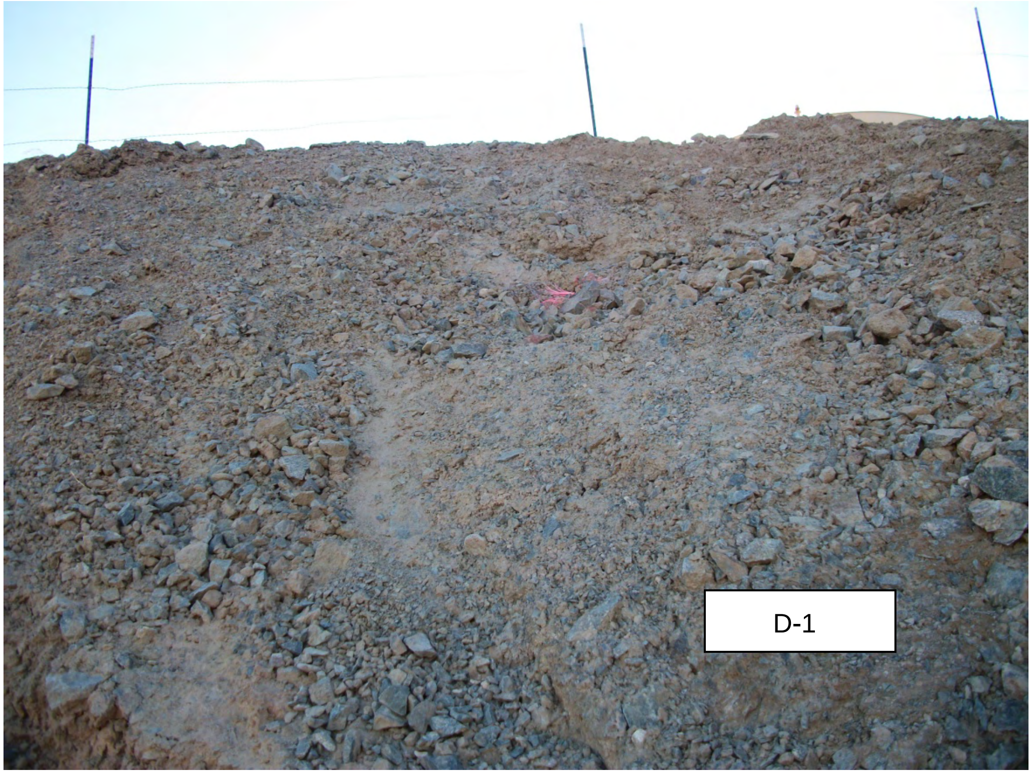
Cell C-4: Native Alluvium



Cell C-5: Native Alluvium

Cell C-6: Native Alluvium

Area A Photo Log



Cell D-1: Native Alluvium

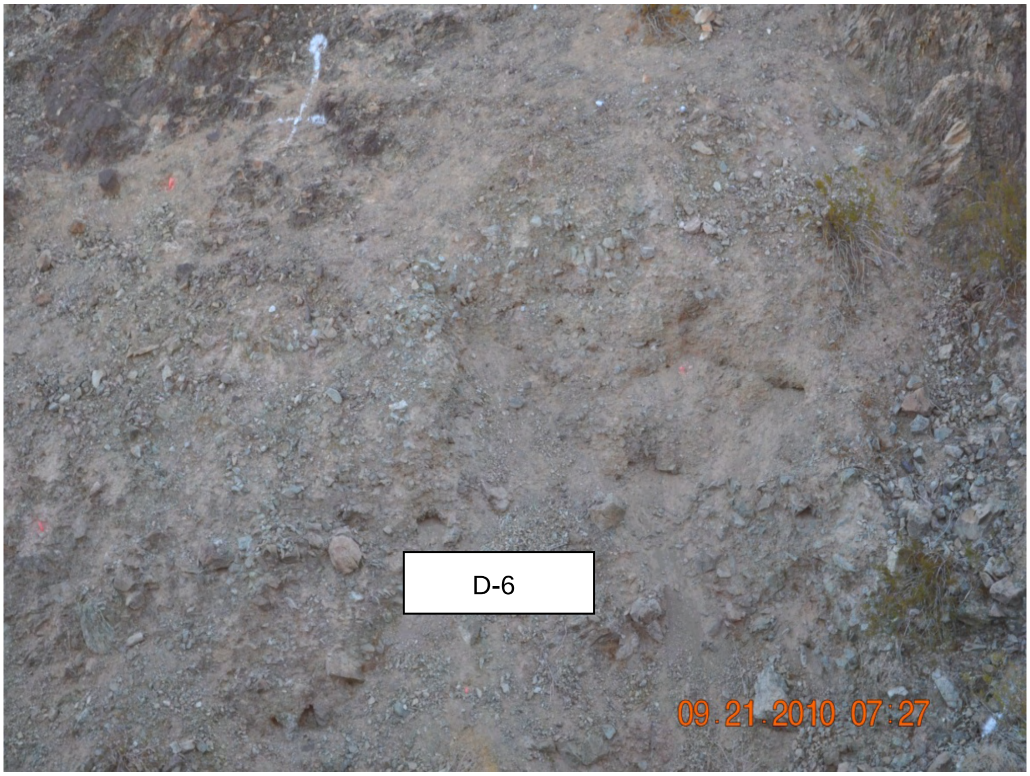
Cell D-2: Native Alluvium

Area A Photo Log

Cell D-3: Native Alluvium

Cell D-4: Native Alluvium

Cell D-5: Native Alluvium



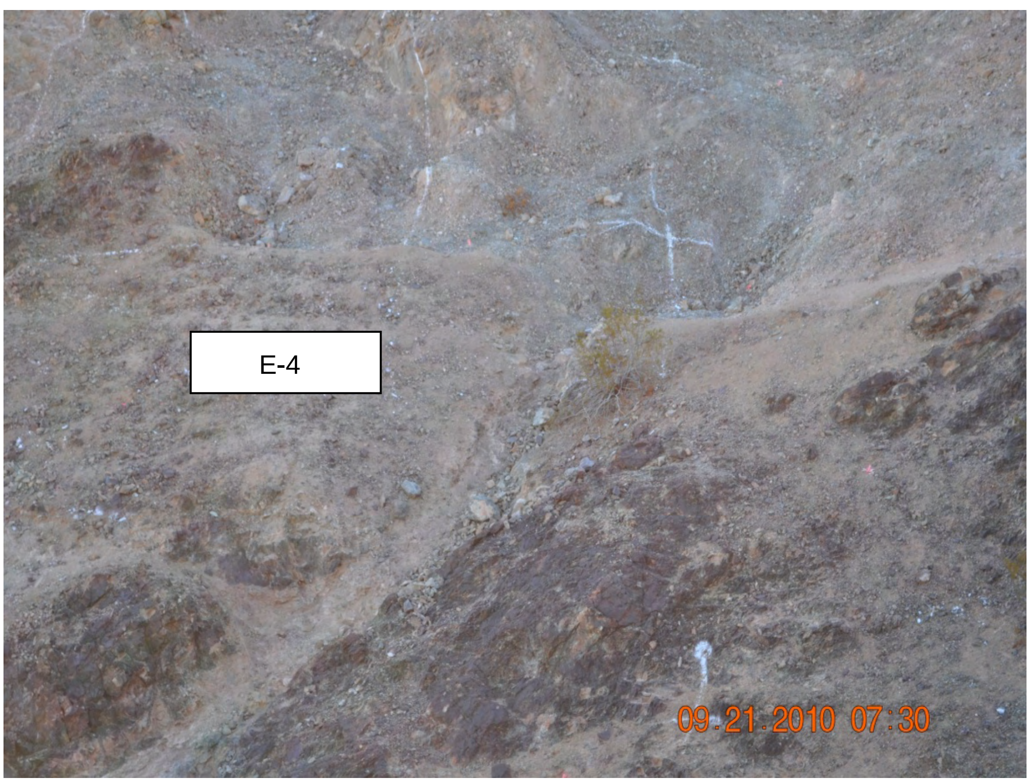
Cell D-6: Native Alluvium

Cell E-1: Native Alluvium

Cell E-2: Native Alluvium

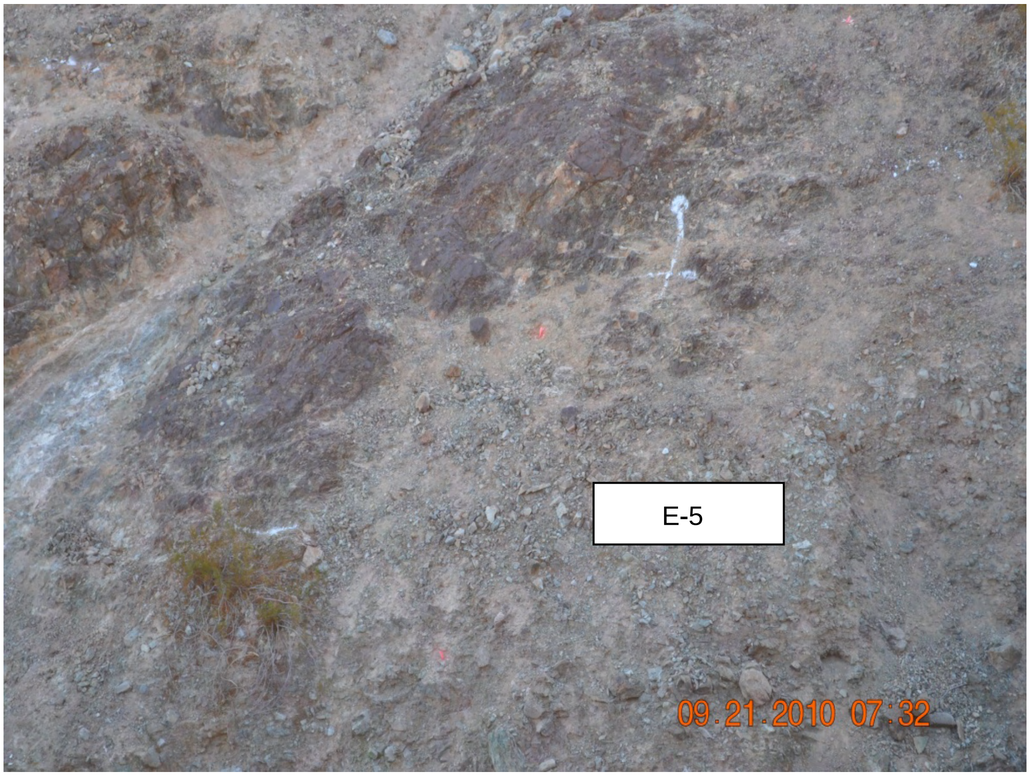
Area A Photo Log

Cell E-3: Native Alluvium



Cell E-4: Native Alluvium

Area A Photo Log



Cell E-5: Native Alluvium

Cell E-6: Native Alluvium

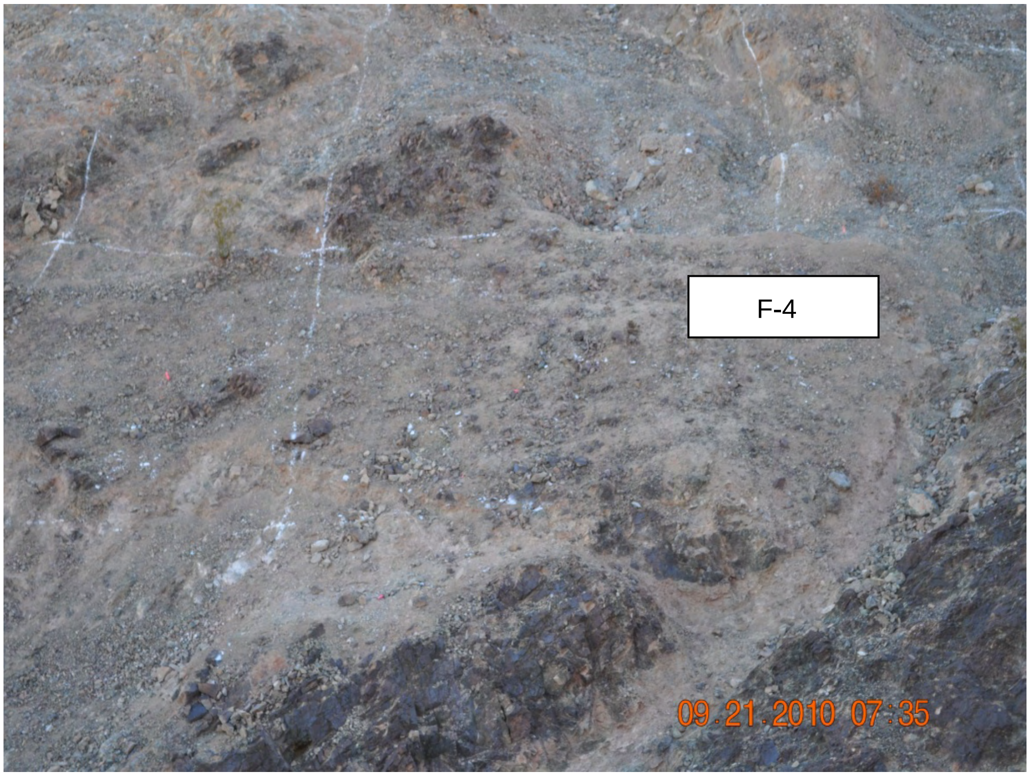
Area A Photo Log

Cell F-1: Native Alluvium

Cell F-2: Native Alluvium

Area A Photo Log

Cell F-3: Native Alluvium



Cell F-4: Native Alluvium

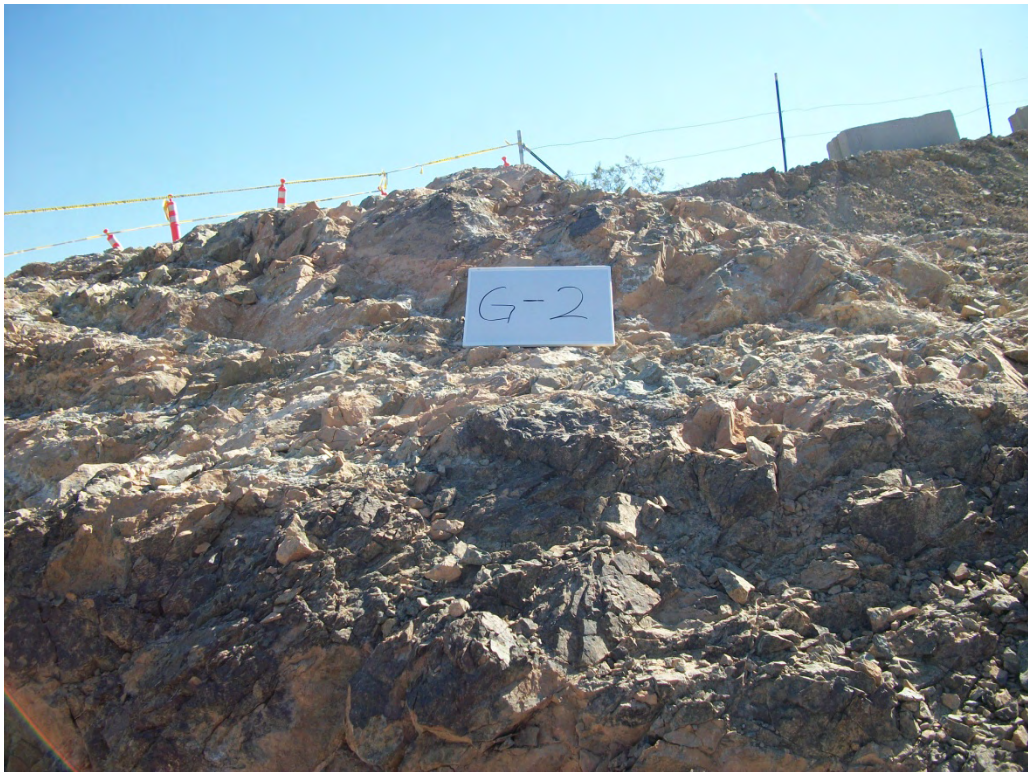
Area A Photo Log

Cell F-5: Native Alluvium

Cell F-6: Native Alluvium (vacuumed down to bedrock)

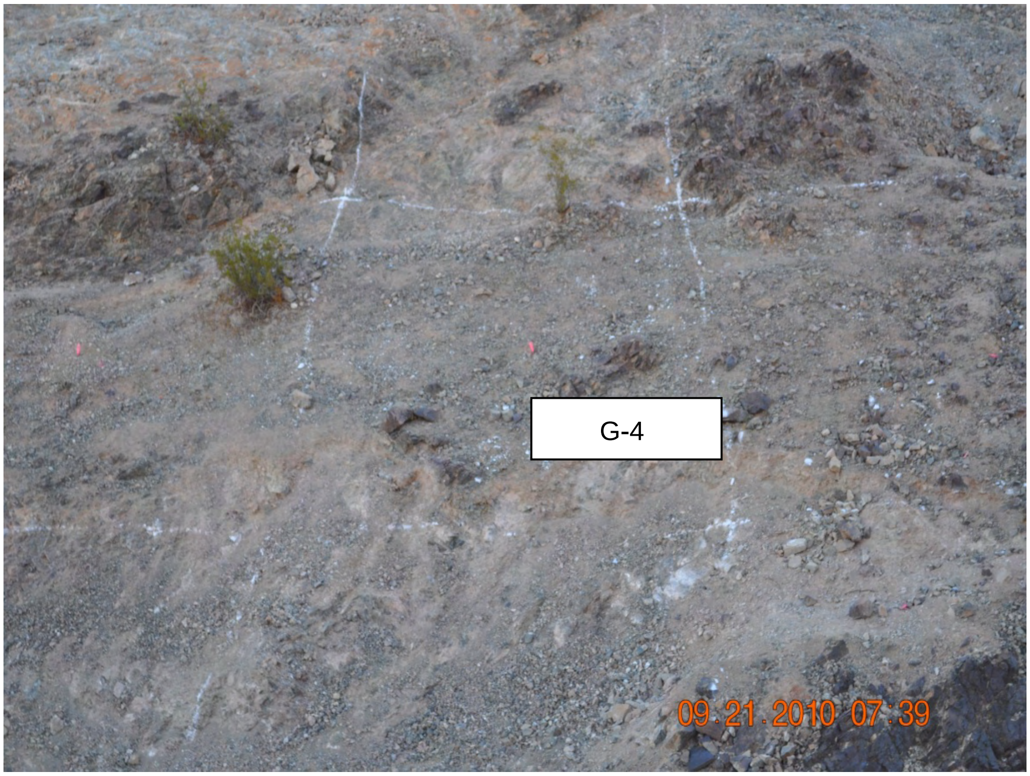
Area A Photo Log

Cell G-1: Native Alluvium

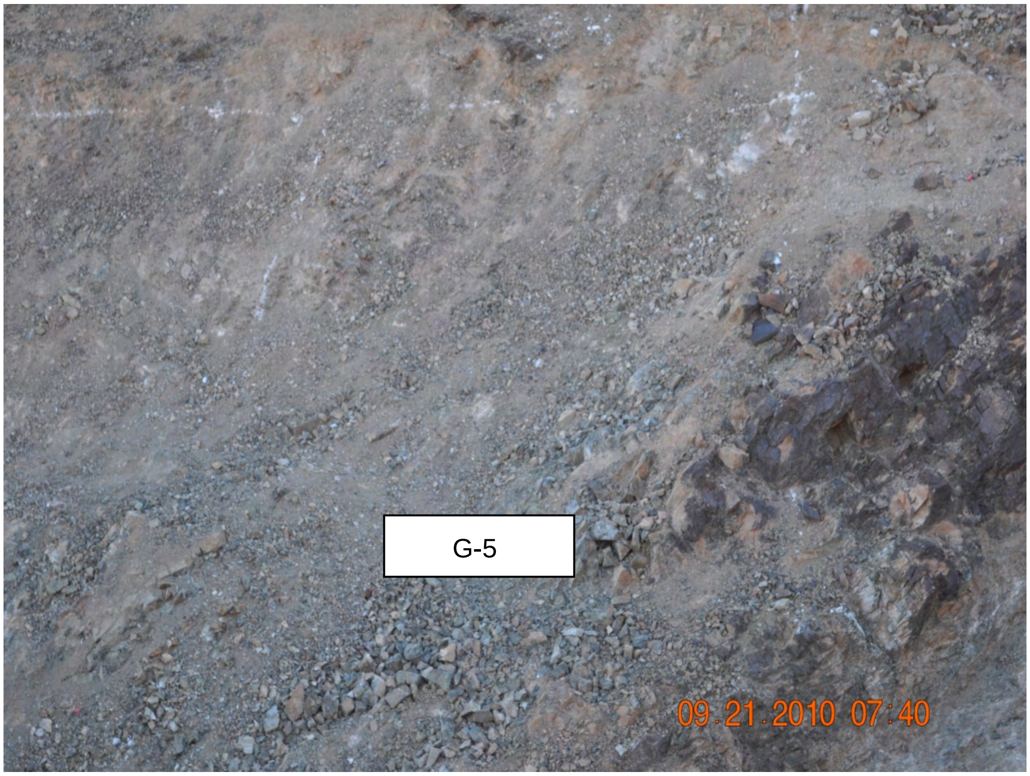


Cell G-2: Native Alluvium (vacuumed down to bedrock)

Cell G-3: Native Alluvium (vacuumed down to bedrock)



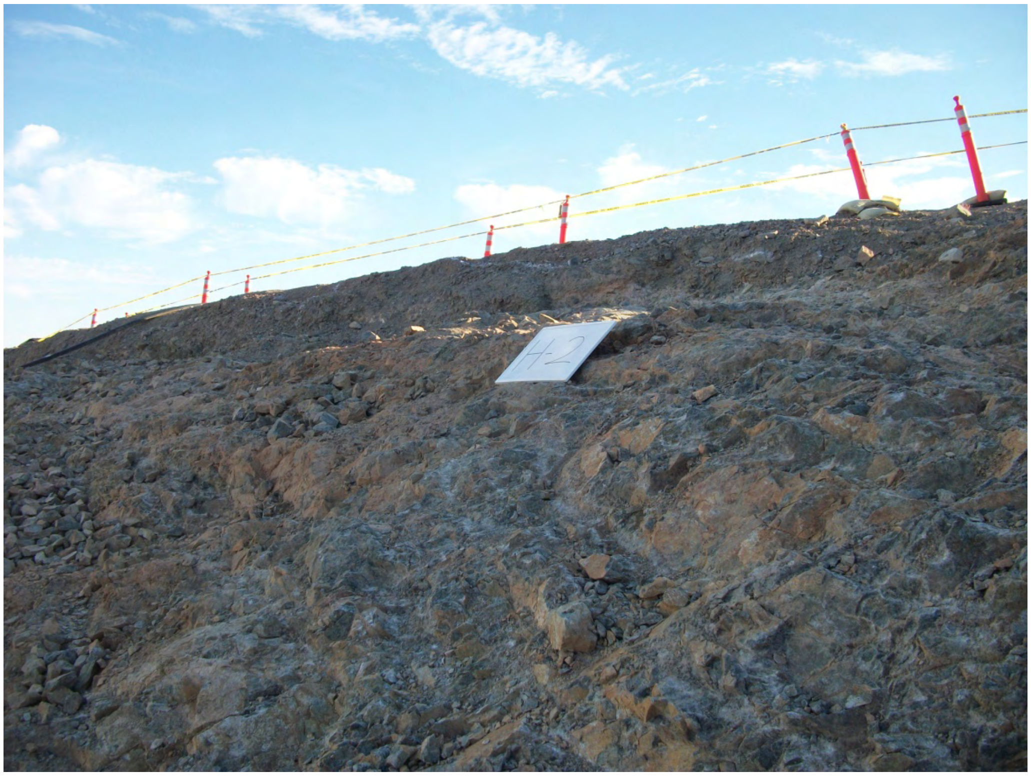
Cell G-4: Native Alluvium



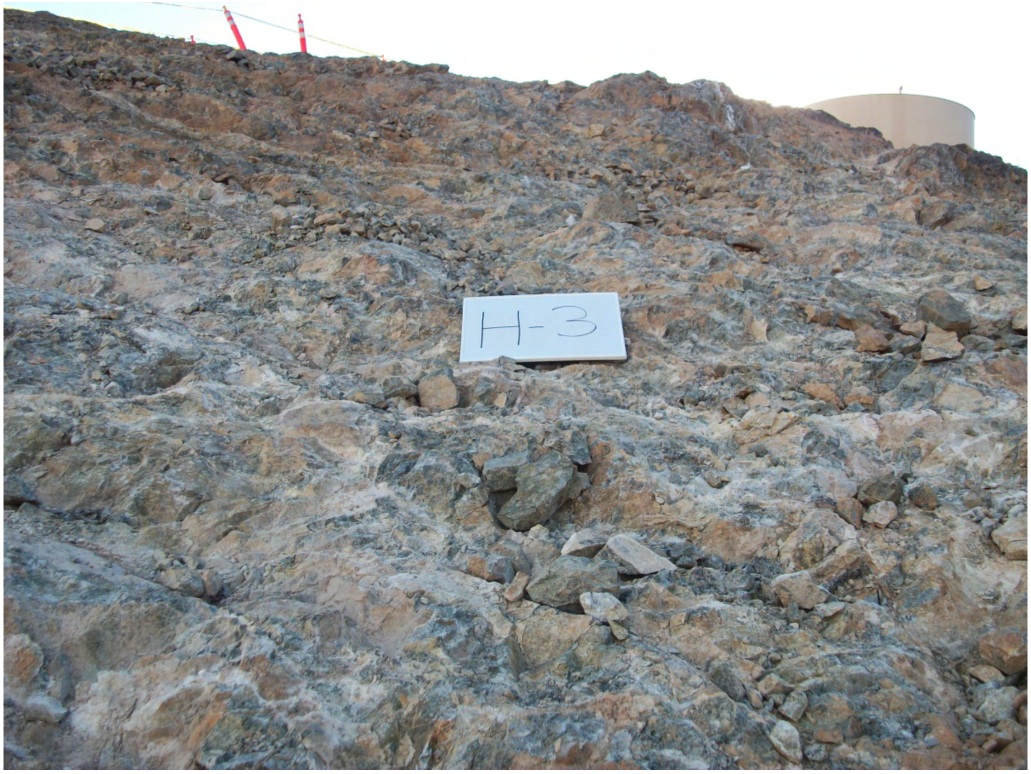
Cell G-5: Native Alluvium

Cell G-6: Native Alluvium

Area B Photo Log



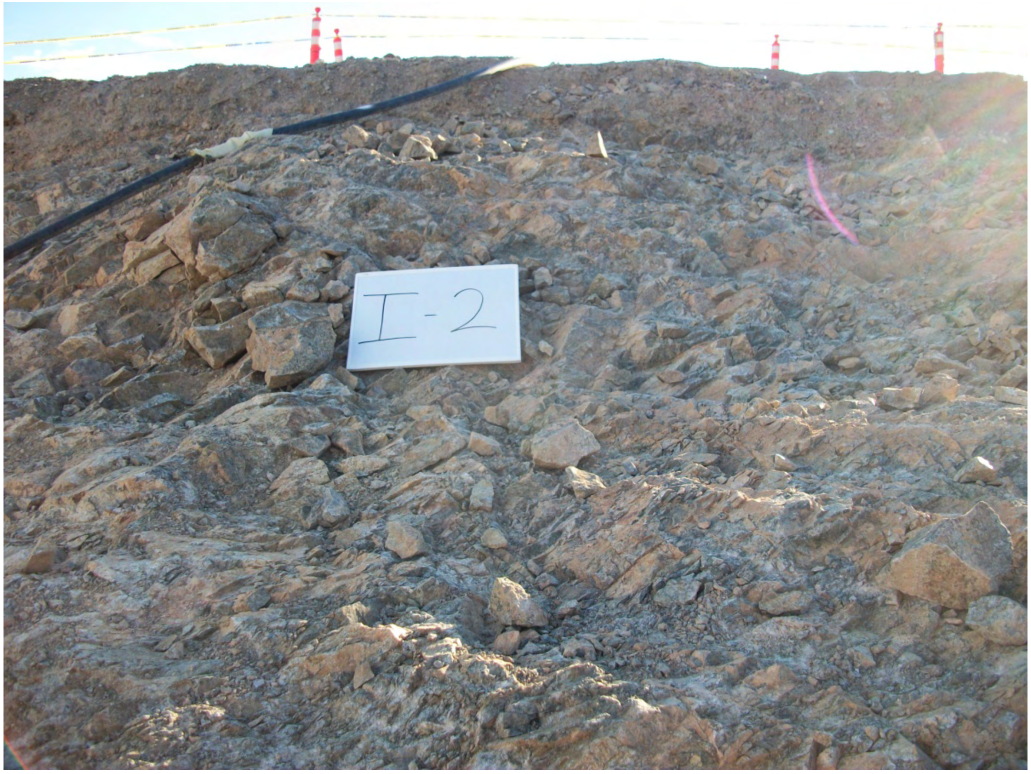
Cell H-2: Native Alluvium (vacuumed down to bedrock)



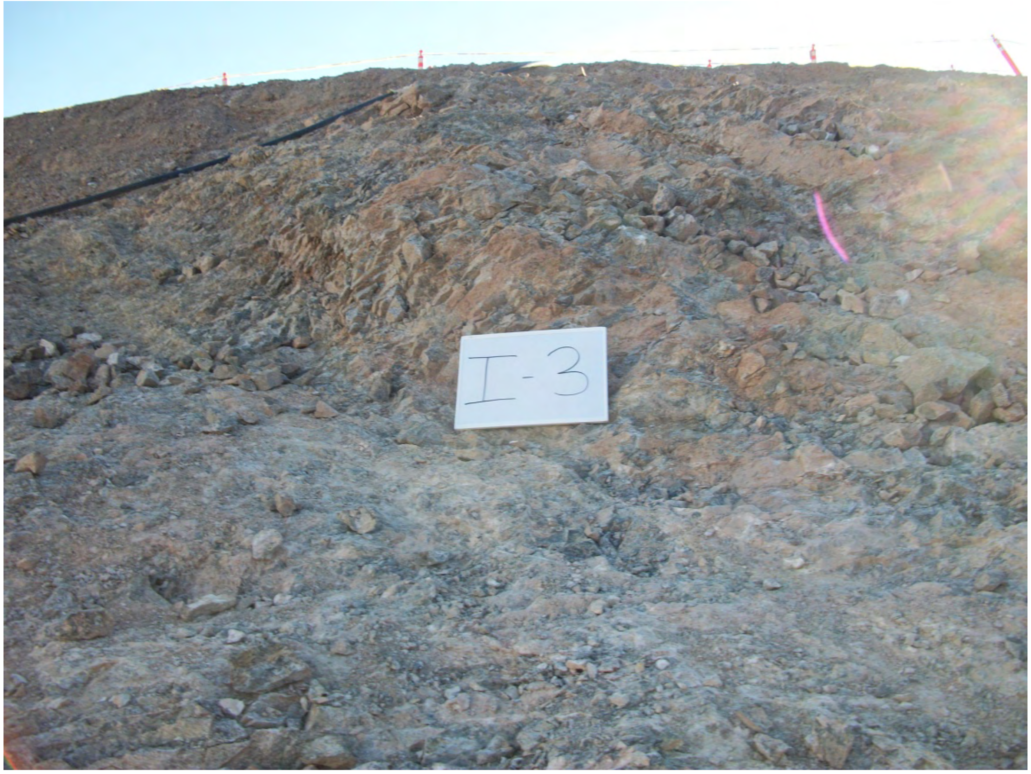
Cell H-3: Native Alluvium (vacuumed down to bedrock)

Area B Photo Log

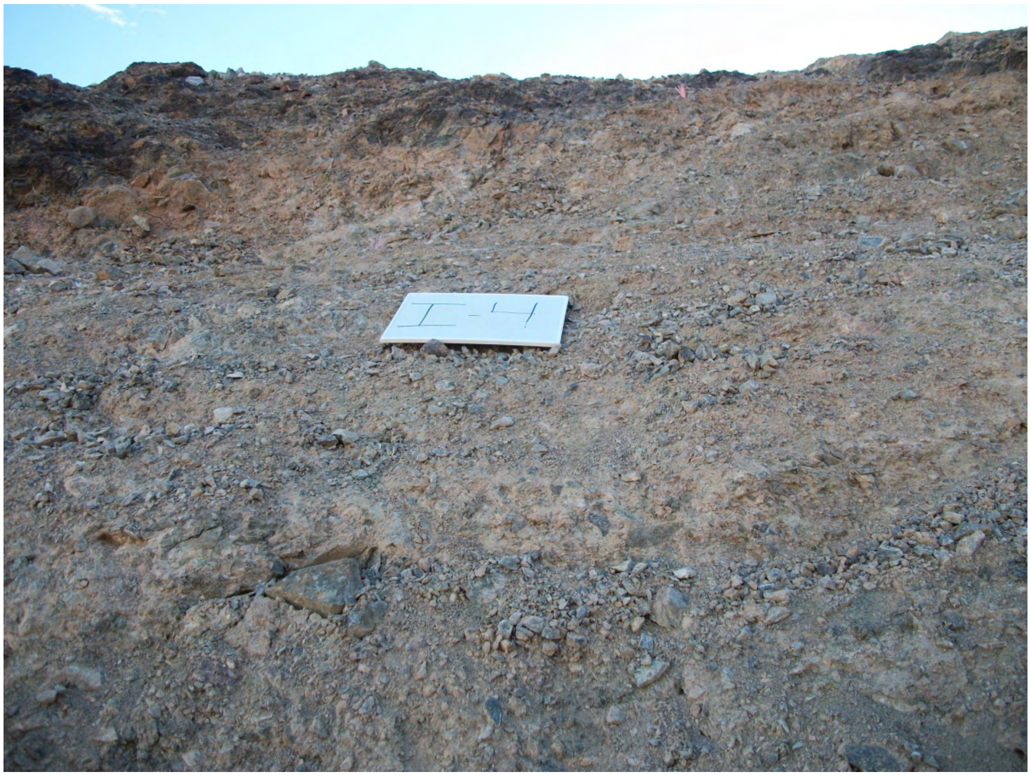
Cell H-4: Native Alluvium



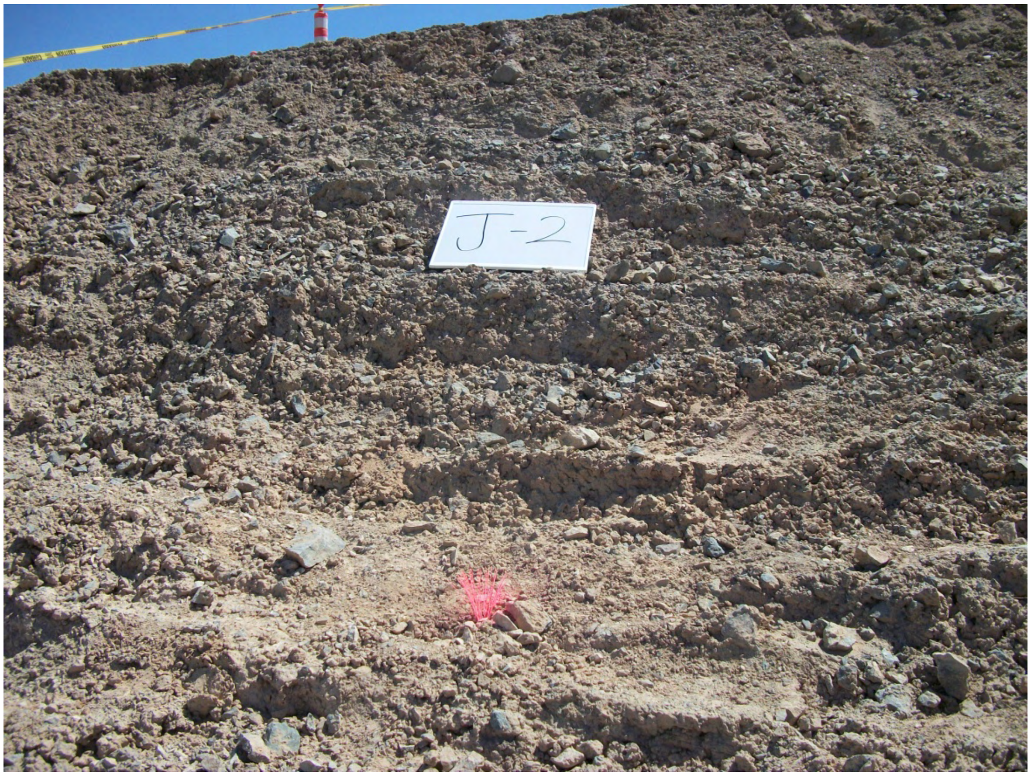
Cell I-2: Native Alluvium (vacuumed down to bedrock)



Cell I-3: Native Alluvium (vacuumed down to bedrock)



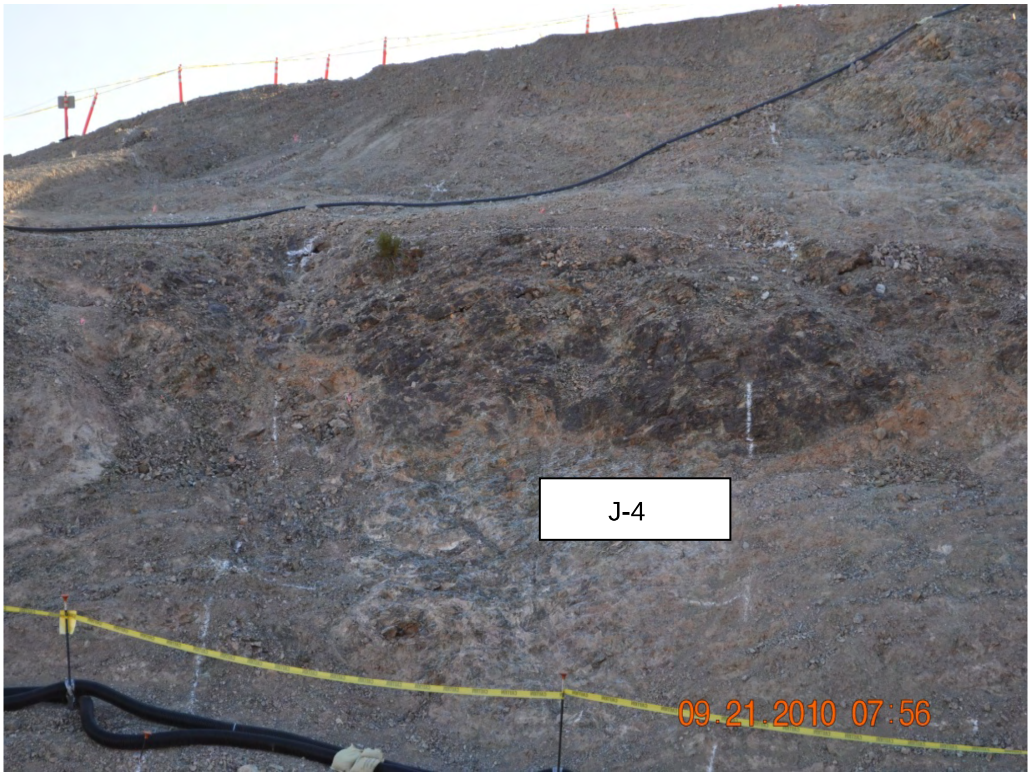
Cell I-4: Native Alluvium



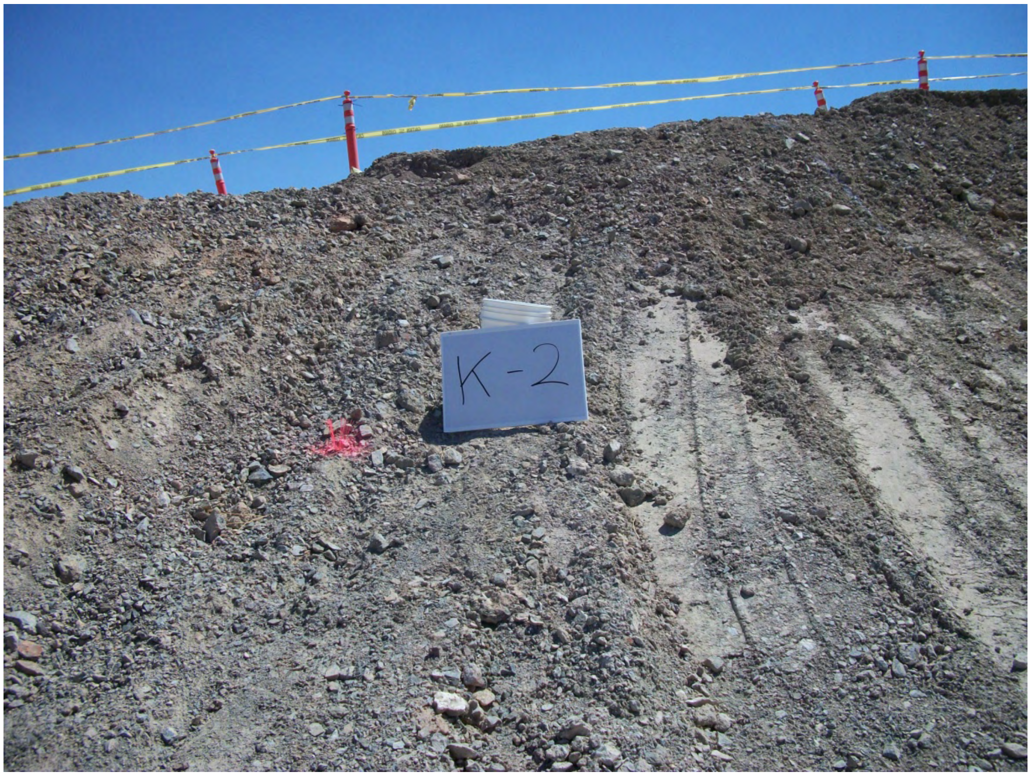
Cell J-2: Disturbed Alluvium

Cell J-3: Native Alluvium

Area B Photo Log



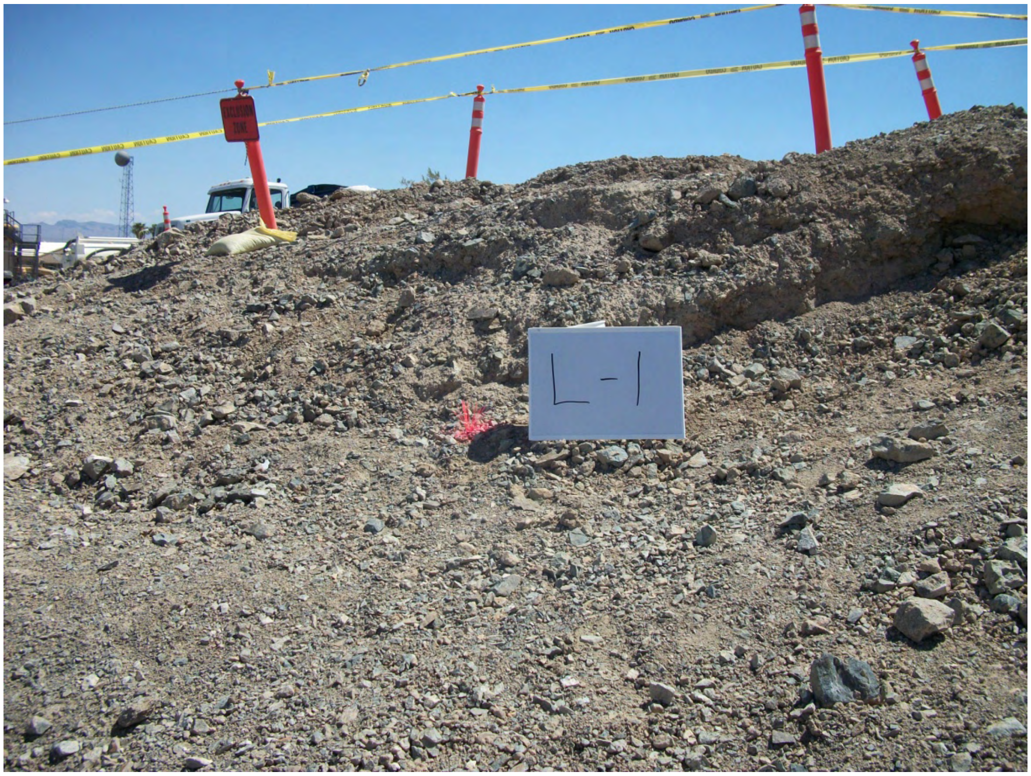
Cell J-4: Native Alluvium



Cell K-2: Native Alluvium

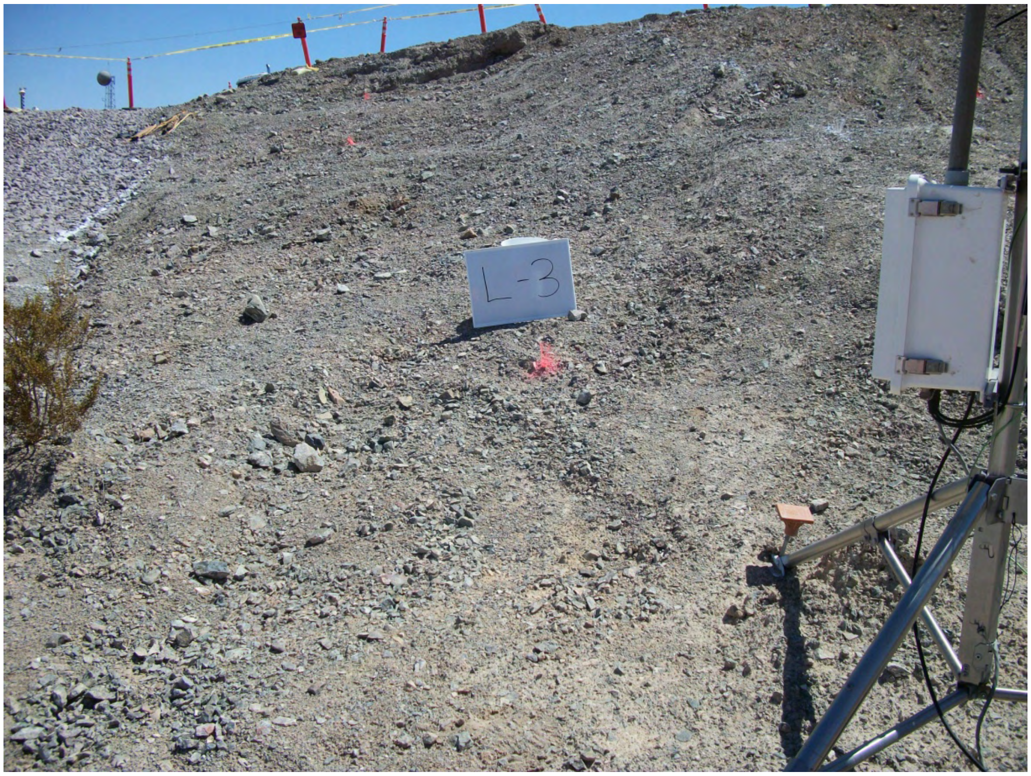
Cell K-3: Disturbed Alluvium

Cell K-4: Native Alluvium

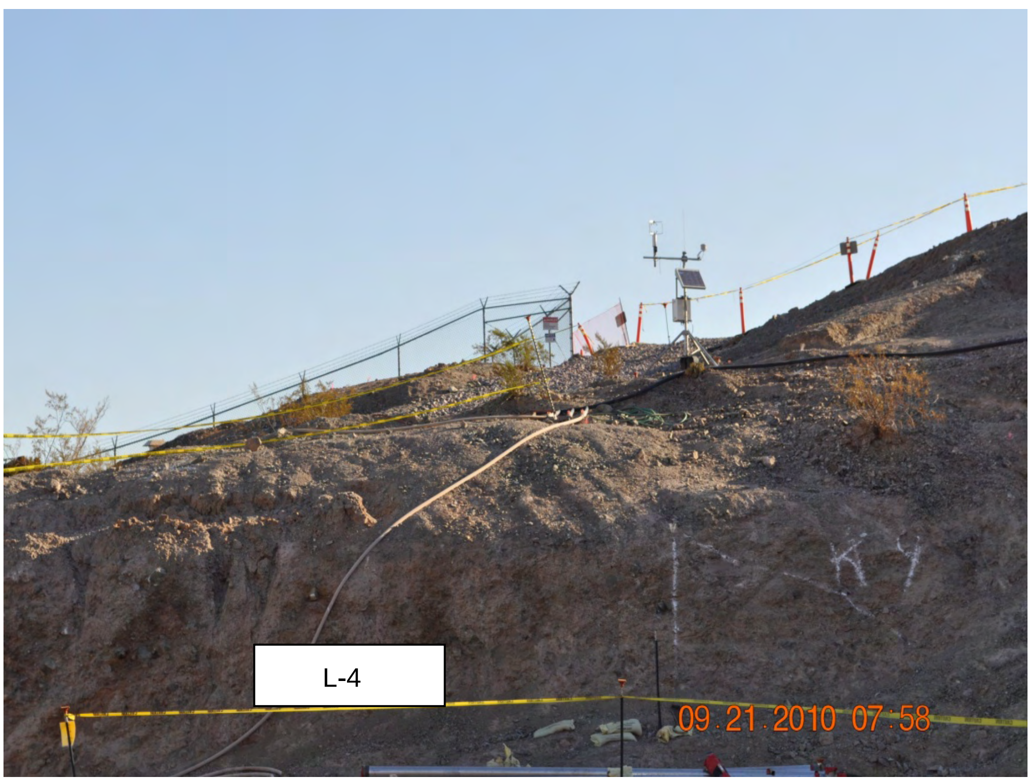


Cell L-1: Disturbed Alluvium

Cell L-2: Disturbed Alluvium



Cell L-3: Disturbed Alluvium

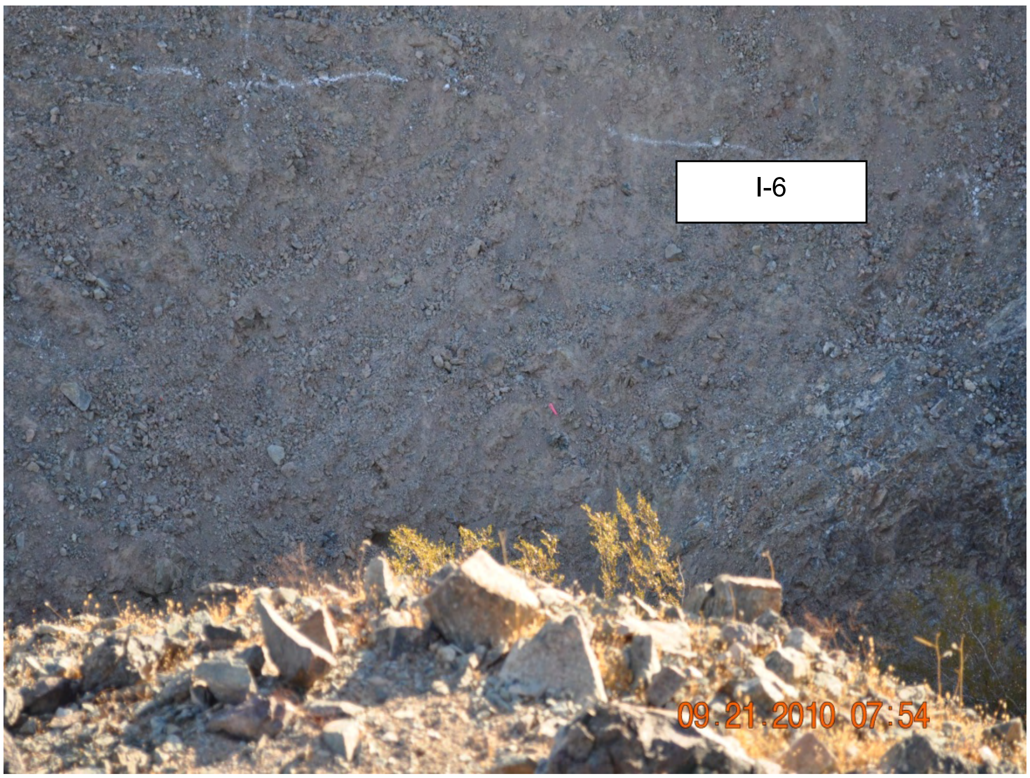


Cell L-4: Disturbed Alluvium

Cell H-5: Native Alluvium

Cell H-6: Native Alluvium

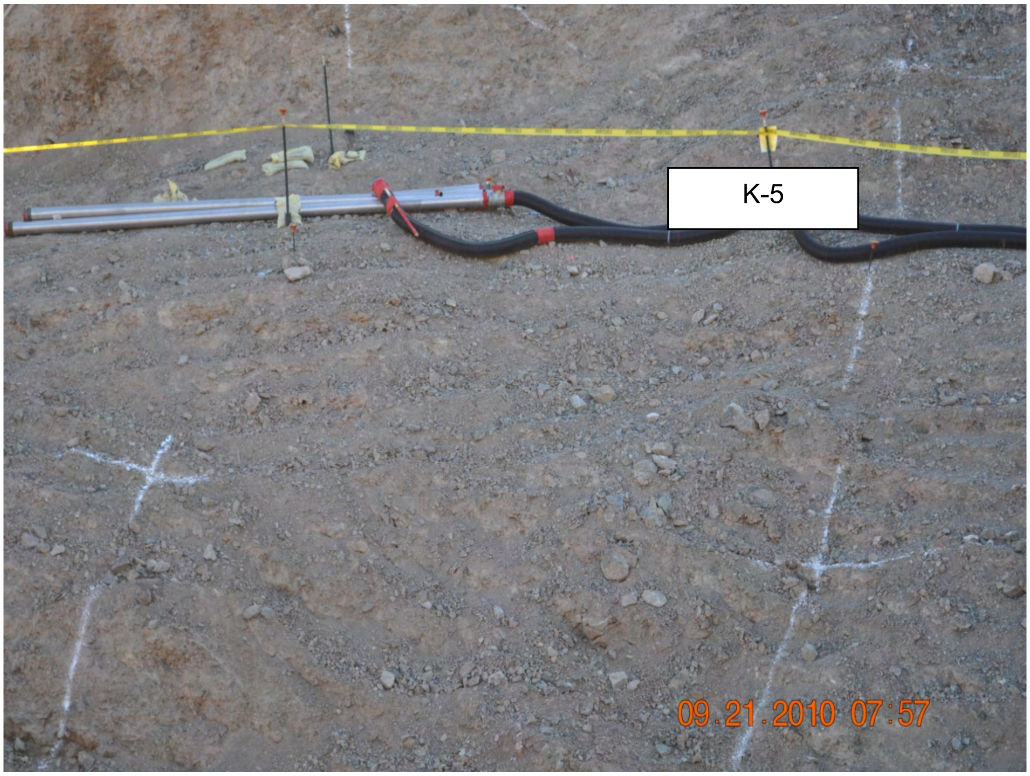
Cell I-5: Native Alluvium



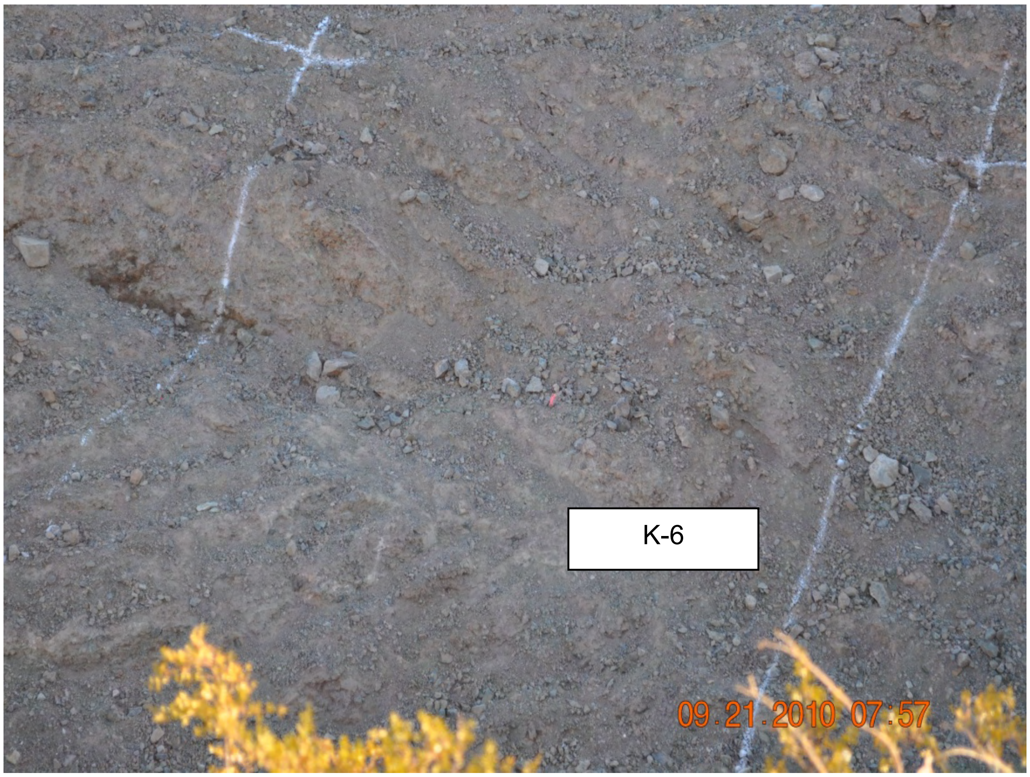
Cell I-6: Native Alluvium

Cell J-5: Native Alluvium

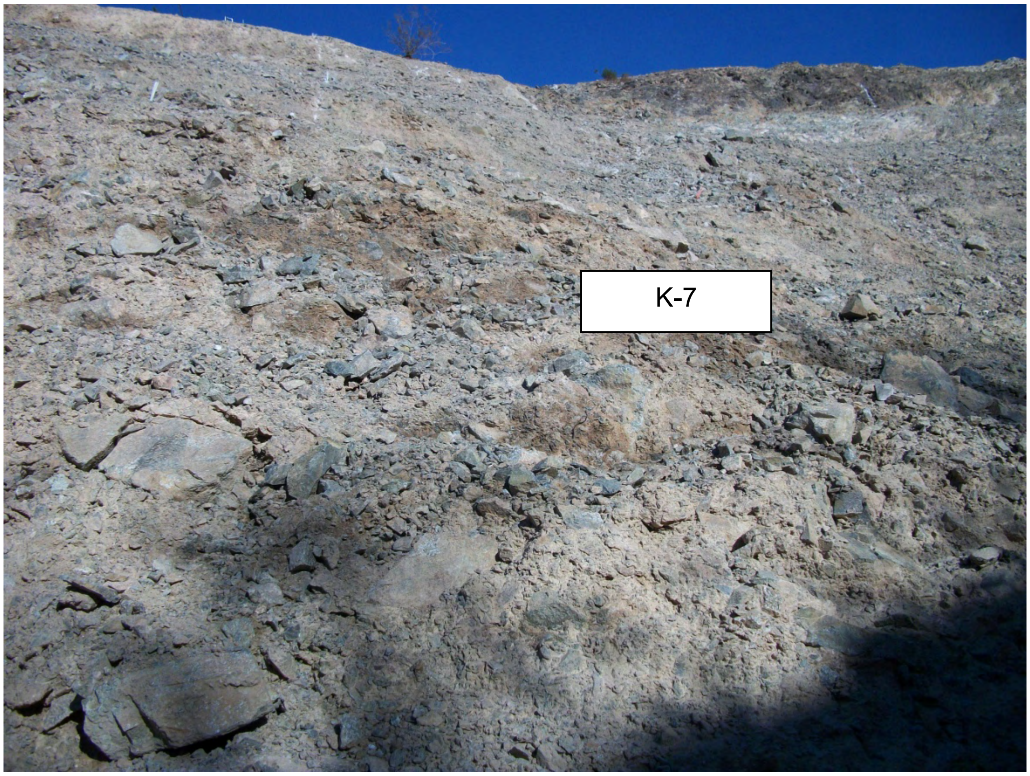
Cell J-6: Native Alluvium



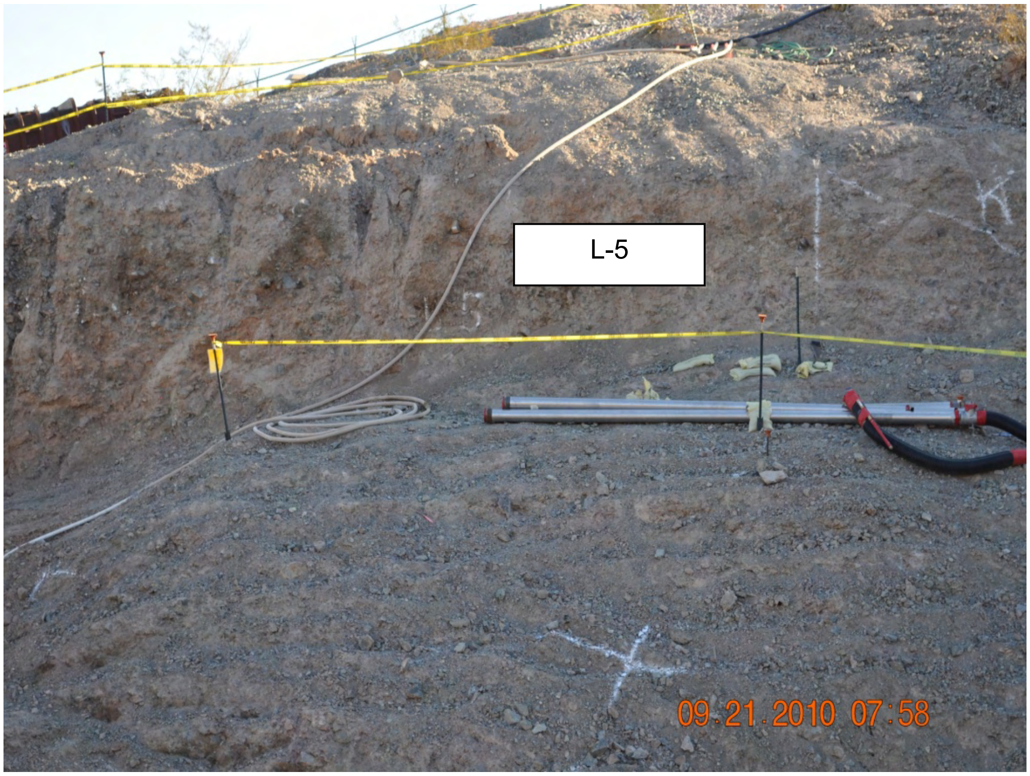
Cell K-5: Native Alluvium



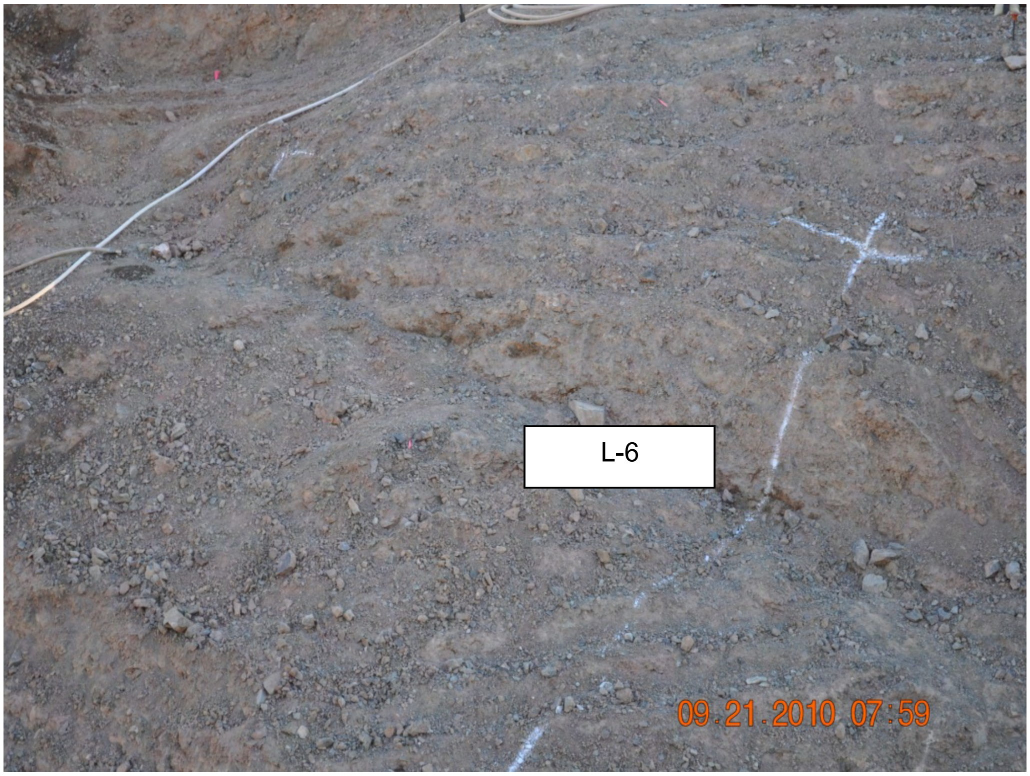
Cell K-6: Native Alluvium



Cell K-7: Native Alluvium



Cell L-5: Native Alluvium



Cell L-6: Native Alluvium

Cell L-7: Native Alluvium

Areas C and D Photo Log

Cell M-1: Disturbed Alluvium

Cell M-2: Disturbed Alluvium

Cell M-3: Disturbed Alluvium

Cell M-4: Disturbed Alluvium

Cell M-5: Disturbed Alluvium

Cell M-6: Disturbed Alluvium

Cell M-7: Disturbed Alluvium

Cell M-8: Native Alluvium

Areas C and D Photo Log

Cell N-1: Disturbed Alluvium

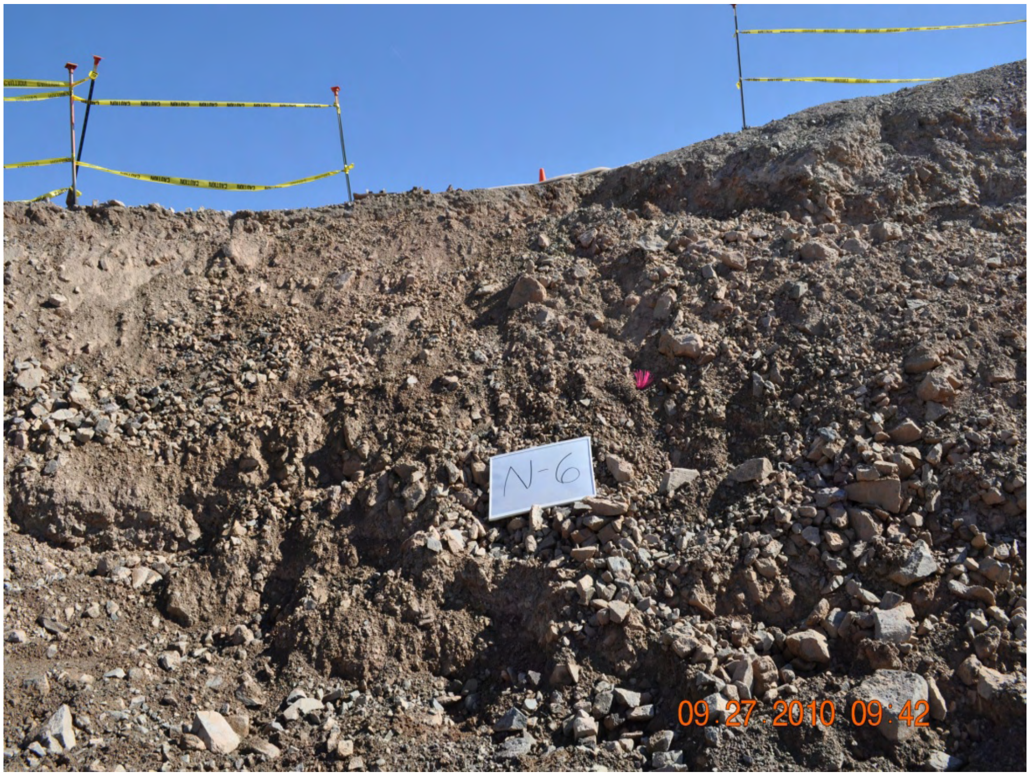
Cell N-2: Disturbed Alluvium

Cell N-3: Disturbed Alluvium

Cell N-4: Disturbed Alluvium

Areas C and D Photo Log

Cell N-5: Disturbed Alluvium



Cell N-6: Disturbed Alluvium

Cell N-7: Disturbed Alluvium

Cell N-8: Disturbed Alluvium

Areas C and D Photo Log

Cell O-2: Disturbed Alluvium

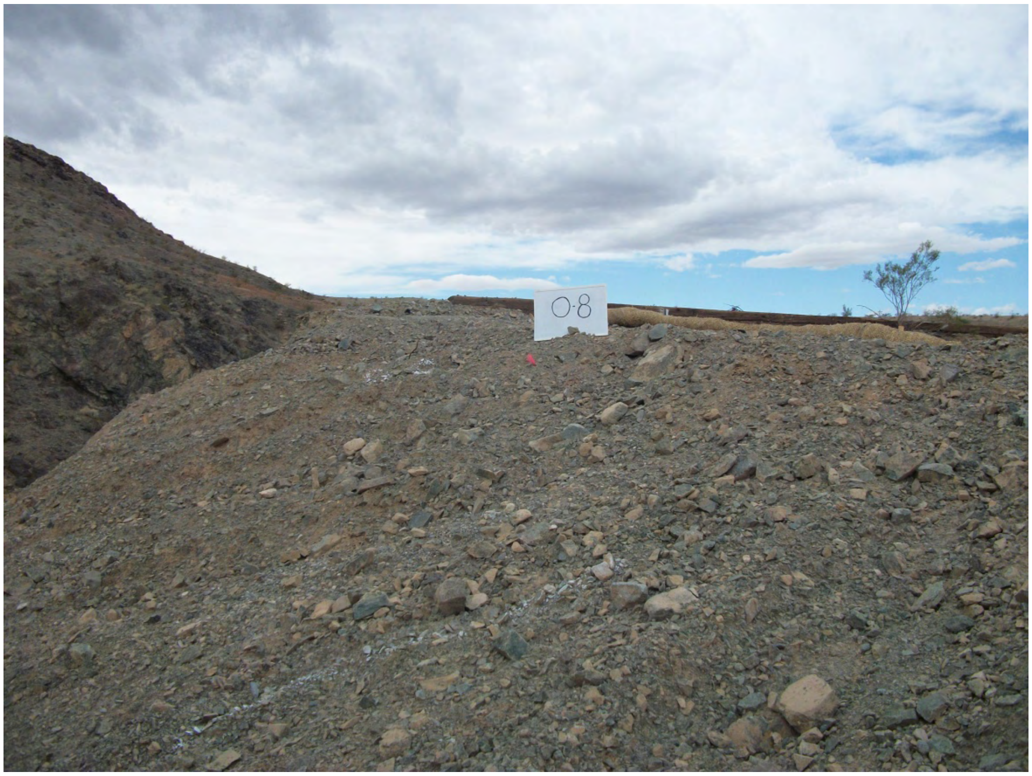
Cell O-3: Disturbed Alluvium

Cell O-4: Disturbed Alluvium

Cell O-5: Disturbed Alluvium

Cell O-6: Disturbed Alluvium

Cell O-7: Disturbed Alluvium



Cell O-8: Disturbed Alluvium

Cell P-3: Disturbed Alluvium

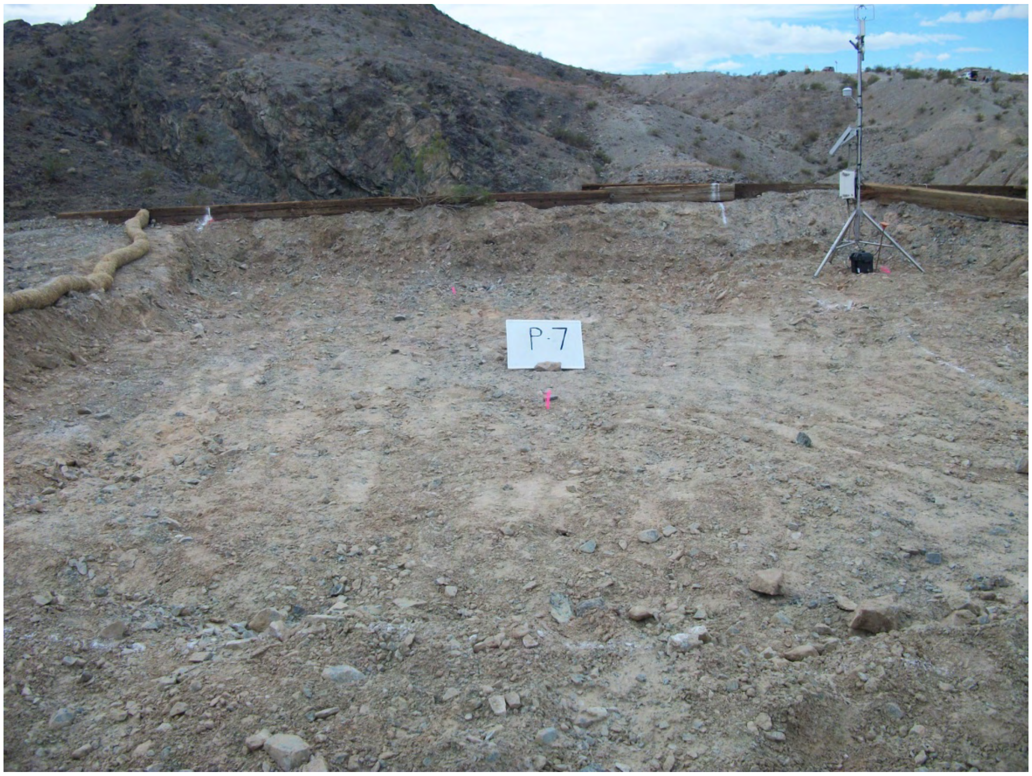
Areas C and D Photo Log

P-4: Disturbed Alluvium

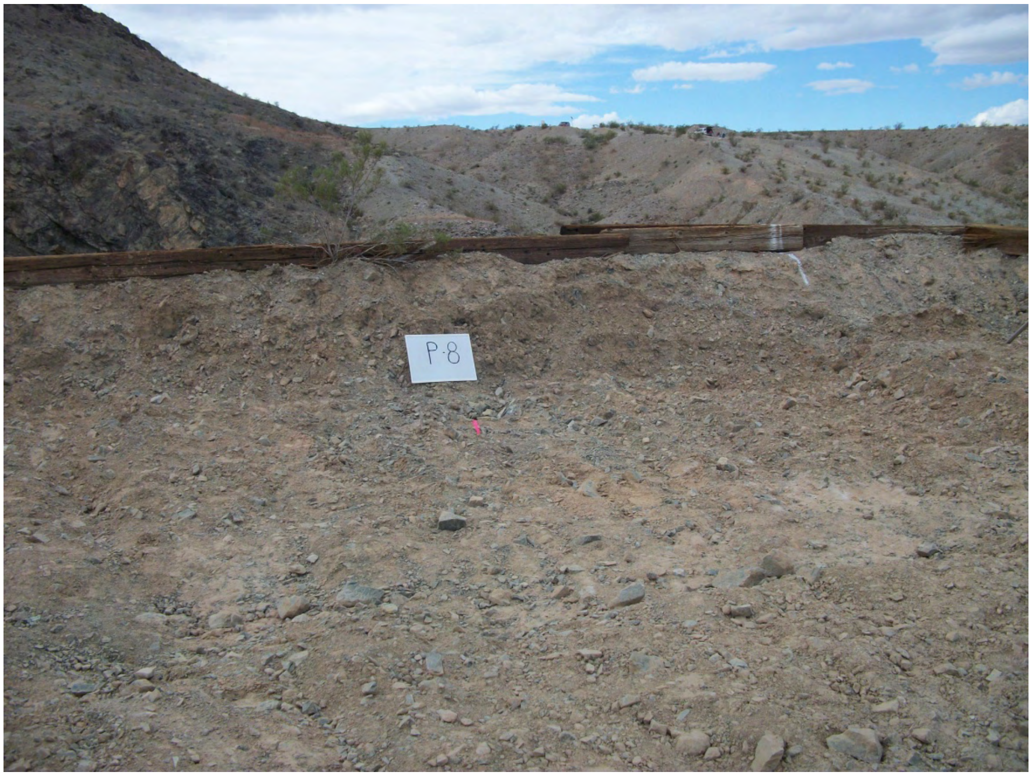
P-4: Disturbed Alluvium (zoomed in view of bottom of excavation area)

Cell P-5: Disturbed Alluvium

Cell P-6: Disturbed Alluvium



Cell P-7: Disturbed Alluvium



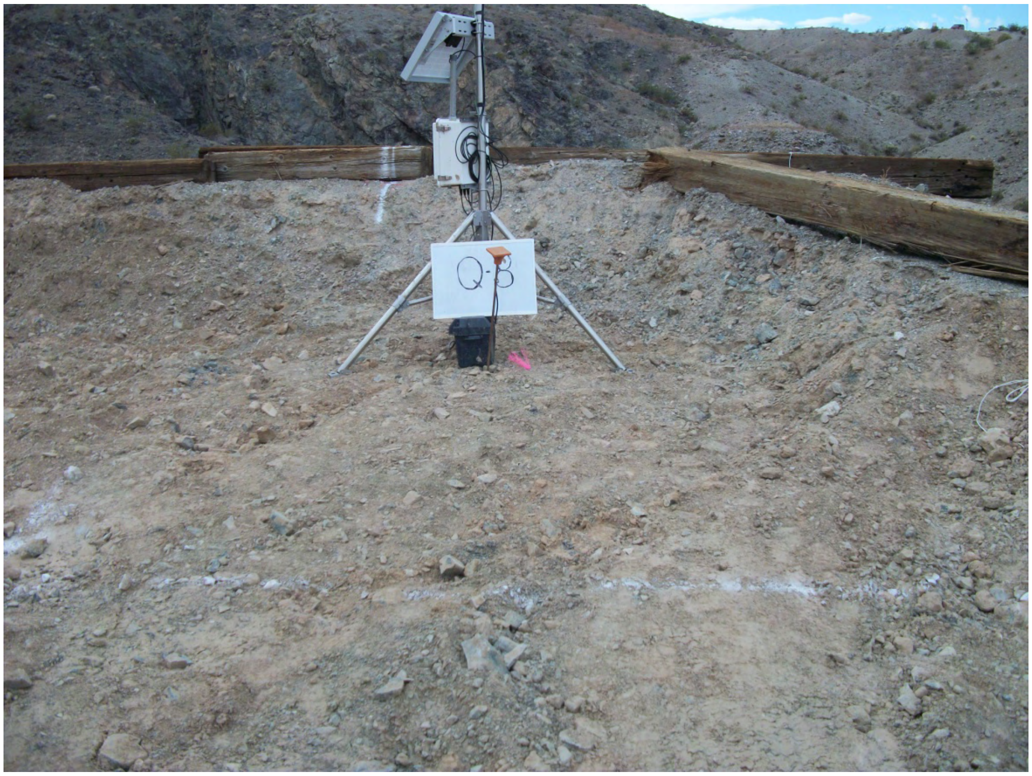
Cell P-8: Disturbed Alluvium

Cell Q-4: Disturbed Alluvium

Cell Q-5: Disturbed Alluvium

Cell Q-6: Disturbed Alluvium

Cell Q-7: Disturbed Alluvium



Cell Q-8: Disturbed Alluvium

Cell R-5: Disturbed Alluvium

Cell R-6: Disturbed Alluvium

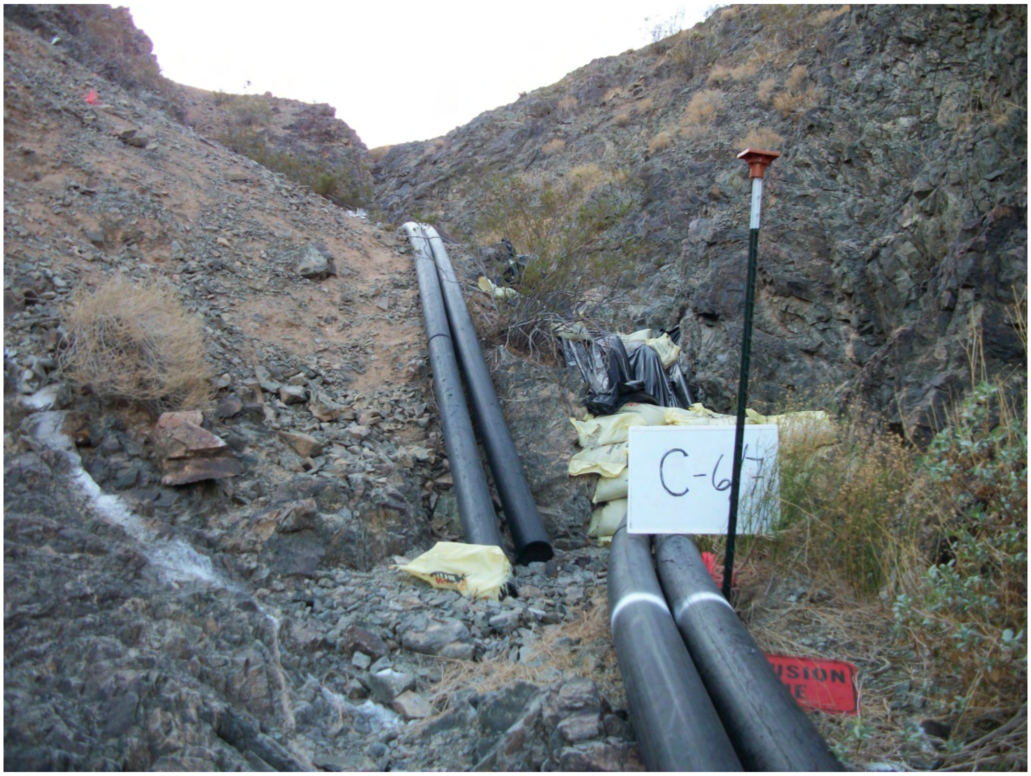
Cell R-7: Disturbed Alluvium

Area E Photo Log

Cell A-6/7: Native Alluvium

Cell B-6/7: Native Alluvium

Area E Photo Log



Cell C-6/7: Native Alluvium

Cell D-6/7: Disturbed Alluvium

Area E Photo Log

Cell E-6/7: Disturbed Alluvium

Cell F-6/7: Disturbed Alluvium (vacuumed down to bedrock)

Cell G-6/7: Disturbed Alluvium (vacuumed down to bedrock)

Cell H-6/7: Disturbed Alluvium (vacuumed down to bedrock)

Area E Photo Log

Cell I-6/7: Disturbed Alluvium

Cell J-6/7: Disturbed Alluvium

Cell K-7/8: Disturbed Alluvium (vacuumed down to bedrock)

Cell L-7/8: Disturbed Alluvium

Cell M-7/8: Disturbed Alluvium

Cell M-8/9: Disturbed Alluvium

Cell M-10: Disturbed Alluvium

Appendix G
Soil Data Quality Evaluation

Acronyms and Abbreviations

AOC	Area of Concern
APPL	Agriculture and Priority Pollutants Laboratories, Inc.
ATL	Advanced Technology Laboratories
CCV	continuing calibration verification
Cr(VI)	hexavalent chromium
DQE	data quality evaluation
FD	field duplicate
LB	laboratory blank
LCL	lower control limit
LCS	laboratory control sample
MS/MSD	matrix spike/matrix spike duplicate
PAH	polynuclear aromatic hydrocarbon
PARCC	precision, accuracy, representativeness, completeness, and comparability
PCB	polychlorinated biphenyl
PDS	post-digestion spike
PG&E	Pacific Gas and Electric Company
QAPP	Quality Assurance Project Plan
RPD	relative percent difference
SIM	selected ion monitoring
TEQ	toxic equivalents (used to report the *toxicity-weighted masses* of mixtures of dioxins.)
UCL	upper control limit
USEPA	United States Environmental Protection Agency

Dioxin and Furan List

2,3,7,8-TCDD	2,3,7,8-Tetrachlorodibenzo-p-dioxin
1,2,3,7,8-PeCDD	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
1,2,3,6,7,8-HxCDD	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
1,2,3,4,7,8-HxCDD	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin

1,2,3,7,8,9-HxCDD	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
OCDD	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin
2,3,7,8-TCDF	2,3,7,8-Tetrachlorodibenzofuran
1,2,3,7,8-PeCDF	1,2,3,7,8-Pentachlorodibenzofuran
2,3,4,7,8-PeCDF	2,3,4,7,8-Pentachlorodibenzofuran
1,2,3,6,7,8-HxCDF	1,2,3,6,7,8-Hexachlorodibenzofuran
1,2,3,7,8,9-HxCDF	1,2,3,7,8,9-Hexachlorodibenzofuran
1,2,3,4,7,8-HxCDF	1,2,3,4,7,8-Hexachlorodibenzofuran
2,3,4,6,7,8-HxCDF	2,3,4,6,7,8-Hexachlorodibenzofuran
1,2,3,4,6,7,8-HpCDF	1,2,3,4,6,7,8-Heptachlorodibenzofuran
1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8,9-Heptachlorodibenzofuran
OCDF	1,2,3,4,6,7,8,9-Octachlorodibenzofuran

APPENDIX G

Review of Analytical Data for the Time-Critical Removal Action at AOC 4, Topock Compressor Station

G.1 Introduction

This data quality evaluation (DQE) assesses the data quality of analytical results for the Time-Critical Removal Action at AOC 4 at the Pacific Gas and Electric Company (PG&E) Topock Compressor Station near Needles, California, between February 2, 2010, and November 19, 2010. Samples were collected and analyzed as specified in the *Work Plan for Time-Critical Removal Action at AOC 4, Pacific Gas and Electric Company Topock Compressor Station, Needles, California* (Alisto et al., 2009). The *PG&E Program Quality Assurance Project Plan* (QAPP) (CH2M HILL, 2008a), *Addendum to the PG&E Program Quality Assurance Project Plan for the RCRA Facility Investigation/Remedial Investigation for Soil* (CH2M HILL, 2008b), *Addendum to the PG&E Program Quality Assurance Project Plan for Dioxins and Furans* (CH2M HILL, 2010), individual method requirements, internal laboratory quality control criteria, *Guidelines from the United States Environmental Protection Agency (USEPA) Contract Laboratory National Functional Guidelines for Inorganic Data Review* (USEPA, 2002), and US*EPA National Functional Guidelines for Organic Data Review* (USEPA, 1999) were used in this assessment.

G.2 Analytical Data

This DQE report covers 132 normal soil samples and 15 soil field duplicate samples. These samples were reported by the laboratories in 49 sample delivery groups.

Advanced Technology Laboratories (ATL) of Las Vegas, Nevada, and Agriculture and Priority Pollutants Laboratories, Inc. (APPL) of Clovis, California, performed the required analyses. Both laboratories are certified by the California Department of Health Service's Environmental Laboratory Accreditation Program for the analyses included in Table G-1, where appropriate. Samples were analyzed for each of the analytes/methods provided in Table G-1.

TABLE G-1
Analytical Parameters
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

Parameter	Method	Laboratory
Percent moisture	D2216 [a]	ATL/ APPL
Metals	SW6010B [b]	ATL
Hexavalent chromium	SW7199 [b]	ATL

TABLE G-1
Analytical Parameters
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

Parameter	Method	Laboratory
Mercury	SW7471A [b]	ATL
Polychlorinated biphenyls (PCB)	SW8082 [b]	ATL
Polynuclear aromatic hydrocarbons (PAH)	SW8270 Selected Ion Monitoring (SIM) [b]	ATL
Dioxins and furans	SW8290 [b]	APPL

[a] American Society for Testing and Materials – ASTM – 2005.
[b] SW-846 Test Methods for Evaluating Solid Waste, 3rd Edition, revision 4, 1996.

The assessment of data includes a review of:

- Chain of custody documentation
- Holding time compliance
- Required quality control samples at the specified frequencies
- Method blanks
- Laboratory Control sample (LCS)
- Surrogate spike recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) samples
- Field duplicate (FD) precision
- Initial and continuing calibration criteria

Field duplicates were also reviewed to ascertain field compliance.

Data flags were assigned according to the QAPP (CH2M HILL, 2008a). These flags, as well as the reason for each flag, are entered into the electronic database and can be found in Table G-2 at the end of this DQE report. Multiple flags are routinely applied to specific sample method/matrix/analyte combinations, but there will be only one final flag. A final flag is applied to the data and is the most conservative of the applied validation flags. The final flag also includes matrix and blank sample effects.

The data flags are listed and defined below:

- J = Analyte was present but the reported value might not be accurate or precise (estimated).
- R = Data were unusable due to deficiencies in the ability to analyze the sample and meet quality control criteria.
- U = Analyte was not detected at the specified reporting limit.
- UJ = Analyte was not detected and the specified reporting limit might not be accurate or precise (estimated).

G.3 Data Assessment

Data assessment includes a review of the activities described in the following sections.

G.3.1 Holding Times

Holding time exceedances result in the possible loss of target analytes due to degradation or chemical reactions that usually cause a negative bias to sample results.

- Twelve samples analyzed for PCBs (SW8082), 12 samples analyzed for PAHs (SW8270sim), and two samples analyzed for dioxin and furan (SW8290) were extracted outside the USEPA recommended holding time. Detected and nondetected sample results exceeding the method recommended holding time were qualified as estimated and flagged "J" and "UJ." See Validation reason HTp>UCL in Table G-2 at the end of Appendix G.

G.3.2 Laboratory Blanks

Laboratory blanks (LB) are used to monitor and evaluate each preparation or analytical batch for potential contamination throughout the analytical process from sources such as glassware, reagents, instrumentation, and other potential contaminant sources within the laboratory. If a target analyte is detected in the LBs, similar detections in the samples are possibly artifacts of laboratory contamination.

Laboratory blanks were analyzed at the required frequency. Target analytes were detected between the method detection limit (MDL) and reporting limit (RL) in 30 samples analyzed for dioxin and furan (SW8290). Forty six samples results associated with the LB<RL validation reason were at concentrations between the MDL and 5 times the associated LB concentration; those results were qualified as nondetect and flagged U.

G.3.3 Equipment Blanks

Equipment blanks are used to assess the effectiveness of sampling equipment decontamination procedures. Target analytes detected in equipment blanks may indicate that field equipment was not thoroughly decontaminated and/or samples could have been cross contaminated. Equipment blanks are collected at a frequency of one per sampling crew per day where nondedicated equipment is used.

Dedicated field sampling equipment was used for this project.

G.3.4 Calibration

Initial calibration and periodic verification are essential to generating defensible analytical data. Initial calibrations that do not meet method requirements result in data that may be either positively or negatively biased. Periodic continuing calibration verification (CCV) ensures that the instrument has not been adversely affected by the sample matrix or other instrument failures that would increase or decrease the sensitivity or accuracy of the method. The inability to meet initial or continuing calibration analyses may result in qualifying the data as estimated or rejecting the data for project decision-making purposes.

All initial calibrations were performed as required by the methods and met the method criteria.

- One CCV for OCDD (SW8290) had a recovery that was less than the lower control limit (LCL). One associated detect result was qualified as estimated and flagged J.
- One CCV for Benzo(a)anthracene (SW8270SIM) had a recovery that was greater than the upper control limit (UCL). Four associated detected results were qualified as estimated and were flagged J. See Validation reason CCV>UCL in Table G-2.

G.3.5 Field Duplicates

Field duplicates are collected and analyzed to determine if field collection activities or the sample matrix influence the precision of the analytical measurements obtained at the sample site. Soils samples are inherently more variable than water samples, despite homogenizing, and lead to larger relative percent differences (RPD). Large RPDs do not necessarily indicate lack of precision when associated with soil samples.

- Five FD pairs had RPDs greater than the UCL for metals (SW6010, 20 percent). Two FD pairs had RPDs greater than the UCL for PAHs (SW8270SIM, 30 percent). Two FD pairs had an RPD greater than the UCL for aroclor 1254 (SW8082, 50 percent). Four FD pairs had RPDs greater than the UCL for dioxin and furan (SW8290, 40 percent). And four FD pairs had RPDs greater than the UCL for dioxin and furan (SW8290).

  Detected and non-detected results were qualified as estimated and were flagged J and UJ. See Validation reason FD>RPD in Table G-2 and refer to a list of field duplicate pairs in Table G-3.

G.3.6 Laboratory Control Samples

Laboratory control samples measure laboratory accuracy. Accuracy is the degree of agreement between a measured value and the expected value. The LCS is prepared from laboratory deionized or reagent grade water and spiked with known amounts of the target analytes of interest. Recovery of analytes outside of quality control limits generally indicates a problem with the analytical procedure. A low LCS recovery indicates that the target analyte in associated samples is likely biased low. Likewise, a high LCS recovery indicates that the target analyte in associated samples is likely biased high.

- Laboratory control samples were analyzed at the required frequency and were recovered within quality control limits with one exception. One LCS for HxCDD (SW8290) had a recovery that was less than the LCL (70 percent). One associated nondetected sample result was qualified as estimated and UJ. See Validation reason LCS<LCL in Table C-2.

G.3.7 Matrix Spike Samples

Matrix spike recoveries are used to evaluate the effect of the sample matrix on the recovery of target analytes. A sample is fortified with a known quantity of a target analyte and is carried through the same preparation and analytical procedures as the nonspiked sample. Matrix spike recoveries outside the quality control limits may indicate that the sample's matrix is affecting the method's ability to accurately quantify the target analyte in the associated sample or samples from similar locations. A low MS recovery generally indicates a negative bias in the sample data. Associated parent detected and nondetected sample results are qualified as estimated and are flagged J or UJ. When the MS, MSD, or both have recoveries that are below 10 percent and the associated parent sample has a detected result, the result is qualified as estimated and is flagged J (low bias). However, an associated nondetected parent sample result is considered unusable and is flagged R. A high MS recovery indicates a potential positive bias to the associated sample data. The associated parent detected results are qualified as estimated and are flagged J. Nondetected parent results associated with a high bias recovery are not qualified. If an MS and an MSD are analyzed, an RPD greater than the quality control criteria may further indicate that the sample matrix is affecting the precision of the method for the target analyte that did not meet criteria. If the MS and MSD fail to recover within the QAPP specified criteria, a Postdigestion Spike (PDS) is required (SW6010). The PDS is an analyte spike added to a portion of a prepared sample, or its dilution, and should be recovered within 75 to 125 percent of the known value. If the spike is not recovered within the specified limits, the original sample must be diluted and reanalyzed to compensate for the matrix effect. Results must agree to within 10 percent of the original analysis.

- The MS/MSD samples for AOC 4 had recovery of target analytes outside the control limits established in the QAPP. Twenty five target analytes were qualified as estimated: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, thallium, zinc (SW6010B), Aroclor-1254 (SW8082), benzo(a)anthracene, benzo(a) pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene (SW8270SIM).

  One hundred twenty nine associated parent sample target detect results were qualified and flagged J. One hundred eighty nine associated parent sample target nondetect results were qualified and flagged UJ.

- The MS for two metals (SW6010) samples and one Cr (VI) (SW7199) sample were analyzed at dilutions different than the parent samples. The associated parent detected and non-detected sample results are qualified as estimated and are flagged J or UJ.

See Validation reason MS<LCL, MS>UCL, SD<LCL, SD>UCL, MSRPD, PDS<LCL, PDS>UCL, and LabA&P in Table G-2.

G.3.8 Surrogates

Surrogates are primarily used in organic chromatography methods and are added prior to sample preparation. The surrogates are added to all samples, standards, and blanks in an analytical run and provide a measurement to determine recovery for every sample matrix. Surrogate compounds are chosen to represent the various chemistries of the target analytes in a specific method. They are often specified by the method and are deliberately selected for their improbability of occurring as environmental contaminants. The results are compared to the acceptance criteria as established by the method or the QAPP.

Sample results with surrogate recoveries outside the acceptance criteria were qualified as estimated and were flagged J for all detected results, qualified as estimated and flagged UJ for all nondetect results where the surrogate recovery is equal to or greater than 10 percent, and rejected and flagged R if the surrogate recovery is less than 10 percent.

- One detect sample had surrogate recovery less than the LCL for 1,2,3,6,7,8-HxCDD (SW8290), and two samples with detected OCDD (SW8290) had a surrogate recovery greater than the UCL. The samples results were qualified as estimated and flagged J. See Validation reason Sur<LCL and Sur>UCL in Table G-2.

G.3.9 Other

G.3.9.1 Internal Standards

Internal standards have similar chemical characteristics to those of the analytes and provide an analytical response that is distinct from the analyte and not normally subject to interference. The internal standards are added prior to analysis for the purpose of determining analyte concentrations. The internal standard's response is referenced against a relative response factor, and the sample's analyte concentration can be corrected for matrix effects. Sample results with internal standard relative response factors outside the acceptance criteria are qualified and flagged J for all detected results, qualified and flagged UJ for all nondetect results where the internal standard recovery is equal to or greater than 10 percent, and rejected and flagged R if the surrogate recovery is less than 10 percent.

- For dioxin and furan samples a list of C13 compounds are added as internal standards. Nine samples had C13 results where the ion ratio was out of control. Three nondetect results were rejected and flagged R. Nine detect results were qualified and flagged J. See Validation reason Calculation Faulty in Table G-2.

G.3.9.2 Dilution Test

Dilution Test is used in metals analysis to evaluate matrix interference. The sample concentration must be a minimum of at least 25 times greater than the RL. A fivefold (1+4) dilution is analyzed and must agree within 10 percent of the original concentration. If not, an interference effect must be suspected.

- The 67 detect sample results that exceeded the 10 percent RPD criteria were qualified and flagged J. See Validation reason SerDil in Table G-2.

G.3.9.3 Retention Time Window

Retention time is one form of measurement associated with liquid and gas chromatography. Ion chromatography introduces a sample, either manually or with an auto sampler, into a sample loop of known volume. A buffered aqueous solution known as the mobile phase carries the sample from the loop onto a column that contains some form of stationary phase material. The time it takes for an analyte to move from the injection loop through the column to the detector is referred to as the retention time. Because retention times vary with the identity of the component, they are used for qualitative analysis. Once the laboratory has established a retention time window (the laboratory averages the retention time of multiple standards and calculates a retention time window by using ± 3 times the standard deviation from the average), the retention time is used to positively identify the analyte in subsequent samples.

When a sample's chromatogram has a suspect peak (that is believed to be the analyte in question but is not within the retention time window), the analyst should dilute and reanalyze the sample with the suspect peak to positively identify the analyte. If the sample is not reanalyzed, a detect sample result is qualified and flagged J; a nondetect result is qualified and flagged UJ. No samples were qualified due to the retention time window criteria.

G.3.9.4 Matrix Interference

Matrix interference was encountered in many of the soil samples. Some interferences are listed in the method for metals (SW6010B), and others can be inferred from poor MS/MSD (all methods), surrogate (organic methods), or internal standard (mass spectrometer methods) recovery. Matrix interference may require a dilution, resulting in the sample being reported at an elevated reporting level. Alternatively, matrix interference may require the sample result be qualified due to poor MS/MSD, surrogate, or internal standard recovery.

- One 1,2,3,4,7,8-HxCDF sample result showed coelution with OCDPE. The result was qualified and flagged U (not detected). See Validation reason Coelution in Table G-2.

G.3.10 Laboratory Duplicates

Laboratory duplicates measure laboratory precision. RPDs that exceed method criteria indicate imprecision in some aspect of the analytical procedure.

The laboratory analyzed duplicate aliquots of field samples at the required frequency. The quality control acceptance criteria for laboratory duplicates were met for all methods.

G.3.11 Chain of Custody/Sample Receipt

Samples are collected under chain of custody to ensure that sample integrity is documented and known from the time of collection through receipt at the laboratory, where custody is relinquished to the laboratory.

Each sample was documented in a completed chain of custody and was received by the laboratory courier in good condition. All discrepancies identified by the laboratory were promptly resolved.

All samples were transported to the laboratories by couriers provided by the laboratories.

G.4 Overall Assessment

The goal of this review is to evaluate whether the resulting analytical data from a sufficient number of the representative samples can be used to support the decision-making process. The procedures for assessing the precision, accuracy, representativeness, completeness, and comparability (PARCC) parameters are addressed in the QAPP (CH2M HILL, 2008a). The following summary highlights the PARCC findings for the Time-Critical Removal Action at AOC 4, Topock Compressor Station.

The overall data quality met the data quality objectives and the project-specific objectives despite some issues with the analysis of a difficult soil matrix, which are summarized in the following statements:

- The completeness objective for the PG&E program is 90 percent for soil samples. The completeness objectives were met for all method/analyte combinations collected.

- Samples were collected and analyzed based on approved methods/procedures, and the results are reported using units specified in the Action Memorandum entitled "Request for Time-Critical Removal Action Number 4 at AOC 4 Debris Ravine, Pacific Gas and Electric Topock Compressor Station" (DOI, 2009).
- Forty six dioxin and furan samples/analyte results, between the MDL and the RL, associated with method blank contamination were qualified as not detected and flagged U. Note - dioxins and furans are reported to the MDL per the QAPP addendum and the method requirements, all other analytes are reported to the RL per the QAPP and QAPP addendium.
- Three 1,2,3,7,8,9-HxCDD nondetect results were qualified as rejected and flagged R. (The TEQ calculation uses 0.1 times the concentration of 1,2,3,7,8,9-HxCDD for the Toxic Equivalency Factor, which in turn is used to calculate the TEQ).
- With the exceptions discussed above, the routinely acceptable performance of field and laboratory quality control indicators (field duplicates, field blanks, laboratory blanks, laboratory control sample [LCS], MS/MSD, and calibrations) show the accuracy and precision of the data meet the project objectives.
- Matrix effects were encountered, resulting in elevated reporting limits.
- Analytical data as qualified meet the data quality objectives and can be used in project decision-making.

G.5 References

CH2M HILL, NES, Alisto, and ARCADIS/ Turnkey. 2010. *Time-Critical Removal Action at AOC 4, Work Plan.*

CH2M HILL. 2008a. *PG&E Program Quality Assurance Project Plan*.

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United States Environmental Protection Agency (USEPA). 1999. *USEPA National Functional Guidelines for Organic Data Review.*

__________. 2002. *Contract Laboratory National Functional Guidelines for Inorganic Data Review*. July.

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
Holding Time Summary							
N003893	AOC4-A01-10002	SW8082	Aroclor 1016	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8082	Aroclor 1221	µg/Kg	37	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8082	Aroclor 1232	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8082	Aroclor 1242	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8082	Aroclor 1248	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8082	Aroclor 1254	µg/Kg	120	J	HTp>UCL
N003893	AOC4-A01-10002	SW8082	Aroclor 1260	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8082	Aroclor 1016	µg/Kg	18	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8082	Aroclor 1221	µg/Kg	36	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8082	Aroclor 1232	µg/Kg	18	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8082	Aroclor 1242	µg/Kg	18	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8082	Aroclor 1248	µg/Kg	18	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8082	Aroclor 1254	µg/Kg	150	J	HTp>UCL
N003893	AOC4-A01minus-10004	SW8082	Aroclor 1260	µg/Kg	18	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8082	Aroclor 1016	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8082	Aroclor 1221	µg/Kg	37	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8082	Aroclor 1232	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8082	Aroclor 1242	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8082	Aroclor 1248	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8082	Aroclor 1254	µg/Kg	23	J	HTp>UCL
N003893	AOC4-A02-10005	SW8082	Aroclor 1260	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A03-10010	SW8082	Aroclor 1016	µg/Kg	20	UJ	HTp>UCL
N003893	AOC4-A03-10010	SW8082	Aroclor 1221	µg/Kg	39	UJ	HTp>UCL
N003893	AOC4-A03-10010	SW8082	Aroclor 1232	µg/Kg	20	UJ	HTp>UCL
N003893	AOC4-A03-10010	SW8082	Aroclor 1242	µg/Kg	20	UJ	HTp>UCL
N003893	AOC4-A03-10010	SW8082	Aroclor 1248	µg/Kg	20	UJ	HTp>UCL
N003893	AOC4-A03-10010	SW8082	Aroclor 1254	µg/Kg	90	J	HTp>UCL
N003893	AOC4-A03-10010	SW8082	Aroclor 1260	µg/Kg	20	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8082	Aroclor 1016	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8082	Aroclor 1221	µg/Kg	39	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8082	Aroclor 1232	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8082	Aroclor 1242	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8082	Aroclor 1248	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8082	Aroclor 1254	µg/Kg	75	J	HTp>UCL
N003893	AOC4-A25-20002	SW8082	Aroclor 1260	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8082	Aroclor 1016	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8082	Aroclor 1221	µg/Kg	39	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8082	Aroclor 1232	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8082	Aroclor 1242	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8082	Aroclor 1248	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8082	Aroclor 1254	µg/Kg	310	J	HTp>UCL
N003893	AOC4-B01-10082	SW8082	Aroclor 1260	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8082	Aroclor 1016	µg/Kg	18	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8082	Aroclor 1221	µg/Kg	36	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8082	Aroclor 1232	µg/Kg	18	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8082	Aroclor 1242	µg/Kg	18	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8082	Aroclor 1248	µg/Kg	18	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8082	Aroclor 1254	µg/Kg	100	J	HTp>UCL
N003893	AOC4-B03-10089	SW8082	Aroclor 1260	µg/Kg	18	UJ	HTp>UCL
N003893	AOC4-C01-10162	SW8082	Aroclor 1016	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-C01-10162	SW8082	Aroclor 1221	µg/Kg	38	UJ	HTp>UCL
N003893	AOC4-C01-10162	SW8082	Aroclor 1232	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-C01-10162	SW8082	Aroclor 1242	µg/Kg	19	UJ	HTp>UCL
N003893	AOC4-C01-10162	SW8082	Aroclor 1248	µg/Kg	19	UJ	HTp>UCL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N003893	AOC4-C01-10162	SW8082	Aroclor 1254	µg/Kg	410	J	HTp>UCL
N003893	AOC4-C01-10162	SW8082	Aroclor 1260	µg/Kg	19	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8082	Aroclor 1016	µg/Kg	18	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8082	Aroclor 1221	µg/Kg	36	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8082	Aroclor 1232	µg/Kg	18	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8082	Aroclor 1242	µg/Kg	18	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8082	Aroclor 1248	µg/Kg	18	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8082	Aroclor 1254	µg/Kg	340	J	HTp>UCL
N004005	AOC4-D01-10242	SW8082	Aroclor 1260	µg/Kg	18	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8082	Aroclor 1016	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8082	Aroclor 1221	µg/Kg	37	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8082	Aroclor 1232	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8082	Aroclor 1242	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8082	Aroclor 1248	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8082	Aroclor 1254	µg/Kg	1200	J	HTp>UCL
N004209	AOC4-I04-10654	SW8082	Aroclor 1260	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8082	Aroclor 1262	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8082	Aroclor 1268	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8082	Aroclor 1016	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8082	Aroclor 1221	µg/Kg	37	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8082	Aroclor 1232	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8082	Aroclor 1242	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8082	Aroclor 1248	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8082	Aroclor 1254	µg/Kg	320	J	HTp>UCL
N004209	AOC4-J03-10730	SW8082	Aroclor 1260	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8082	Aroclor 1262	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8082	Aroclor 1268	µg/Kg	19	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8082	Aroclor 1016	µg/Kg	18	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8082	Aroclor 1221	µg/Kg	36	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8082	Aroclor 1232	µg/Kg	18	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8082	Aroclor 1242	µg/Kg	18	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8082	Aroclor 1248	µg/Kg	18	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8082	Aroclor 1254	µg/Kg	18	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8082	Aroclor 1260	µg/Kg	18	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8082	Aroclor 1262	µg/Kg	18	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8082	Aroclor 1268	µg/Kg	18	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	1-Methylnaphthalene	µg/Kg	5.6	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	2-Methylnaphthalene	µg/Kg	5.6	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Acenaphthene	µg/Kg	5.6	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Acenaphthylene	µg/Kg	5.6	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Anthracene	µg/Kg	5.6	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Benzo(a)anthracene	µg/Kg	190	J	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Benzo(a)pyrene	µg/Kg	110	J	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	220	J	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	82	J	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	82	J	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Chrysene	µg/Kg	160	J	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Dibenz(a,h)anthracene	µg/Kg	21	J	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Fluoranthene	µg/Kg	480	J	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Fluorene	µg/Kg	5.6	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	78	J	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Naphthalene	µg/Kg	5.6	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Pentachlorophenol	µg/Kg	370	UJ	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Phenanthrene	µg/Kg	30	J	HTp>UCL
N003893	AOC4-A01-10002	SW8270SIM	Pyrene	µg/Kg	470	J	HTp>UCL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N003893	AOC4-A01minus-10004	SW8270SIM	1-Methylnaphthalene	µg/Kg	5.4	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	2-Methylnaphthalene	µg/Kg	5.4	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Acenaphthene	µg/Kg	5.4	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Acenaphthylene	µg/Kg	5.4	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Anthracene	µg/Kg	5.4	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Benzo(a)anthracene	µg/Kg	130	J	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Benzo(a)pyrene	µg/Kg	82	J	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	170	J	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	66	J	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	39	J	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Chrysene	µg/Kg	110	J	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Dibenz(a,h)anthracene	µg/Kg	17	J	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Fluoranthene	µg/Kg	310	J	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Fluorene	µg/Kg	5.4	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	62	J	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Naphthalene	µg/Kg	5.4	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Pentachlorophenol	µg/Kg	360	UJ	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Phenanthrene	µg/Kg	39	J	HTp>UCL
N003893	AOC4-A01minus-10004	SW8270SIM	Pyrene	µg/Kg	260	J	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	1-Methylnaphthalene	µg/Kg	5.7	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	2-Methylnaphthalene	µg/Kg	5.7	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Acenaphthene	µg/Kg	5.7	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Acenaphthylene	µg/Kg	5.7	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Anthracene	µg/Kg	5.7	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Benzo(a)anthracene	µg/Kg	110	J	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Benzo(a)pyrene	µg/Kg	71	J	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	160	J	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	59	J	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	39	J	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Chrysene	µg/Kg	110	J	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Dibenz(a,h)anthracene	µg/Kg	18	J	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Fluoranthene	µg/Kg	190	J	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Fluorene	µg/Kg	5.7	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	57	J	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Naphthalene	µg/Kg	5.7	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Pentachlorophenol	µg/Kg	370	UJ	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Phenanthrene	µg/Kg	20	J	HTp>UCL
N003893	AOC4-A02-10005	SW8270SIM	Pyrene	µg/Kg	190	J	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	1-Methylnaphthalene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	2-Methylnaphthalene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Acenaphthene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Acenaphthylene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Anthracene	µg/Kg	12	J	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Benzo(a)anthracene	µg/Kg	420	J	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Benzo(a)pyrene	µg/Kg	190	J	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	520	J	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	140	J	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	100	J	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Chrysene	µg/Kg	260	J	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Dibenz(a,h)anthracene	µg/Kg	37	J	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Fluoranthene	µg/Kg	760	J	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Fluorene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	130	J	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Naphthalene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Pentachlorophenol	µg/Kg	390	UJ	HTp>UCL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N003893	AOC4-A03-10010	SW8270SIM	Phenanthrene	µg/Kg	70	J	HTp>UCL
N003893	AOC4-A03-10010	SW8270SIM	Pyrene	µg/Kg	700	J	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	1-Methylnaphthalene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	2-Methylnaphthalene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Acenaphthene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Acenaphthylene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Anthracene	µg/Kg	10	J	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Benzo(a)anthracene	µg/Kg	290	J	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Benzo(a)pyrene	µg/Kg	170	J	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	490	J	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	120	J	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	90	J	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Chrysene	µg/Kg	240	J	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Dibenz(a,h)anthracene	µg/Kg	33	J	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Fluoranthene	µg/Kg	720	J	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Fluorene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	120	J	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Naphthalene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Pentachlorophenol	µg/Kg	390	UJ	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Phenanthrene	µg/Kg	55	J	HTp>UCL
N003893	AOC4-A25-20002	SW8270SIM	Pyrene	µg/Kg	650	J	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	1-Methylnaphthalene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	2-Methylnaphthalene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Acenaphthene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Acenaphthylene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Anthracene	µg/Kg	13	J	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Benzo(a)anthracene	µg/Kg	410	J	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Benzo(a)pyrene	µg/Kg	170	J	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	510	J	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	110	J	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	97	J	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Chrysene	µg/Kg	250	J	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Dibenz(a,h)anthracene	µg/Kg	30	J	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Fluoranthene	µg/Kg	770	J	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Fluorene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	110	J	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Naphthalene	µg/Kg	5.9	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Pentachlorophenol	µg/Kg	390	UJ	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Phenanthrene	µg/Kg	110	J	HTp>UCL
N003893	AOC4-B01-10082	SW8270SIM	Pyrene	µg/Kg	640	J	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	1-Methylnaphthalene	µg/Kg	5.5	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	2-Methylnaphthalene	µg/Kg	5.5	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Acenaphthene	µg/Kg	5.5	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Acenaphthylene	µg/Kg	5.5	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Anthracene	µg/Kg	10	J	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Benzo(a)anthracene	µg/Kg	250	J	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Benzo(a)pyrene	µg/Kg	140	J	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	430	J	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	97	J	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	73	J	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Chrysene	µg/Kg	220	J	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Dibenz(a,h)anthracene	µg/Kg	31	J	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Fluoranthene	µg/Kg	600	J	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Fluorene	µg/Kg	5.5	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	97	J	HTp>UCL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N003893	AOC4-B03-10089	SW8270SIM	Naphthalene	µg/Kg	5.5	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Pentachlorophenol	µg/Kg	360	UJ	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Phenanthrene	µg/Kg	54	J	HTp>UCL
N003893	AOC4-B03-10089	SW8270SIM	Pyrene	µg/Kg	550	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	1-Methylnaphthalene	µg/Kg	5.6	UJ	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	2-Methylnaphthalene	µg/Kg	5.6	UJ	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Acenaphthene	µg/Kg	22	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Acenaphthylene	µg/Kg	6	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Anthracene	µg/Kg	95	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Benzo(a)anthracene	µg/Kg	1000	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Benzo(a)pyrene	µg/Kg	750	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	1400	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	190	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	380	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Chrysene	µg/Kg	1200	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Dibenz(a,h)anthracene	µg/Kg	63	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Fluoranthene	µg/Kg	2400	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Fluorene	µg/Kg	14	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	200	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Naphthalene	µg/Kg	5.6	UJ	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Pentachlorophenol	µg/Kg	370	UJ	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Phenanthrene	µg/Kg	1200	J	HTp>UCL
N003893	AOC4-C01-10162	SW8270SIM	Pyrene	µg/Kg	2100	J	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	1-Methylnaphthalene	µg/Kg	5.5	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	2-Methylnaphthalene	µg/Kg	5.5	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Acenaphthene	µg/Kg	5.5	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Acenaphthylene	µg/Kg	5.5	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Anthracene	µg/Kg	36	J	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Benzo(a)anthracene	µg/Kg	870	J	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Benzo(a)pyrene	µg/Kg	550	J	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	860	J	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	390	J	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	190	J	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Chrysene	µg/Kg	630	J	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Dibenz(a,h)anthracene	µg/Kg	90	J	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Fluoranthene	µg/Kg	1200	J	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Fluorene	µg/Kg	5.5	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	330	J	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Naphthalene	µg/Kg	5.5	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Pentachlorophenol	µg/Kg	360	UJ	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Phenanthrene	µg/Kg	130	J	HTp>UCL
N004005	AOC4-D01-10242	SW8270SIM	Pyrene	µg/Kg	1100	J	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	1-Methylnaphthalene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	2-Methylnaphthalene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Acenaphthene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Acenaphthylene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Anthracene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Benzo(a)anthracene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Benzo(a)pyrene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Chrysene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Dibenz(a,h)anthracene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Fluoranthene	µg/Kg	5.6	UJ	HTp>UCL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N004209	AOC4-I04-10654	SW8270SIM	Fluorene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Naphthalene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Pentachlorophenol	µg/Kg	370	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Phenanthrene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-I04-10654	SW8270SIM	Pyrene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	1-Methylnaphthalene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	2-Methylnaphthalene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Acenaphthene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Acenaphthylene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Anthracene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Benzo(a)anthracene	µg/Kg	5.6	J	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Benzo(a)pyrene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	9	J	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	12	J	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Chrysene	µg/Kg	7.9	J	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Dibenz(a,h)anthracene	µg/Kg	8.2	J	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Fluoranthene	µg/Kg	16	J	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Fluorene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	9.7	J	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Naphthalene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Pentachlorophenol	µg/Kg	370	UJ	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Phenanthrene	µg/Kg	6	J	HTp>UCL
N004209	AOC4-J03-10730	SW8270SIM	Pyrene	µg/Kg	13	J	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	1-Methylnaphthalene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	2-Methylnaphthalene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Acenaphthene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Acenaphthylene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Anthracene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Benzo(a)anthracene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Benzo(a)pyrene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Chrysene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Dibenz(a,h)anthracene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Fluoranthene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Fluorene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Naphthalene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Pentachlorophenol	µg/Kg	370	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Phenanthrene	µg/Kg	5.6	UJ	HTp>UCL
N004209	AOC4-L04-10893	SW8270SIM	Pyrene	µg/Kg	5.6	UJ	HTp>UCL
61367	AOC4-D01-10242	SW8290	1,2,3,4,6,7,8-HpCDF	Pg/g	32	J	HTp>UCL
61367	AOC4-D01-10242	SW8290	1,2,3,4,6,7,8-HpCDD	PG/G	330	J	HTp>UCL
61367	AOC4-D01-10242	SW8290	1,2,3,4,7,8,9-HpCDF	PG/G	3.1	J	HTp>UCL
61367	AOC4-D01-10242	SW8290	1,2,3,4,7,8-HpCDF	PG/G	4.5	J	HTp>UCL
61367	AOC4-D01-10242	SW8290	1,2,3,4,7,8-HpCDD	PG/G	5.5	J	HTp>UCL
61367	AOC4-D01-10242	SW8290	1,2,3,6,7,8-HpCDF	PG/G	2	UJ	HTp>UCL
61367	AOC4-D01-10242	SW8290	1,2,3,6,7,8-HpCDD	PG/G	14	J	HTp>UCL
61367	AOC4-D01-10242	SW8290	1,2,3,7,8,9-HpCDF	PG/G	1.1	UJ	HTp>UCL
61367	AOC4-D01-10242	SW8290	1,2,3,7,8,9- HpCDD	PG/G	5.6	UJ	HTp>UCL
61367	AOC4-D01-10242	SW8290	1,2,3,7,8-PeCDF	PG/G	1.3	UJ	HTp>UCL
61367	AOC4-D01-10242	SW8290	1,2,3,7,8-PeCDD	PG/G	2.9	UJ	HTp>UCL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
61367	AOC4-D01-10242	SW8290	2,3,4,6,7,8-HxCDF	PG/G	78	UJ	HTp>UCL
61367	AOC4-D01-10242	SW8290	2,3,4,7,8-PeCDF	PG/G	2.8	J	HTp>UCL
61367	AOC4-D01-10242	SW8290	2,3,7,8-TCDD	PG/G	0.66	UJ	HTp>UCL
61367	AOC4-D01-10242	SW8290	2,3,7,8-TCDF	PG/G	2.5	UJ	HTp>UCL
61367	AOC4-D01-10242	SW8290	OCDF	PG/G	76	J	HTp>UCL
61367	AOC4-D01-10242	SW8290	OCDD	PG/G	2900	J	HTp>UCL
61539	AOC4-E01S-50022	SW8290	1,2,3,4,6,7,8-HpCDF	PG/G	160	J	HTp>UCL
61539	AOC4-E01S-50022	SW8290	1,2,3,4,6,7,8-HpCDD	PG/G	1400	J	HTp>UCL
61539	AOC4-E01S-50022	SW8290	1,2,3,4,7,8,9-HpCDF	PG/G	13	UJ	HTp>UCL
61539	AOC4-E01S-50022	SW8290	1,2,3,4,7,8-HxCDF	PG/G	20	UJ	HTp>UCL
61539	AOC4-E01S-50022	SW8290	1,2,3,4,7,8-HxCDD	PG/G	9.1	J	HTp>UCL
61539	AOC4-E01S-50022	SW8290	1,2,3,6,7,8-HxCDF	PG/G	7.1	UJ	HTp>UCL
61539	AOC4-E01S-50022	SW8290	1,2,3,6,7,8-HxCDD	PG/G	48	UJ	HTp>UCL
61539	AOC4-E01S-50022	SW8290	1,2,3,7,8,9-HxCDF	PG/G	0.56	UJ	HTp>UCL
61539	AOC4-E01S-50022	SW8290	1,2,3,7,8,9- HxCDD	PG/G	12	UJ	HTp>UCL
61539	AOC4-E01S-50022	SW8290	1,2,3,7,8-PeCDF	PG/G	12	J	HTp>UCL
61539	AOC4-E01S-50022	SW8290	1,2,3,7,8-PeCDD	PG/G	1.2	UJ	HTp>UCL
61539	AOC4-E01S-50022	SW8290	2,3,4,6,7,8-HxCDF	PG/G	310	UJ	HTp>UCL
61539	AOC4-E01S-50022	SW8290	2,3,4,7,8-PeCDF	PG/G	19	J	HTp>UCL
61539	AOC4-E01S-50022	SW8290	2,3,7,8-TCDD	PG/G	1.1	UJ	HTp>UCL
61539	AOC4-E01S-50022	SW8290	2,3,7,8-TCDF	PG/G	13	J	HTp>UCL
61539	AOC4-E01S-50022	SW8290	OCDF	PG/G	520	J	HTp>UCL
61539	AOC4-E01S-50022	SW8290	OCDD	PG/G	13000	J	HTp>UCL
Continuing Calibration Summary							
63328	AOC4-P04-11214	SW8290	OCDD	PG/G	23	J	CCV<LCL
N004059	AOC4-A01S-50001	SW8270SIM	Benzo(a)anthracene	µg/Kg	130	J	CCV>UCL
N004059	AOC4-B01S-50007	SW8270SIM	Benzo(a)anthracene	µg/Kg	160	J	CCV>UCL
N004059	AOC4-B25-20004	SW8270SIM	Benzo(a)anthracene	µg/Kg	5.5	J	CCV>UCL
N004059	AOC4-D01S-50016	SW8270SIM	Benzo(a)anthracene	µg/Kg	11	J	CCV>UCL
Field Duplicate Summary							
N003893	AOC4-A03-10010	SW6010B	Barium	mg/Kg	270	J	FD>RPD
N003893	AOC4-A03-10010	SW6010B	Lead	mg/Kg	6.3	J	FD>RPD
N003893	AOC4-A25-20002	SW6010B	Barium	mg/Kg	220	J	FD>RPD
N003893	AOC4-A25-20002	SW6010B	Lead	mg/Kg	8.2	J	FD>RPD
N003720	AOC4-GB04-11228	SW6010B	Barium	mg/Kg	170	J	FD>RPD
N003720	AOC4-GB04-11228	SW6010B	Copper	mg/Kg	60	J	FD>RPD
N003720	AOC4-GB04-11228	SW6010B	Lead	mg/Kg	30	J	FD>RPD
N003755	AOC4-GB11-11235	SW6010B	Lead	mg/Kg	7.2	J	FD>RPD
N003720	AOC4-GB15-21228	SW6010B	Barium	mg/Kg	240	J	FD>RPD
N003720	AOC4-GB15-21228	SW6010B	Copper	mg/Kg	95	J	FD>RPD
N003720	AOC4-GB15-21228	SW6010B	Lead	mg/Kg	300	J	FD>RPD
N003755	AOC4-GB15-21235	SW6010B	Lead	mg/Kg	16	J	FD>RPD
N004688	AOC4-L07-10905	SW6010B	Nickel	mg/Kg	45	J	FD>RPD
N004688	AOC4-L07-10905	SW6010B	Vanadium	mg/Kg	67	J	FD>RPD
N004688	AOC4-L07-10905	SW6010B	Zinc	mg/Kg	61	J	FD>RPD
N004688	AOC4-L07-20905	SW6010B	Nickel	mg/Kg	36	J	FD>RPD
N004688	AOC4-L07-20905	SW6010B	Vanadium	mg/Kg	53	J	FD>RPD
N004688	AOC4-L07-20905	SW6010B	Zinc	mg/Kg	49	J	FD>RPD
N004776	AOC4-Q05-11257	SW6010B	Zinc	mg/Kg	61	J	FD>RPD
N004776	AOC4-Q25-21257	SW6010B	Zinc	mg/Kg	48	J	FD>RPD
N003720	AOC4-GB04-11228	SW8082	Aroclor 1254	µg/Kg	1700	J	FD>RPD
N003755	AOC4-GB11-11235	SW8082	Aroclor 1254	µg/Kg	350	J	FD>RPD
N003720	AOC4-GB15-21228	SW8082	Aroclor 1254	µg/Kg	590	J	FD>RPD
N003755	AOC4-GB15-21235	SW8082	Aroclor 1254	µg/Kg	900	J	FD>RPD

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N004059	AOC4-B01S-50007	SW8270SIM	Anthracene	µg/Kg	33	J	FD>RPD
N004059	AOC4-B01S-50007	SW8270SIM	Benzo(a)anthracene	µg/Kg	160	J	FD>RPD
N004059	AOC4-B01S-50007	SW8270SIM	Benzo(a)pyrene	µg/Kg	64	J	FD>RPD
N004059	AOC4-B01S-50007	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	160	J	FD>RPD
N004059	AOC4-B01S-50007	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	40	J	FD>RPD
N004059	AOC4-B01S-50007	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	36	J	FD>RPD
N004059	AOC4-B01S-50007	SW8270SIM	Chrysene	µg/Kg	120	J	FD>RPD
N004059	AOC4-B01S-50007	SW8270SIM	Fluoranthene	µg/Kg	490	J	FD>RPD
N004059	AOC4-B01S-50007	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	32	J	FD>RPD
N004059	AOC4-B01S-50007	SW8270SIM	Phenanthrene	µg/Kg	240	J	FD>RPD
N004059	AOC4-B01S-50007	SW8270SIM	Pyrene	µg/Kg	360	J	FD>RPD
N004059	AOC4-B25-20004	SW8270SIM	Anthracene	µg/Kg	5.5	UJ	FD>RPD
N004059	AOC4-B25-20004	SW8270SIM	Benzo(a)anthracene	µg/Kg	5.5	J	FD>RPD
N004059	AOC4-B25-20004	SW8270SIM	Benzo(a)pyrene	µg/Kg	5.5	UJ	FD>RPD
N004059	AOC4-B25-20004	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	5.5	UJ	FD>RPD
N004059	AOC4-B25-20004	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	5.5	UJ	FD>RPD
N004059	AOC4-B25-20004	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	5.5	UJ	FD>RPD
N004059	AOC4-B25-20004	SW8270SIM	Chrysene	µg/Kg	5.9	J	FD>RPD
N004059	AOC4-B25-20004	SW8270SIM	Fluoranthene	µg/Kg	18	J	FD>RPD
N004059	AOC4-B25-20004	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	5.5	UJ	FD>RPD
N004059	AOC4-B25-20004	SW8270SIM	Phenanthrene	µg/Kg	20	J	FD>RPD
N004059	AOC4-B25-20004	SW8270SIM	Pyrene	µg/Kg	13	J	FD>RPD
N003720	AOC4-GB04-11228	SW8270SIM	Fluoranthene	µg/Kg	5.2	UJ	FD>RPD
N003720	AOC4-GB15-21228	SW8270SIM	Fluoranthene	µg/Kg	29	J	FD>RPD
62169	AOC4-E05-10337	SW8290	1,2,3,4,6,7,8-HeCDD	PG/G	250	J	FD>RPD
62169	AOC4-E05-10337	SW8290	OCDD	PG/G	4700	J	FD>RPD
62169	AOC4-E25-20337	SW8290	1,2,3,4,6,7,8-HeCDD	PG/G	99	J	FD>RPD
62169	AOC4-E25-20337	SW8290	OCDD	PG/G	780	J	FD>RPD
60839	AOC4-GB04-11228	SW8290	1,2,3,4,6,7,8-HeCDF	PG/G	170	J	FD>RPD
60839	AOC4-GB04-11228	SW8290	OCDF	PG/G	570	J	FD>RPD
60839	AOC4-GB04-11228	SW8290	OCDD	PG/G	24000	J	FD>RPD
60839	AOC4-GB15-21228	SW8290	1,2,3,4,6,7,8-HeCDF	PG/G	110	J	FD>RPD
60839	AOC4-GB15-21228	SW8290	OCDF	PG/G	330	J	FD>RPD
60839	AOC4-GB15-21228	SW8290	OCDD	PG/G	15000	J	FD>RPD
61707	AOC4-K02-10805	SW8290	1,2,3,4,6,7,8-HeCDD	PG/G	120	J	FD>RPD
61707	AOC4-K02-10805	SW8290	OCDD	PG/G	960	J	FD>RPD
61707	AOC4-K25-20805	SW8290	1,2,3,4,6,7,8-HeCDD	PG/G	440	J	FD>RPD
61707	AOC4-K25-20805	SW8290	OCDD	PG/G	5100	J	FD>RPD
62036	AOC4-L06-10901	SW8290	1,2,3,4,6,7,8-HeCDD	PG/G	760	J	FD>RPD
62036	AOC4-L06-10901	SW8290	OCDD	PG/G	17000	J	FD>RPD
62036	AOC4-L25-20901	SW8290	1,2,3,4,6,7,8-HeCDD	PG/G	340	J	FD>RPD
62036	AOC4-L25-20901	SW8290	OCDD	PG/G	7000	J	FD>RPD
Laboratory Control Sample Summary							
61241	AOC4-B04-10093	SW8290	1,2,3,7,8,9-HeCDD	PG/G	1.1	UJ	LCS<LCL
Matrix Spike Summary							
N003893	AOC4-A01-10002	SW6010B	Antimony	mg/Kg	2.3	UJ	MS<LCL
N003893	AOC4-A01-10002	SW6010B	Molybdenum	mg/Kg	1.1	UJ	MS<LCL
N003893	AOC4-A01-10002	SW6010B	Selenium	mg/Kg	1.1	UJ	MS<LCL
N004542	AOC4-A06_A07-70000	SW6010B	Antimony	mg/Kg	2	UJ	MS<LCL
N004542	AOC4-A06_A07-70000	SW6010B	Molybdenum	mg/Kg	1	UJ	MS<LCL
N004542	AOC4-A06_A07-70000	SW6010B	Thallium	mg/Kg	2	UJ	MS<LCL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N003968	AOC4-B02-10086	SW6010B	Antimony	mg/Kg	11	UJ	MS<LCL
N003968	AOC4-B02-10086	SW6010B	Molybdenum	mg/Kg	5.4	UJ	MS<LCL
N003922	AOC4-B04-10093	SW6010B	Antimony	mg/Kg	2.2	UJ	MS<LCL
N003922	AOC4-B04-10093	SW6010B	Molybdenum	mg/Kg	1.1	UJ	MS<LCL
N004059	AOC4-D01S-50016	SW6010B	Antimony	mg/Kg	2.1	UJ	MS<LCL
N004059	AOC4-D01S-50016	SW6010B	Cadmium	mg/Kg	1	UJ	MS<LCL
N004059	AOC4-D01S-50016	SW6010B	Cobalt	mg/Kg	11	J	MS<LCL
N004059	AOC4-D01S-50016	SW6010B	Lead	mg/Kg	4.9	J	MS<LCL
N004059	AOC4-D01S-50016	SW6010B	Molybdenum	mg/Kg	1	UJ	MS<LCL
N004059	AOC4-D01S-50016	SW6010B	Nickel	mg/Kg	33	J	MS<LCL
N004059	AOC4-D01S-50016	SW6010B	Thallium	mg/Kg	2.1	UJ	MS<LCL
N004059	AOC4-D01S-50016	SW6010B	Zinc	mg/Kg	45	J	MS<LCL
N004440	AOC4-E05-10337	SW6010B	Antimony	mg/Kg	2	UJ	MS<LCL
N004440	AOC4-E05-10337	SW6010B	Barium	mg/Kg	130	J	MS<LCL
N004440	AOC4-E05-10337	SW6010B	Cadmium	mg/Kg	1	UJ	MS<LCL
N004440	AOC4-E05-10337	SW6010B	Cobalt	mg/Kg	6.5	J	MS<LCL
N004440	AOC4-E05-10337	SW6010B	Lead	mg/Kg	7.5	J	MS<LCL
N004440	AOC4-E05-10337	SW6010B	Molybdenum	mg/Kg	1	UJ	MS<LCL
N004440	AOC4-E05-10337	SW6010B	Nickel	mg/Kg	17	J	MS<LCL
N004440	AOC4-E05-10337	SW6010B	Selenium	mg/Kg	1	UJ	MS<LCL
N004440	AOC4-E05-10337	SW6010B	Thallium	mg/Kg	2	UJ	MS<LCL
N004440	AOC4-E05-10337	SW6010B	Zinc	mg/Kg	35	J	MS<LCL
N004440	AOC4-E25-20337	SW6010B	Antimony	mg/Kg	2	UJ	MS<LCL
N004440	AOC4-E25-20337	SW6010B	Barium	mg/Kg	130	J	MS<LCL
N004440	AOC4-E25-20337	SW6010B	Cadmium	mg/Kg	1	UJ	MS<LCL
N004440	AOC4-E25-20337	SW6010B	Cobalt	mg/Kg	6.7	J	MS<LCL
N004440	AOC4-E25-20337	SW6010B	Lead	mg/Kg	7.1	J	MS<LCL
N004440	AOC4-E25-20337	SW6010B	Molybdenum	mg/Kg	1	UJ	MS<LCL
N004440	AOC4-E25-20337	SW6010B	Nickel	mg/Kg	18	J	MS<LCL
N004440	AOC4-E25-20337	SW6010B	Selenium	mg/Kg	1	UJ	MS<LCL
N004440	AOC4-E25-20337	SW6010B	Thallium	mg/Kg	2	UJ	MS<LCL
N004440	AOC4-E25-20337	SW6010B	Zinc	mg/Kg	35	J	MS<LCL
N004015	AOC4-F02-10405	SW6010B	Antimony	mg/Kg	2.1	UJ	MS<LCL
N004015	AOC4-F02-10405	SW6010B	Molybdenum	mg/Kg	1.1	UJ	MS<LCL
N004015	AOC4-F02-10405	SW6010B	Selenium	mg/Kg	1.1	UJ	MS<LCL
N004522	AOC4-G04-10493	SW6010B	Antimony	mg/Kg	2	UJ	MS<LCL
N004522	AOC4-G04-10493	SW6010B	Cadmium	mg/Kg	1	UJ	MS<LCL
N004522	AOC4-G04-10493	SW6010B	Molybdenum	mg/Kg	1	UJ	MS<LCL
N004522	AOC4-G04-10493	SW6010B	Nickel	mg/Kg	14	J	MS<LCL
N004522	AOC4-G04-10493	SW6010B	Selenium	mg/Kg	1	UJ	MS<LCL
N004522	AOC4-G04-10493	SW6010B	Thallium	mg/Kg	2	UJ	MS<LCL
N004522	AOC4-G04-10493	SW6010B	Zinc	mg/Kg	50	J	MS<LCL
N003745	AOC4-GB05-11229	SW6010B	Selenium	mg/Kg	1.1	UJ	MS<LCL
N003720	AOC4-GB15-21228	SW6010B	Molybdenum	mg/Kg	1	UJ	MS<LCL
N003720	AOC4-GB15-21228	SW6010B	Selenium	mg/Kg	1	UJ	MS<LCL
N004209	AOC4-J03-10730	SW6010B	Antimony	mg/Kg	2.3	UJ	MS<LCL
N004209	AOC4-J03-10730	SW6010B	Cadmium	mg/Kg	1.1	UJ	MS<LCL
N004209	AOC4-J03-10730	SW6010B	Chromium	mg/Kg	42	J	MS<LCL
N004209	AOC4-J03-10730	SW6010B	Cobalt	mg/Kg	7.1	J	MS<LCL
N004209	AOC4-J03-10730	SW6010B	Lead	mg/Kg	5.5	J	MS<LCL
N004209	AOC4-J03-10730	SW6010B	Molybdenum	mg/Kg	1.1	UJ	MS<LCL
N004209	AOC4-J03-10730	SW6010B	Nickel	mg/Kg	22	J	MS<LCL
N004209	AOC4-J03-10730	SW6010B	Thallium	mg/Kg	2.3	UJ	MS<LCL
N004209	AOC4-J03-10730	SW6010B	Zinc	mg/Kg	41	J	MS<LCL
N004284	AOC4-J04-10733	SW6010B	Antimony	mg/Kg	2	UJ	MS<LCL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N004284	AOC4-J04-10733	SW6010B	Cadmium	mg/Kg	1	UJ	MS<LCL
N004284	AOC4-J04-10733	SW6010B	Cobalt	mg/Kg	4.3	J	MS<LCL
N004284	AOC4-J04-10733	SW6010B	Lead	mg/Kg	9.7	J	MS<LCL
N004284	AOC4-J04-10733	SW6010B	Molybdenum	mg/Kg	1	UJ	MS<LCL
N004284	AOC4-J04-10733	SW6010B	Nickel	mg/Kg	10	J	MS<LCL
N004284	AOC4-J04-10733	SW6010B	Selenium	mg/Kg	1	UJ	MS<LCL
N004284	AOC4-J04-10733	SW6010B	Thallium	mg/Kg	2	UJ	MS<LCL
N004284	AOC4-J04-10733	SW6010B	Zinc	mg/Kg	38	J	MS<LCL
N004176	AOC4-K02-10805	SW6010B	Antimony	mg/Kg	2	UJ	MS<LCL
N004176	AOC4-K02-10805	SW6010B	Barium	mg/Kg	230	J	MS<LCL
N004176	AOC4-K02-10805	SW6010B	Cadmium	mg/Kg	1	UJ	MS<LCL
N004176	AOC4-K02-10805	SW6010B	Cobalt	mg/Kg	14	J	MS<LCL
N004176	AOC4-K02-10805	SW6010B	Lead	mg/Kg	3.9	J	MS<LCL
N004176	AOC4-K02-10805	SW6010B	Molybdenum	mg/Kg	1	UJ	MS<LCL
N004176	AOC4-K02-10805	SW6010B	Nickel	mg/Kg	42	J	MS<LCL
N004176	AOC4-K02-10805	SW6010B	Selenium	mg/Kg	1	UJ	MS<LCL
N004176	AOC4-K02-10805	SW6010B	Thallium	mg/Kg	2	UJ	MS<LCL
N004176	AOC4-K02-10805	SW6010B	Zinc	mg/Kg	46	J	MS<LCL
N004355	AOC4-L05-10897	SW6010B	Antimony	mg/Kg	2.1	UJ	MS<LCL
N004355	AOC4-L05-10897	SW6010B	Cadmium	mg/Kg	1.1	UJ	MS<LCL
N004355	AOC4-L05-10897	SW6010B	Cobalt	mg/Kg	12	J	MS<LCL
N004355	AOC4-L05-10897	SW6010B	Lead	mg/Kg	7	J	MS<LCL
N004355	AOC4-L05-10897	SW6010B	Molybdenum	mg/Kg	1.1	UJ	MS<LCL
N004355	AOC4-L05-10897	SW6010B	Nickel	mg/Kg	34	J	MS<LCL
N004355	AOC4-L05-10897	SW6010B	Selenium	mg/Kg	1.1	UJ	MS<LCL
N004355	AOC4-L05-10897	SW6010B	Thallium	mg/Kg	2.1	UJ	MS<LCL
N004355	AOC4-L05-10897	SW6010B	Zinc	mg/Kg	43	J	MS<LCL
N004688	AOC4-L07-10905	SW6010B	Antimony	mg/Kg	2.2	UJ	MS<LCL
N004688	AOC4-L07-10905	SW6010B	Arsenic	mg/Kg	1.1	UJ	MS<LCL
N004688	AOC4-L07-10905	SW6010B	Beryllium	mg/Kg	1.1	UJ	MS<LCL
N004688	AOC4-L07-10905	SW6010B	Cadmium	mg/Kg	1.1	UJ	MS<LCL
N004688	AOC4-L07-10905	SW6010B	Molybdenum	mg/Kg	1.1	UJ	MS<LCL
N004688	AOC4-L07-10905	SW6010B	Selenium	mg/Kg	1.1	UJ	MS<LCL
N004688	AOC4-L07-10905	SW6010B	Thallium	mg/Kg	2.2	UJ	MS<LCL
N004688	AOC4-L07-20905	SW6010B	Antimony	mg/Kg	2.2	UJ	MS<LCL
N004688	AOC4-L07-20905	SW6010B	Arsenic	mg/Kg	1.1	UJ	MS<LCL
N004688	AOC4-L07-20905	SW6010B	Beryllium	mg/Kg	1.1	UJ	MS<LCL
N004688	AOC4-L07-20905	SW6010B	Cadmium	mg/Kg	1.1	UJ	MS<LCL
N004688	AOC4-L07-20905	SW6010B	Molybdenum	mg/Kg	1.1	UJ	MS<LCL
N004688	AOC4-L07-20905	SW6010B	Selenium	mg/Kg	1.1	UJ	MS<LCL
N004688	AOC4-L07-20905	SW6010B	Thallium	mg/Kg	2.2	UJ	MS<LCL
N004752	AOC4-M04-10973	SW6010B	Antimony	mg/Kg	2.1	UJ	MS<LCL
N004752	AOC4-M04-10973	SW6010B	Barium	mg/Kg	240	J	MS<LCL
N004752	AOC4-M04-10973	SW6010B	Beryllium	mg/Kg	1.1	UJ	MS<LCL
N004752	AOC4-M04-10973	SW6010B	Cadmium	mg/Kg	1.1	UJ	MS<LCL
N004752	AOC4-M04-10973	SW6010B	Cobalt	mg/Kg	7.9	J	MS<LCL
N004752	AOC4-M04-10973	SW6010B	Lead	mg/Kg	3.6	J	MS<LCL
N004752	AOC4-M04-10973	SW6010B	Molybdenum	mg/Kg	1.1	UJ	MS<LCL
N004752	AOC4-M04-10973	SW6010B	Selenium	mg/Kg	1.1	UJ	MS<LCL
N004752	AOC4-M04-10973	SW6010B	Thallium	mg/Kg	2.1	UJ	MS<LCL
N004377	AOC4-M05-10977	SW6010B	Antimony	mg/Kg	2	UJ	MS<LCL
N004377	AOC4-M05-10977	SW6010B	Lead	mg/Kg	5	J	MS<LCL
N004377	AOC4-M05-10977	SW6010B	Molybdenum	mg/Kg	1	UJ	MS<LCL
N004377	AOC4-M05-10977	SW6010B	Selenium	mg/Kg	1	UJ	MS<LCL
N004377	AOC4-M05-10977	SW6010B	Thallium	mg/Kg	2	UJ	MS<LCL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N004952	AOC4-P04-11214	SW6010B	Antimony	mg/Kg	2.1	UJ	MS<LCL
N004952	AOC4-P04-11214	SW6010B	Cadmium	mg/Kg	1	UJ	MS<LCL
N004952	AOC4-P04-11214	SW6010B	Molybdenum	mg/Kg	1	UJ	MS<LCL
N004952	AOC4-P04-11214	SW6010B	Selenium	mg/Kg	1	UJ	MS<LCL
N004952	AOC4-P04-11214	SW6010B	Thallium	mg/Kg	2.1	UJ	MS<LCL
N004834	AOC4-P07-11226	SW6010B	Antimony	mg/Kg	2.1	UJ	MS<LCL
N004834	AOC4-P07-11226	SW6010B	Beryllium	mg/Kg	1.1	UJ	MS<LCL
N004834	AOC4-P07-11226	SW6010B	Cadmium	mg/Kg	1.1	UJ	MS<LCL
N004834	AOC4-P07-11226	SW6010B	Molybdenum	mg/Kg	1.1	UJ	MS<LCL
N004834	AOC4-P07-11226	SW6010B	Selenium	mg/Kg	1.1	UJ	MS<LCL
N004834	AOC4-P07-11226	SW6010B	Thallium	mg/Kg	2.1	UJ	MS<LCL
N004776	AOC4-R07-11305	SW6010B	Antimony	mg/Kg	2	UJ	MS<LCL
N004776	AOC4-R07-11305	SW6010B	Cadmium	mg/Kg	1	UJ	MS<LCL
N004776	AOC4-R07-11305	SW6010B	Molybdenum	mg/Kg	1	UJ	MS<LCL
N004776	AOC4-R07-11305	SW6010B	Thallium	mg/Kg	2	UJ	MS<LCL
N004005	AOC4-D01-10242	SW8270SIM	Fluoranthene	µg/Kg	1200	J	MS<LCL
N004005	AOC4-D01-10242	SW8270SIM	Pyrene	µg/Kg	1100	J	MS<LCL
N003893	AOC4-A01-10002	SW6010B	Barium	mg/Kg	230	J	MS>UCL
N003968	AOC4-B02-10086	SW6010B	Zinc	mg/Kg	160	J	MS>UCL
N003922	AOC4-B04-10093	SW6010B	Barium	mg/Kg	390	J	MS>UCL
N004015	AOC4-F02-10405	SW6010B	Barium	mg/Kg	310	J	MS>UCL
N003745	AOC4-GB05-11229	SW6010B	Lead	mg/Kg	8.3	J	MS>UCL
N003720	AOC4-GB15-21228	SW6010B	Copper	mg/Kg	95	J	MS>UCL
N004834	AOC4-P07-11226	SW6010B	Barium	mg/Kg	240	J	MS>UCL
N004005	AOC4-D01-10242	SW8082	Aroclor 1254	µg/Kg	340	J	MS>UCL
N004005	AOC4-D01-10242	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	190	J	MS>UCL
N003755	AOC4-GB10-11234	SW8270SIM	Benzo(a)anthracene	µg/Kg	28	J	MS>UCL
N003755	AOC4-GB10-11234	SW8270SIM	Benzo(a)pyrene	µg/Kg	15	J	MS>UCL
N003755	AOC4-GB10-11234	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	33	J	MS>UCL
N003755	AOC4-GB10-11234	SW8270SIM	Chrysene	µg/Kg	25	J	MS>UCL
N003755	AOC4-GB10-11234	SW8270SIM	Fluoranthene	µg/Kg	45	J	MS>UCL
N003755	AOC4-GB10-11234	SW8270SIM	Phenanthrene	µg/Kg	13	J	MS>UCL
N003755	AOC4-GB10-11234	SW8270SIM	Pyrene	µg/Kg	36	J	MS>UCL
N003720	AOC4-GB15-21228	SW6010B	Copper	mg/Kg	95	J	MSRPD
N003720	AOC4-GB15-21228	SW6010B	Zinc	mg/Kg	71	J	MSRPD
N004440	AOC4-C05-10177	SW8082	Aroclor 1254	µg/Kg	120	J	MSRPD
N003893	AOC4-A01-10002	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	82	J	MSRPD
N003755	AOC4-GB10-11234	SW8270SIM	Benzo(a)anthracene	µg/Kg	28	J	MSRPD
N003755	AOC4-GB10-11234	SW8270SIM	Benzo(a)pyrene	µg/Kg	15	J	MSRPD
N003755	AOC4-GB10-11234	SW8270SIM	Benzo(b)fluoranthene	µg/Kg	33	J	MSRPD
N003755	AOC4-GB10-11234	SW8270SIM	Benzo(g,h,i)perylene	µg/Kg	9.6	J	MSRPD
N003755	AOC4-GB10-11234	SW8270SIM	Chrysene	µg/Kg	25	J	MSRPD
N003755	AOC4-GB10-11234	SW8270SIM	Fluoranthene	µg/Kg	45	J	MSRPD
N003755	AOC4-GB10-11234	SW8270SIM	Indeno(1,2,3-cd)pyrene	µg/Kg	10	J	MSRPD
N003755	AOC4-GB10-11234	SW8270SIM	Phenanthrene	µg/Kg	13	J	MSRPD
N003755	AOC4-GB10-11234	SW8270SIM	Pyrene	µg/Kg	36	J	MSRPD

Matrix Spike Duplicate Summary

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N003893	AOC4-A01-10002	SW6010B	Antimony	mg/Kg	2.3	UJ	SD<LCL
N003893	AOC4-A01-10002	SW6010B	Molybdenum	mg/Kg	1.1	UJ	SD<LCL
N003893	AOC4-A01-10002	SW6010B	Selenium	mg/Kg	1.1	UJ	SD<LCL
N004542	AOC4-A06_A07-70000	SW6010B	Antimony	mg/Kg	2	UJ	SD<LCL
N004542	AOC4-A06_A07-70000	SW6010B	Molybdenum	mg/Kg	1	UJ	SD<LCL
N004542	AOC4-A06_A07-	SW6010B	Thallium	mg/Kg	2	UJ	SD<LCL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
	70000						
N003968	AOC4-B02-10086	SW6010B	Antimony	mg/Kg	11	UJ	SD<LCL
N003968	AOC4-B02-10086	SW6010B	Molybdenum	mg/Kg	5.4	UJ	SD<LCL
N003922	AOC4-B04-10093	SW6010B	Antimony	mg/Kg	2.2	UJ	SD<LCL
N003922	AOC4-B04-10093	SW6010B	Molybdenum	mg/Kg	1.1	UJ	SD<LCL
N004059	AOC4-D01S-50016	SW6010B	Antimony	mg/Kg	2.1	UJ	SD<LCL
N004059	AOC4-D01S-50016	SW6010B	Cadmium	mg/Kg	1	UJ	SD<LCL
N004059	AOC4-D01S-50016	SW6010B	Cobalt	mg/Kg	11	J	SD<LCL
N004059	AOC4-D01S-50016	SW6010B	Lead	mg/Kg	4.9	J	SD<LCL
N004059	AOC4-D01S-50016	SW6010B	Molybdenum	mg/Kg	1	UJ	SD<LCL
N004059	AOC4-D01S-50016	SW6010B	Nickel	mg/Kg	33	J	SD<LCL
N004059	AOC4-D01S-50016	SW6010B	Selenium	mg/Kg	1	UJ	SD<LCL
N004059	AOC4-D01S-50016	SW6010B	Thallium	mg/Kg	2.1	UJ	SD<LCL
N004059	AOC4-D01S-50016	SW6010B	Zinc	mg/Kg	45	J	SD<LCL
N004440	AOC4-E05-10337	SW6010B	Antimony	mg/Kg	2	UJ	SD<LCL
N004440	AOC4-E05-10337	SW6010B	Barium	mg/Kg	130	J	SD<LCL
N004440	AOC4-E05-10337	SW6010B	Cadmium	mg/Kg	1	UJ	SD<LCL
N004440	AOC4-E05-10337	SW6010B	Cobalt	mg/Kg	6.5	J	SD<LCL
N004440	AOC4-E05-10337	SW6010B	Lead	mg/Kg	7.5	J	SD<LCL
N004440	AOC4-E05-10337	SW6010B	Molybdenum	mg/Kg	1	UJ	SD<LCL
N004440	AOC4-E05-10337	SW6010B	Nickel	mg/Kg	17	J	SD<LCL
N004440	AOC4-E05-10337	SW6010B	Selenium	mg/Kg	1	UJ	SD<LCL
N004440	AOC4-E05-10337	SW6010B	Thallium	mg/Kg	2	UJ	SD<LCL
N004440	AOC4-E05-10337	SW6010B	Zinc	mg/Kg	35	J	SD<LCL
N004440	AOC4-E25-20337	SW6010B	Antimony	mg/Kg	2	UJ	SD<LCL
N004440	AOC4-E25-20337	SW6010B	Barium	mg/Kg	130	J	SD<LCL
N004440	AOC4-E25-20337	SW6010B	Cadmium	mg/Kg	1	UJ	SD<LCL
N004440	AOC4-E25-20337	SW6010B	Cobalt	mg/Kg	6.7	J	SD<LCL
N004440	AOC4-E25-20337	SW6010B	Lead	mg/Kg	7.1	J	SD<LCL
N004440	AOC4-E25-20337	SW6010B	Molybdenum	mg/Kg	1	UJ	SD<LCL
N004440	AOC4-E25-20337	SW6010B	Nickel	mg/Kg	18	J	SD<LCL
N004440	AOC4-E25-20337	SW6010B	Selenium	mg/Kg	1	UJ	SD<LCL
N004440	AOC4-E25-20337	SW6010B	Thallium	mg/Kg	2	UJ	SD<LCL
N004440	AOC4-E25-20337	SW6010B	Zinc	mg/Kg	35	J	SD<LCL
N004015	AOC4-F02-10405	SW6010B	Antimony	mg/Kg	2.1	UJ	SD<LCL
N004015	AOC4-F02-10405	SW6010B	Molybdenum	mg/Kg	1.1	UJ	SD<LCL
N004522	AOC4-G04-10493	SW6010B	Antimony	mg/Kg	2	UJ	SD<LCL
N004522	AOC4-G04-10493	SW6010B	Cadmium	mg/Kg	1	UJ	SD<LCL
N004522	AOC4-G04-10493	SW6010B	Lead	mg/Kg	11	J	SD<LCL
N004522	AOC4-G04-10493	SW6010B	Molybdenum	mg/Kg	1	UJ	SD<LCL
N004522	AOC4-G04-10493	SW6010B	Nickel	mg/Kg	14	J	SD<LCL
N004522	AOC4-G04-10493	SW6010B	Selenium	mg/Kg	1	UJ	SD<LCL
N004522	AOC4-G04-10493	SW6010B	Thallium	mg/Kg	2	UJ	SD<LCL
N004522	AOC4-G04-10493	SW6010B	Zinc	mg/Kg	50	J	SD<LCL
N003745	AOC4-GB05-11229	SW6010B	Selenium	mg/Kg	1.1	UJ	SD<LCL
N003720	AOC4-GB15-21228	SW6010B	Copper	mg/Kg	95	J	SD<LCL
N003720	AOC4-GB15-21228	SW6010B	Molybdenum	mg/Kg	1	UJ	SD<LCL
N003720	AOC4-GB15-21228	SW6010B	Selenium	mg/Kg	1	UJ	SD<LCL
N004209	AOC4-J03-10730	SW6010B	Antimony	mg/Kg	2.3	UJ	SD<LCL
N004209	AOC4-J03-10730	SW6010B	Cadmium	mg/Kg	1.1	UJ	SD<LCL
N004209	AOC4-J03-10730	SW6010B	Chromium	mg/Kg	42	J	SD<LCL
N004209	AOC4-J03-10730	SW6010B	Cobalt	mg/Kg	7.1	J	SD<LCL
N004209	AOC4-J03-10730	SW6010B	Lead	mg/Kg	5.5	J	SD<LCL
N004209	AOC4-J03-10730	SW6010B	Molybdenum	mg/Kg	1.1	UJ	SD<LCL
N004209	AOC4-J03-10730	SW6010B	Nickel	mg/Kg	22	J	SD<LCL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N004209	AOC4-J03-10730	SW6010B	Thallium	mg/Kg	2.3	UJ	SD<LCL
N004209	AOC4-J03-10730	SW6010B	Zinc	mg/Kg	41	J	SD<LCL
N004284	AOC4-J04-10733	SW6010B	Antimony	mg/Kg	2	UJ	SD<LCL
N004284	AOC4-J04-10733	SW6010B	Cadmium	mg/Kg	1	UJ	SD<LCL
N004284	AOC4-J04-10733	SW6010B	Cobalt	mg/Kg	4.3	J	SD<LCL
N004284	AOC4-J04-10733	SW6010B	Lead	mg/Kg	9.7	J	SD<LCL
N004284	AOC4-J04-10733	SW6010B	Molybdenum	mg/Kg	1	UJ	SD<LCL
N004284	AOC4-J04-10733	SW6010B	Nickel	mg/Kg	10	J	SD<LCL
N004284	AOC4-J04-10733	SW6010B	Selenium	mg/Kg	1	UJ	SD<LCL
N004284	AOC4-J04-10733	SW6010B	Thallium	mg/Kg	2	UJ	SD<LCL
N004284	AOC4-J04-10733	SW6010B	Zinc	mg/Kg	38	J	SD<LCL
N004176	AOC4-K02-10805	SW6010B	Antimony	mg/Kg	2	UJ	SD<LCL
N004176	AOC4-K02-10805	SW6010B	Barium	mg/Kg	230	J	SD<LCL
N004176	AOC4-K02-10805	SW6010B	Beryllium	mg/Kg	1	UJ	SD<LCL
N004176	AOC4-K02-10805	SW6010B	Cadmium	mg/Kg	1	UJ	SD<LCL
N004176	AOC4-K02-10805	SW6010B	Cobalt	mg/Kg	14	J	SD<LCL
N004176	AOC4-K02-10805	SW6010B	Lead	mg/Kg	3.9	J	SD<LCL
N004176	AOC4-K02-10805	SW6010B	Molybdenum	mg/Kg	1	UJ	SD<LCL
N004176	AOC4-K02-10805	SW6010B	Nickel	mg/Kg	42	J	SD<LCL
N004176	AOC4-K02-10805	SW6010B	Selenium	mg/Kg	1	UJ	SD<LCL
N004176	AOC4-K02-10805	SW6010B	Thallium	mg/Kg	2	UJ	SD<LCL
N004176	AOC4-K02-10805	SW6010B	Zinc	mg/Kg	46	J	SD<LCL
N004355	AOC4-L05-10897	SW6010B	Antimony	mg/Kg	2.1	UJ	SD<LCL
N004355	AOC4-L05-10897	SW6010B	Cadmium	mg/Kg	1.1	UJ	SD<LCL
N004355	AOC4-L05-10897	SW6010B	Cobalt	mg/Kg	12	J	SD<LCL
N004355	AOC4-L05-10897	SW6010B	Lead	mg/Kg	7	J	SD<LCL
N004355	AOC4-L05-10897	SW6010B	Molybdenum	mg/Kg	1.1	UJ	SD<LCL
N004355	AOC4-L05-10897	SW6010B	Nickel	mg/Kg	34	J	SD<LCL
N004355	AOC4-L05-10897	SW6010B	Selenium	mg/Kg	1.1	UJ	SD<LCL
N004355	AOC4-L05-10897	SW6010B	Thallium	mg/Kg	2.1	UJ	SD<LCL
N004355	AOC4-L05-10897	SW6010B	Zinc	mg/Kg	43	J	SD<LCL
N004688	AOC4-L07-10905	SW6010B	Antimony	mg/Kg	2.2	UJ	SD<LCL
N004688	AOC4-L07-10905	SW6010B	Beryllium	mg/Kg	1.1	UJ	SD<LCL
N004688	AOC4-L07-10905	SW6010B	Cadmium	mg/Kg	1.1	UJ	SD<LCL
N004688	AOC4-L07-10905	SW6010B	Molybdenum	mg/Kg	1.1	UJ	SD<LCL
N004688	AOC4-L07-10905	SW6010B	Selenium	mg/Kg	1.1	UJ	SD<LCL
N004688	AOC4-L07-10905	SW6010B	Thallium	mg/Kg	2.2	UJ	SD<LCL
N004688	AOC4-L07-20905	SW6010B	Antimony	mg/Kg	2.2	UJ	SD<LCL
N004688	AOC4-L07-20905	SW6010B	Beryllium	mg/Kg	1.1	UJ	SD<LCL
N004688	AOC4-L07-20905	SW6010B	Cadmium	mg/Kg	1.1	UJ	SD<LCL
N004688	AOC4-L07-20905	SW6010B	Molybdenum	mg/Kg	1.1	UJ	SD<LCL
N004688	AOC4-L07-20905	SW6010B	Selenium	mg/Kg	1.1	UJ	SD<LCL
N004688	AOC4-L07-20905	SW6010B	Thallium	mg/Kg	2.2	UJ	SD<LCL
N004752	AOC4-M04-10973	SW6010B	Antimony	mg/Kg	2.1	UJ	SD<LCL
N004752	AOC4-M04-10973	SW6010B	Beryllium	mg/Kg	1.1	UJ	SD<LCL
N004752	AOC4-M04-10973	SW6010B	Cadmium	mg/Kg	1.1	UJ	SD<LCL
N004752	AOC4-M04-10973	SW6010B	Cobalt	mg/Kg	7.9	J	SD<LCL
N004752	AOC4-M04-10973	SW6010B	Lead	mg/Kg	3.6	J	SD<LCL
N004752	AOC4-M04-10973	SW6010B	Molybdenum	mg/Kg	1.1	UJ	SD<LCL
N004752	AOC4-M04-10973	SW6010B	Thallium	mg/Kg	2.1	UJ	SD<LCL
N004377	AOC4-M05-10977	SW6010B	Antimony	mg/Kg	2	UJ	SD<LCL
N004377	AOC4-M05-10977	SW6010B	Lead	mg/Kg	5	J	SD<LCL
N004377	AOC4-M05-10977	SW6010B	Molybdenum	mg/Kg	1	UJ	SD<LCL
N004377	AOC4-M05-10977	SW6010B	Selenium	mg/Kg	1	UJ	SD<LCL
N004377	AOC4-M05-10977	SW6010B	Thallium	mg/Kg	2	UJ	SD<LCL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N004377	AOC4-M05-10977	SW6010B	Zinc	mg/Kg	36	J	SD<LCL
N004952	AOC4-P04-11214	SW6010B	Antimony	mg/Kg	2.1	UJ	SD<LCL
N004952	AOC4-P04-11214	SW6010B	Cadmium	mg/Kg	1	UJ	SD<LCL
N004952	AOC4-P04-11214	SW6010B	Molybdenum	mg/Kg	1	UJ	SD<LCL
N004952	AOC4-P04-11214	SW6010B	Selenium	mg/Kg	1	UJ	SD<LCL
N004952	AOC4-P04-11214	SW6010B	Thallium	mg/Kg	2.1	UJ	SD<LCL
N004834	AOC4-P07-11226	SW6010B	Antimony	mg/Kg	2.1	UJ	SD<LCL
N004834	AOC4-P07-11226	SW6010B	Beryllium	mg/Kg	1.1	UJ	SD<LCL
N004834	AOC4-P07-11226	SW6010B	Cadmium	mg/Kg	1.1	UJ	SD<LCL
N004834	AOC4-P07-11226	SW6010B	Molybdenum	mg/Kg	1.1	UJ	SD<LCL
N004834	AOC4-P07-11226	SW6010B	Selenium	mg/Kg	1.1	UJ	SD<LCL
N004834	AOC4-P07-11226	SW6010B	Thallium	mg/Kg	2.1	UJ	SD<LCL
N004776	AOC4-R07-11305	SW6010B	Antimony	mg/Kg	2	UJ	SD<LCL
N004776	AOC4-R07-11305	SW6010B	Cadmium	mg/Kg	1	UJ	SD<LCL
N004776	AOC4-R07-11305	SW6010B	Molybdenum	mg/Kg	1	UJ	SD<LCL
N004776	AOC4-R07-11305	SW6010B	Thallium	mg/Kg	2	UJ	SD<LCL
N003755	AOC4-GB10-11234	SW8270SIM	Chrysene	µg/Kg	25	J	SD<LCL
N003755	AOC4-GB10-11234	SW8270SIM	Fluoranthene	µg/Kg	45	J	SD<LCL
N003755	AOC4-GB10-11234	SW8270SIM	Pyrene	µg/Kg	36	J	SD<LCL
N003893	AOC4-A01-10002	SW6010B	Barium	mg/Kg	230	J	SD>UCL
N003968	AOC4-B02-10086	SW6010B	Zinc	mg/Kg	160	J	SD>UCL
N003922	AOC4-B04-10093	SW6010B	Barium	mg/Kg	390	J	SD>UCL
N004015	AOC4-F02-10405	SW6010B	Barium	mg/Kg	310	J	SD>UCL
N003745	AOC4-GB05-11229	SW6010B	Lead	mg/Kg	8.3	J	SD>UCL
N003720	AOC4-GB15-21228	SW6010B	Zinc	mg/Kg	71	J	SD>UCL
N004688	AOC4-L07-10905	SW6010B	Barium	mg/Kg	270	J	SD>UCL
N004688	AOC4-L07-20905	SW6010B	Barium	mg/Kg	230	J	SD>UCL
N004377	AOC4-M05-10977	SW6010B	Barium	mg/Kg	200	J	SD>UCL
N004776	AOC4-R07-11305	SW6010B	Barium	mg/Kg	140	J	SD>UCL
N004005	AOC4-D01-10242	SW8082	Aroclor 1254	µg/Kg	340	J	SD>UCL
N003893	AOC4-A01-10002	SW8270SIM	Fluoranthene	µg/Kg	480	J	SD>UCL
N003893	AOC4-A01-10002	SW8270SIM	Pyrene	µg/Kg	470	J	SD>UCL
N004005	AOC4-D01-10242	SW8270SIM	Benzo(k)fluoranthene	µg/Kg	190	J	SD>UCL
Post Digestion Spike							
N004284	AOC4-J04-10733	SW6010B	Molybdenum	mg/Kg	1	UJ	PDS<LCL
N004284	AOC4-J04-10733	SW6010B	Selenium	mg/Kg	1	UJ	PDS<LCL
N004952	AOC4-P04-11214	SW6010B	Molybdenum	mg/Kg	1	UJ	PDS<LCL
N004952	AOC4-P04-11214	SW6010B	Selenium	mg/Kg	1	UJ	PDS<LCL
N004952	AOC4-P04-11214	SW6010B	Thallium	mg/Kg	2.1	UJ	PDS<LCL
N003922	AOC4-B04-10093	SW6010B	Barium	mg/Kg	390	J	PDS>UCL
N004015	AOC4-F02-10405	SW6010B	Barium	mg/Kg	310	J	PDS>UCL
N004284	AOC4-J04-10733	SW6010B	Barium	mg/Kg	160	J	PDS>UCL
Serial Dilution Summary							
N003893	AOC4-A01-10002	SW6010B	Barium	mg/Kg	230	J	SerDil
N003893	AOC4-A01-10002	SW6010B	Chromium	mg/Kg	73	J	SerDil
N003893	AOC4-A01-10002	SW6010B	Nickel	mg/Kg	55	J	SerDil
N003893	AOC4-A01-10002	SW6010B	Vanadium	mg/Kg	95	J	SerDil
N003893	AOC4-A01-10002	SW6010B	Zinc	mg/Kg	52	J	SerDil
N004542	AOC4-A06_A07-70000	SW6010B	Barium	mg/Kg	180	J	SerDil
N004542	AOC4-A06_A07-70000	SW6010B	Chromium	mg/Kg	31	J	SerDil
N004542	AOC4-A06_A07-70000	SW6010B	Nickel	mg/Kg	26	J	SerDil

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N004542	AOC4-A06_A07-70000	SW6010B	Vanadium	mg/Kg	35	J	SerDil
N004542	AOC4-A06_A07-70000	SW6010B	Zinc	mg/Kg	40	J	SerDil
N003968	AOC4-B02-10086	SW6010B	Barium	mg/Kg	770	J	SerDil
N003968	AOC4-B02-10086	SW6010B	Zinc	mg/Kg	160	J	SerDil
N003922	AOC4-B04-10093	SW6010B	Barium	mg/Kg	390	J	SerDil
N003922	AOC4-B04-10093	SW6010B	Chromium	mg/Kg	35	J	SerDil
N003922	AOC4-B04-10093	SW6010B	Nickel	mg/Kg	33	J	SerDil
N003922	AOC4-B04-10093	SW6010B	Vanadium	mg/Kg	38	J	SerDil
N003922	AOC4-B04-10093	SW6010B	Zinc	mg/Kg	46	J	SerDil
N004059	AOC4-D01S-50016	SW6010B	Barium	mg/Kg	160	J	SerDil
N004059	AOC4-D01S-50016	SW6010B	Chromium	mg/Kg	42	J	SerDil
N004059	AOC4-D01S-50016	SW6010B	Nickel	mg/Kg	33	J	SerDil
N004059	AOC4-D01S-50016	SW6010B	Vanadium	mg/Kg	51	J	SerDil
N004059	AOC4-D01S-50016	SW6010B	Zinc	mg/Kg	45	J	SerDil
N004440	AOC4-E25-20337	SW6010B	Barium	mg/Kg	130	J	SerDil
N004440	AOC4-E25-20337	SW6010B	Vanadium	mg/Kg	29	J	SerDil
N004440	AOC4-E25-20337	SW6010B	Zinc	mg/Kg	35	J	SerDil
N004015	AOC4-F02-10405	SW6010B	Barium	mg/Kg	310	J	SerDil
N004015	AOC4-F02-10405	SW6010B	Chromium	mg/Kg	28	J	SerDil
N004015	AOC4-F02-10405	SW6010B	Vanadium	mg/Kg	32	J	SerDil
N004015	AOC4-F02-10405	SW6010B	Zinc	mg/Kg	41	J	SerDil
N004522	AOC4-G04-10493	SW6010B	Barium	mg/Kg	170	J	SerDil
N004522	AOC4-G04-10493	SW6010B	Chromium	mg/Kg	26	J	SerDil
N004522	AOC4-G04-10493	SW6010B	Vanadium	mg/Kg	28	J	SerDil
N004522	AOC4-G04-10493	SW6010B	Zinc	mg/Kg	50	J	SerDil
N003745	AOC4-GB05-11229	SW6010B	Barium	mg/Kg	150	J	SerDil
N003745	AOC4-GB05-11229	SW6010B	Chromium	mg/Kg	28	J	SerDil
N003745	AOC4-GB05-11229	SW6010B	Vanadium	mg/Kg	36	J	SerDil
N003745	AOC4-GB05-11229	SW6010B	Zinc	mg/Kg	48	J	SerDil
N003755	AOC4-GB10-11234	SW6010B	Barium	mg/Kg	160	J	SerDil
N003755	AOC4-GB10-11234	SW6010B	Chromium	mg/Kg	35	J	SerDil
N003755	AOC4-GB10-11234	SW6010B	Vanadium	mg/Kg	40	J	SerDil
N003755	AOC4-GB10-11234	SW6010B	Zinc	mg/Kg	71	J	SerDil
N003720	AOC4-GB15-21228	SW6010B	Barium	mg/Kg	240	J	SerDil
N003720	AOC4-GB15-21228	SW6010B	Chromium	mg/Kg	44	J	SerDil
N003720	AOC4-GB15-21228	SW6010B	Lead	mg/Kg	300	J	SerDil
N003720	AOC4-GB15-21228	SW6010B	Vanadium	mg/Kg	38	J	SerDil
N003720	AOC4-GB15-21228	SW6010B	Zinc	mg/Kg	71	J	SerDil
N004209	AOC4-J03-10730	SW6010B	Barium	mg/Kg	780	J	SerDil
N004209	AOC4-J03-10730	SW6010B	Chromium	mg/Kg	42	J	SerDil
N004209	AOC4-J03-10730	SW6010B	Vanadium	mg/Kg	46	J	SerDil
N004209	AOC4-J03-10730	SW6010B	Zinc	mg/Kg	41	J	SerDil
N004284	AOC4-J04-10733	SW6010B	Barium	mg/Kg	160	J	SerDil
N004284	AOC4-J04-10733	SW6010B	Zinc	mg/Kg	38	J	SerDil
N004176	AOC4-K02-10805	SW6010B	Barium	mg/Kg	230	J	SerDil
N004176	AOC4-K02-10805	SW6010B	Chromium	mg/Kg	59	J	SerDil
N004176	AOC4-K02-10805	SW6010B	Nickel	mg/Kg	42	J	SerDil
N004176	AOC4-K02-10805	SW6010B	Vanadium	mg/Kg	62	J	SerDil
N004176	AOC4-K02-10805	SW6010B	Zinc	mg/Kg	46	J	SerDil
N004355	AOC4-L05-10897	SW6010B	Barium	mg/Kg	63	J	SerDil
N004355	AOC4-L05-10897	SW6010B	Chromium	mg/Kg	54	J	SerDil
N004355	AOC4-L05-10897	SW6010B	Nickel	mg/Kg	34	J	SerDil
N004355	AOC4-L05-10897	SW6010B	Vanadium	mg/Kg	54	J	SerDil

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N004355	AOC4-L05-10897	SW6010B	Zinc	mg/Kg	43	J	SerDil
N004377	AOC4-M05-10977	SW6010B	Barium	mg/Kg	200	J	SerDil
N004377	AOC4-M05-10977	SW6010B	Chromium	mg/Kg	36	J	SerDil
N004377	AOC4-M05-10977	SW6010B	Nickel	mg/Kg	26	J	SerDil
N004377	AOC4-M05-10977	SW6010B	Vanadium	mg/Kg	42	J	SerDil
N004377	AOC4-M05-10977	SW6010B	Zinc	mg/Kg	36	J	SerDil
Surrogate Summary							
61290	AOC4-D03-10249	SW8290	1,2,3,6,7,8-HeCDD	PG/G	15	J	Sur<LCL
62169	AOC4-A06-10021	SW8290	OCDD	PG/G	10000	J	Sur>UCL
61539	AOC4-E02-10326	SW8290	OCDD	PG/G	74000	J	Sur>UCL
Miscellaneous Summary							
61290	AOC4-B02-10086	SW8290	2,3,7,8-TCDD	PG/G	3	J	Calculation faulty
61367	AOC4-C02-10166	SW8290	1,2,3,7,8,9-HpCDD	PG/G	9	J	Calculation faulty
61539	AOC4-E01S-50022	SW8290	OCDD	PG/G	13000	J	Calculation faulty
61539	AOC4-E02-10326	SW8290	OCDD	PG/G	74000	J	Calculation faulty
61367	AOC4-E03-10329	SW8290	OCDD	PG/G	42000	J	Calculation faulty
61367	AOC4-E04-10333	SW8290	1,2,3,4,6,7,8-HpCDD	PG/G	82	J	Calculation faulty
61367	AOC4-E04-10333	SW8290	1,2,3,7,8,9-HxCDD	PG/G	2.1	R	Calculation faulty
61394	AOC4-F03-10409	SW8290	1,2,3,7,8,9-HxCDD	PG/G	10	R	Calculation faulty
61394	AOC4-F04-10413	SW8290	1,2,3,4,6,7,8-HpCDD	PG/G	250	J	Calculation faulty
61394	AOC4-F04-10413	SW8290	1,2,3,7,8,9-HxCDD	PG/G	1.7	R	Calculation faulty
62906	AOC4-R06-11301	SW8290	1,2,3,4,6,7,8-HpCDD	PG/G	710	J	Calculation faulty
62906	AOC4-R06-11301	SW8290	1,2,3,7,8,9-HpCDD	PG/G	19	J	Calculation faulty
62673	AOC4-N06-11062	SW8290	1,2,3,4,7,8-HxCDF	PG/G	13	U	Coelution
N003968	AOC4-B02-10086	SW6010B	Antimony	mg/Kg	11	UJ	LabA&P
N003968	AOC4-B02-10086	SW6010B	Arsenic	mg/Kg	5.4	UJ	LabA&P
N003968	AOC4-B02-10086	SW6010B	Barium	mg/Kg	770	J	LabA&P
N003968	AOC4-B02-10086	SW6010B	Beryllium	mg/Kg	5.4	UJ	LabA&P
N003968	AOC4-B02-10086	SW6010B	Cadmium	mg/Kg	5.4	UJ	LabA&P
N003968	AOC4-B02-10086	SW6010B	Chromium	mg/Kg	58	J	LabA&P
N003968	AOC4-B02-10086	SW6010B	Cobalt	mg/Kg	12	J	LabA&P
N003968	AOC4-B02-10086	SW6010B	Copper	mg/Kg	81	J	LabA&P
N003968	AOC4-B02-10086	SW6010B	Lead	mg/Kg	44	J	LabA&P
N003968	AOC4-B02-10086	SW6010B	Molybdenum	mg/Kg	5.4	UJ	LabA&P
N003968	AOC4-B02-10086	SW6010B	Nickel	mg/Kg	36	J	LabA&P
N003968	AOC4-B02-10086	SW6010B	Selenium	mg/Kg	5.4	UJ	LabA&P
N003968	AOC4-B02-10086	SW6010B	Silver	mg/Kg	5.4	UJ	LabA&P
N003968	AOC4-B02-10086	SW6010B	Thallium	mg/Kg	11	UJ	LabA&P
N003968	AOC4-B02-10086	SW6010B	Vanadium	mg/Kg	65	J	LabA&P
N003968	AOC4-B02-10086	SW6010B	Zinc	mg/Kg	160	J	LabA&P
N004015	AOC4-F02-10405	SW6010B	Antimony	mg/Kg	2.1	UJ	LabA&P
N004015	AOC4-F02-10405	SW6010B	Arsenic	mg/Kg	2.9	J	LabA&P

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
N004015	AOC4-F02-10405	SW6010B	Barium	mg/Kg	310	J	LabA&P
N004015	AOC4-F02-10405	SW6010B	Beryllium	mg/Kg	1.1	UJ	LabA&P
N004015	AOC4-F02-10405	SW6010B	Cadmium	mg/Kg	1.1	UJ	LabA&P
N004015	AOC4-F02-10405	SW6010B	Chromium	mg/Kg	28	J	LabA&P
N004015	AOC4-F02-10405	SW6010B	Cobalt	mg/Kg	6.7	J	LabA&P
N004015	AOC4-F02-10405	SW6010B	Copper	mg/Kg	14	J	LabA&P
N004015	AOC4-F02-10405	SW6010B	Lead	mg/Kg	4.5	J	LabA&P
N004015	AOC4-F02-10405	SW6010B	Molybdenum	mg/Kg	1.1	UJ	LabA&P
N004015	AOC4-F02-10405	SW6010B	Nickel	mg/Kg	19	J	LabA&P
N004015	AOC4-F02-10405	SW6010B	Selenium	mg/Kg	1.1	UJ	LabA&P
N004015	AOC4-F02-10405	SW6010B	Silver	mg/Kg	1.1	UJ	LabA&P
N004015	AOC4-F02-10405	SW6010B	Thallium	mg/Kg	2.1	UJ	LabA&P
N004015	AOC4-F02-10405	SW6010B	Vanadium	mg/Kg	32	J	LabA&P
N004015	AOC4-F02-10405	SW6010B	Zinc	mg/Kg	41	J	LabA&P
N003968	AOC4-D04-10253	SW7199	Hexavalent Chromium	mg/Kg	0.44	UJ	LabA&P
61172	AOC4-A01-10002	SW8290	2,3,7,8-TCDF	PG/G	1.5	U	LB<RL
61500	AOC4-A01S-50001	SW8290	2,3,7,8-TCDF	PG/G	1.1	U	LB<RL
61172	AOC4-A03-10010	SW8290	2,3,7,8-TCDF	PG/G	1.8	U	LB<RL
61500	AOC4-B01S-50007	SW8290	OCDD	PG/G	7.5	U	LB<RL
61500	AOC4-B25-20004	SW8290	OCDD	PG/G	11	U	LB<RL
61367	AOC4-C02-10166	SW8290	2,3,7,8-TCDF	PG/G	1.8	U	LB<RL
61539	AOC4-E01S-50022	SW8290	1,2,3,4,7,8-HxCDD	PG/G	9.1	U	LB<RL
61539	AOC4-E01S-50022	SW8290	1,2,3,7,8-PeCDF	PG/G	12	U	LB<RL
61539	AOC4-E01S-50022	SW8290	2,3,4,7,8-PeCDF	PG/G	19	U	LB<RL
61775	AOC4-I04-10654	SW8290	1,2,3,4,7,8,9-HpCDF	PG/G	3	U	LB<RL
61775	AOC4-I05-10657	SW8290	1,2,3,4,6,7,8-HpCDF	PG/G	5.6	U	LB<RL
61775	AOC4-I05-10657	SW8290	1,2,3,4,7,8,9-HpCDF	PG/G	3.9	U	LB<RL
61775	AOC4-I05-10657	SW8290	1,2,3,6,7,8-HxCDD	PG/G	2.9	U	LB<RL
61775	AOC4-I05-10657	SW8290	1,2,3,7,8,9-HxCDF	PG/G	4.2	U	LB<RL
61775	AOC4-I05-10657	SW8290	2,3,7,8-TCDF	PG/G	2.5	U	LB<RL
61707	AOC4-J02-10725	SW8290	1,2,3,7,8,9-HxCDF	PG/G	0.96	U	LB<RL
61775	AOC4-J03-10730	SW8290	2,3,7,8-TCDF	PG/G	3.9	U	LB<RL
61707	AOC4-K03-10809	SW8290	1,2,3,6,7,8-HxCDF	PG/G	1.7	U	LB<RL
61707	AOC4-K03-10809	SW8290	1,2,3,7,8,9-HxCDF	PG/G	1.2	U	LB<RL
61707	AOC4-K25-20805	SW8290	1,2,3,7,8,9-HxCDF	PG/G	2.6	U	LB<RL
61707	AOC4-L01-10881	SW8290	1,2,3,6,7,8-HxCDF	PG/G	1.3	U	LB<RL
61707	AOC4-L01-10881	SW8290	1,2,3,6,7,8-HxCDD	PG/G	2.1	U	LB<RL
61707	AOC4-L02-10885	SW8290	1,2,3,6,7,8-HxCDD	PG/G	2	U	LB<RL
61707	AOC4-L02-10885	SW8290	1,2,3,7,8,9-HxCDF	PG/G	3.2	U	LB<RL
61775	AOC4-L04-10893	SW8290	1,2,3,4,6,7,8-HpCDF	PG/G	6.3	U	LB<RL
61775	AOC4-L04-10893	SW8290	1,2,3,6,7,8-HxCDD	PG/G	3.1	U	LB<RL
62821	AOC4-M01-10961	SW8290	1,2,3,6,7,8-HxCDD	PG/G	0.73	U	LB<RL
62821	AOC4-N02-11109	SW8290	OCDF	PG/G	1.3	U	LB<RL
63039	AOC4-O03-11131	SW8290	1,2,3,6,7,8-HxCDD	PG/G	2.8	U	LB<RL
63039	AOC4-O03-11131	SW8290	1,2,3,7,8,9-HxCDD	PG/G	2.8	U	LB<RL
63093	AOC4-O05-11137	SW8290	2,3,7,8-TCDF	PG/G	0.65	U	LB<RL
63039	AOC4-O25-21131	SW8290	1,2,3,6,7,8-HxCDD	PG/G	2.2	U	LB<RL
63093	AOC4-P04-11213	SW8290	1,2,3,4,7,8-HxCDF	PG/G	1.5	U	LB<RL
63328	AOC4-P04-11214	SW8290	1,2,3,4,7,8-HxCDF	PG/G	0.87	U	LB<RL
63328	AOC4-P04-11214	SW8290	1,2,3,6,7,8-HxCDD	PG/G	1.1	U	LB<RL
63328	AOC4-P04-11214	SW8290	OCDD	PG/G	23	U	LB<RL
63039	AOC4-P06-11222	SW8290	1,2,3,6,7,8-HxCDF	PG/G	1.2	U	LB<RL
63039	AOC4-P07-11226	SW8290	1,2,3,7,8,9-HxCDD	PG/G	6.9	U	LB<RL
63093	AOC4-P25-21213	SW8290	1,2,3,4,7,8-HxCDF	PG/G	1.6	U	LB<RL
63093	AOC4-P25-21218	SW8290	1,2,3,4,7,8-HxCDF	PG/G	1.4	U	LB<RL

TABLE G-2
Summary of Samples Qualified in AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

SDG	Sample ID	Method	Analyte	Units	Final Result	Validation Flag[a]	Validation Reason
63093	AOC4-P25-21218	SW8290	2,3,7,8-TCDF	PG/G	0.91	U	LB<RL
63039	AOC4-Q06-11262	SW8290	1,2,3,6,7,8-HxCDF	PG/G	2	U	LB<RL
63039	AOC4-Q06-11262	SW8290	1,2,3,6,7,8-HxCDD	PG/G	2	U	LB<RL
63039	AOC4-Q06-11262	SW8290	1,2,3,7,8,9-HxCDD	PG/G	2.2	U	LB<RL
63039	AOC4-Q07-11266	SW8290	1,2,3,6,7,8-HxCDF	PG/G	3.6	U	LB<RL
63039	AOC4-Q08-11270	SW8290	1,2,3,6,7,8-HxCDD	PG/G	4.1	U	LB<RL

[a] This is the qualifier flag for the analyte/method combination associated with the Validation Reason.

Validation Flags:

J = the analyte is present but reported value may not be accurate or precise (estimated).

UJ = the analyte is not detected and the specified detection limit value may not be accurate (estimated) due to QC exceedances.

R = the result is rejected.

U = the analyte is qualified as “not detected” due to the blank contamination.

Validation Reasons:

Calculation faulty = C13 ion ration out of control

Coelution = OCDPE interference

CCV<LCL = Continuing calibration recovery less than the lower control limit.

CCV>UCL = Continuing calibration recovery greater than the upper control limit.

FD>RPD = Field duplicate’s relative percent difference is greater than the control limit.

HTp>UCL = Sample extraction holding time exceeded the upper control limit.

LabA&P = Laboratory accuracy and precision criteria not met.

LB<RL = Laboratory blank contamination less than the RL

LCS<LCL = Laboratory Control Sample recovery less than the lower control limit.

MS<LCL = Matrix spike recovery less than lower control limit.

MS>UCL = Matrix spike recovery greater than upper control limit.

MSRPD = Relative percent difference between matrix spike and matrix spike duplicate greater than control limit.

PDS<LCL = Post digestion spike recovery less than lower control limit.

PDS>UCL = Post digestion spike recovery greater than upper control limit.

SD<LCL = Matrix spike duplicate recovery less than lower control limit.

SD>UCL = Matrix spike duplicate recovery greater than upper control limit.

SerDil = Dilution test is greater than 10% RPD.

Sur<LCL = Surrogate recovery less than lower control limit.

Sur>UCL = Surrogate recovery greater than upper control limit.

TABLE G-3
Field Duplicate Pairs – AOC 4
Review of Analytical Data for the Time-Critical Removal Action at AOC 4
Topock Compressor Station, Needles, California

Sample	Field Duplicate	Sample	Field Duplicate
AOC4-A03-10010	AOC4-A25-20002	AOC4-L07-10905	AOC4-L07-20905
AOC4-B01S-50007	AOC4-B25-20004	AOC4-O03-11131	AOC4-O25-21131
AOC4-C06_C07-70002	AOC4-C06_C07-20002	AOC4-O05-11137	AOC4-O20-21137
AOC4-E05-10337	AOC4-E25-20337	AOC4-P04-11213	AOC4-P25-21213
AOC4-GB04-11228	AOC4-GB15-21228	AOC4-P05-11218	AOC4-P25-21218
AOC4-GB11-11235	AOC4-GB15-21235	AOC4-Q05-11257	AOC4-Q25-21257
AOC4-K02-10805	AOC4-K25-20805	AOC4-R05-11298	AOC4-R25-21298
AOC4-L06-10901	AOC4-L25-20901		

Appendix H
Air Monitoring Data

Appendix H
Air Monitoring Data

This Appendix presents the data collected during TCRA air monitoring. Air monitoring activities performed during AOC 4 remedial action included daily weather monitoring, selection of air sampling locations, sample analysis, and evaluation of analytical results of samples collected during preremoval work (baseline), site perimeter, exclusion zone perimeter, and personal air monitoring. Table H-1 presents background air sampling analytical data. Table H-2 presents air monitoring analytical results month-by-month over the TCRA implementation.

TABLE H-1
Air Sample Analytical Data
Topock Compressor Station AOC 4

	Week 1				Week 2				Week 3			
	12/15/09		12/16/09		12/23/09		12/24/09		12/29/09		12/30/09	
Analyte	**Concentration (mg/m3)**	**Reporting Limit**	**Concentration (mg/m3)**	**Reporting Limit**	**Concentration (mg/m3)**	**Reporting Limit**	**Concentration (mg/m3)**	**Reporting Limit**	**Concentration (mg/m3)**	**Reporting Limit**	**Concentration (mg/m3)**	**Reporting Limit**
Particulates	< 0.079	0.079			< 0.057	0.057					< 0.06	
PAHs[A]	< 0.001	0.001										
Lead	< 0.010	0.010			< 0.010	0.010					< 0.0032	0.0032
Cr(VI)			< 0.0002	0.0002	< 0.0002	0.0002						
Asbestos[B]											< 0.1	<0.1
PCBs[C]			< 0.0015	0.0015	< 0.0016	0.0016						
Dioxin												
Pentachlorophenol	< 0.27	0.27										

	Week 4				Week 5				Week 6			
	01/06/10		01/07/10		01/12/10		01/13/10		01/26/09			
Analyte	**Concentration (mg/m3)**	**Reporting Limit**	**Concentration (mg/m3)**	**Reporting Limit**	**Concentration (mg/m3)**	**Reporting Limit**	**Concentration (mg/m3)**	**Reporting Limit**	**Concentration (mg/m3)**	**Reporting Limit**	**Concentration (mg/m3)**	**Reporting Limit**
Particulates			< 0.010	0.010								
PAHs[A]	< 0.00087	0.00087					< 0.0007	0.0007				
Lead	< 0.0055	0.0055										
Cr(VI)			< 0.0002	0.0002								
Asbestos[B]							< 0.0045	0.0045				
PCBs[C]			< 0.00069	0.00069								
Dioxin									< 40 (pg/m3)	40 (pg/m3)		
Pentachlorophenol	< 0.18	0.18					< 0.16	0.16				

Notes:
PAHs: Polynuclear Aromatic Hydrocarbons
PCBs: Polychlorinated Biphenyls
Cr(VI): Hexavalent Chromium
A) PAHs screened for chemicals according to NIOSH 5506
B) Asbestos results Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) concentration S/cc
C) PCBs screened for chemicals according to NIOSH 5503

Action Levels

Analyte	**Exclusion Zone PEL (mg/m^3)**
Particulates	10
PAHs	0.001
Lead	0.05
Cr(VI)	0.005
Asbestos	0.5 (f/cc)
PCB	0.5
Dioxin	40 (pg/m^3)
Pentachlorophenol	0.5

Notes:
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

TABLE H-2
AOC 4 Removal Action
Analytical Results
Topock Compressor Station

Date	Analysis	Location/Results					units	Hand Held (Medium)	Notes
		N	S	E	W	Blk			
January -February									
27-Jan	**Dust**	<0.045	<0.046	<0.046	<0.045	--	mg/m^3	<0.001	
28-Jan	***Asbestos***	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	S/cc	<0.001	
29-Jan	***Dust***	<0.045	<0.046	<0.046	<0.045	--	mg/m^3	<0.001	
1-Feb	***Lead***	<0.00044	<0.00044	<0.00045	<0.00044	<0.0045	mg/m3	<0.001	
2-Feb	***Dust***	<0.044	<0.048	<0.046	<0.041	<0.045	mg/m3	<0.001	
3-Feb	***Asbestos***	PF	<0.0043	<0.0049	PF	--	S/cc	<0.001	Dup Non Detect
4-Feb	***Dust***	<0.040	<0.040	<0.040	<0.040	--	mg/m3	<0.001	
5-Feb		--	--	--	--	--		<0.001	1/2-day; no sampling
8-Feb	***Dust***	**0.044**	<0.043	<0.043	<0.043	<0.045	mg/m3	<0.001	Gabion install
9-Feb	***Dust***	<0.045	<0.045	<0.045	**0.132**		mg/m3	<0.001	Gabion install
10-Feb	***Lead***	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	mg/m3	<0.001	
11-Feb	***Asbestos***	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	S/cc	<0.001	
12-Feb		--	--	--	--	--		<0.001	1/2-day; no sampling
15-Feb	***Dust***	<0.046	<0.046	<0.046	<0.046	<0.046	mg/m3	<0.001	
16-Feb	***PCP***	<0.17	<0.16	<0.16	<0.17	<0.17	mg/m3	<0.001	
17-Feb	***PAHs***	<0.00072	<0.00072	<0.00072	<0.00072	<0.00072	mg/m3	<0.001	
18-Feb	***PCBs***	<0.00083	<0.00083	<0.00083	<0.00083	<0.00083	mg/m3	<0.001	
18-Feb	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	mg/m3	<0.001	
19-Feb		--	--	--	--	--		<0.001	Ceremony; no sampling
22-Feb		--	--	--	--	--		--	Rain
23-Feb	***PAHs***	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	mg/m3	<0.001	
23-Feb	***Lead***	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	mg/m3	<0.001	
24-Feb	***Asbestos***	<0.0049	<0.0049	PF	<0.0042	<0.0042	S/cc	<0.001	
25-Feb	***Dioxins***	<40	<40	<40	<40	<40	***pg/m3***	<0.001	
25-Feb	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	mg/m3	<0.001	
26-Feb	***PCP***	<0.2	<0.2	<0.2	<0.2	<0.2	mg/m3	<0.001	
26-Feb	***Dust***	<0.049	<0.05	<0.05	<0.051	<0.05	mg/m3	<0.001	
March									
1-Mar	***Asbestos***	<0.0048	<0.0048	<0.0048	<0.0048	<0.0049	S/cc	<0.001	
2-Mar	***PAHs***	<0.00075	<0.00075	<0.00075	<0.00075	<0.00075	mg/m3	<0.001	
2-Mar	***PCP***	<0.2	<0.2	<0.2	<0.2	<0.2	mg/m3	<0.001	

TABLE H-2
AOC 4 Removal Action
Analytical Results
Topock Compressor Station

Date	Analysis	Location/Results N	S	E	W	Blk	units	Hand Held (Medium)	Notes
3-Mar	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	mg/m3	<0.001	
3-Mar	***PCBs***	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	mg/m3	<0.001	
4-Mar	***Dust***	<0.048	<0.048	<0.048	<0.048	<0.048	mg/m3	<0.001	
5-Mar		--	--	--	--	--			No work
8-Mar	***Asbestos***	<0.0049	NS	<0.0049	NS	<0.0042	S/cc	<0.001	Wet Conditions
9-Mar	**--**	--	--	--	--	--	--	--	Rain
10-Mar	***PCP***	<0.2	<0.2	<0.2	<0.2	<0.2	mg/m3	<0.001	
10-Mar	***PAHS***	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	mg/m3	<0.001	
11-Mar	***Dioxins***	<40	<40	<40	<40	<40	pg/m3	<0.001	
12-Mar	***Lead***	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	mg/m3	<0.001	Duplicate
15-Mar	***PCBs***	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	mg/m3	<0.001	Duplicate
16-Mar	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	mg/m3	<0.001	
17-Mar	***PCP***	<0.17	<0.17	<0.17	<0.17	<0.17	mg/m3	<0.001	
18-Mar	***Dust***	<0.048	<0.048	<0.048	<0.048	<0.048	mg/m3	<0.001	Duplicate
19-Mar	***PAHs***	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	mg/m3	<0.001	Duplicate
22-Mar	***Asbestos***	<0.004	<0.004	<0.004	<0.004	<0.004	S/cc	<0.001	
23-Mar	***Lead***	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	mg/m3	<0.001	
23-Mar	***Total Cr***	<0.004	<0.004	<0.004	<0.004	<0.004	mg/m3	<0.001	
24-Mar	***PCBs***	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	mg/m3	<0.001	Total Cr
25-Mar	**--**	--	--	--	--	--	mg/m3	<0.001	Direct Read Only
26-Mar	**--**	--	--	--	--	--	mg/m3	<0.001	Direct Read Only
29-Mar	***Dust***	<0.048	<0.048	<0.048	<0.048	<0.048	mg/m3	<0.001	
30-Mar	***PCP***	<0.17	<0.17	<0.17	<0.17	<0.17	mg/m3	<0.001	
31-Mar	***PAHs***	--	--	--	--	--	mg/m3	<0.001	not analy. No work during s.
1-Apr	**--**	**--**	**--**	**--**	--	--	mg/m3	<0.001	Direct Read Only
2-Apr	**--**	**--**	**--**	**--**	--	--			No work
April									
5-Apr	***PAHs***	<0.00052	<0.00052	<0.00052	<0.00052	<0.00052	mg/m3	<0.001	
6-Apr	***Lead***	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	mg/m3	<0.001	
7-Apr	***PCBs***	<0.00075	<0.00075	<0.00075	<0.00075	<0.00075	mg/m3	<0.001	
8-Apr	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	mg/m3	<0.001	Dup
9-Apr	**--**	--	--	--	--	--	mg/m3	<0.001	

TABLE H-2
AOC 4 Removal Action
Analytical Results
Topock Compressor Station

Date	Analysis	Location/Results					units	Hand Held (Medium)	Notes
		N	S	E	W	Blk			
12-Apr	***dust***	<0.71	<0.71	<0.71	<0.71	<0.71	mg/m3	<0.001	
13-Apr	**--**	--	--	--	--	--	--	<0.001	
14-Apr	***Asbestos***						mg/m3	<0.001	
15-Apr	***PCBs***	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	mg/m3	<0.001	
16-Apr	**--**	--	--	--	--	--	--	<0.001	
19-Apr	***Lead***	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	mg/m3	<0.001	
20-Apr	**--**	--	--	--	--	--	--	<0.001	
21-Apr	***PCP***	<0.19	<0.19	<0.19	<0.19	<0.19	mg/m3	<0.001	
22-Apr	***Total Cr***	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	mg/m3	<0.001	
23-Apr	**--**							<0.001	
26-Apr	***dust***	<0.052	<0.052	<0.052	<0.052	<0.052	mg/m3	<0.001	Dup
27-Apr	***PAHs***	<0.00087	<0.00087	<0.00087	<0.00087	<0.00087	mg/m3	<0.001	Dup
28-Apr	***PCBs***	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	mg/m3	<0.001	Dup
29-Apr	**--**	--	--	--	--	--	--	<0.001	
30-Apr	***No work***	--	--	--	--	--	--		
May									
3-May	***Lead***	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	mg/m3	<0.001	
4-May	***Asbestos***	<0.005	<0.005	<0.005	<0.005	<0.005	S/cc	<0.001	
5-May	***PCP***	<0.17	<0.17	<0.17	<0.17	<0.17	mg/m3	<0.001	
6-May	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	mg/m3	<0.001	
7-May	**--**	--	--	--	--	--	mg/m3	<0.001	
10-May	**--**	--	--	--	--	--	mg/m3	<0.001	
11-May	***dust***	<0.04	<0.04	<0.04	<0.04	<0.04	mg/m3	<0.001	
12-May	***PAHs***	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	mg/m3	<0.001	
13-May	***PCBs***	<0.00073	<0.00073	<0.00073	<0.00073	<0.00073	mg/m3	<0.001	
14-May	**--**	--	--	--	--	--	mg/m3	<0.001	
17-May	***Lead***	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	mg/m3	<0.001	
18-May	***Asbestos***	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	S/cc	<0.001	
19-May	***PCP***	<0.16	<0.16	<0.16	<0.16	<0.16	mg/m3	<0.001	
20-May	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	mg/m3	<0.001	
21-May	**--**						mg/m3	<0.001	
24-May	***dust***	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	mg/m3	<0.001	

TABLE H-2
AOC 4 Removal Action
Analytical Results
Topock Compressor Station

Date	Analysis	Location/Results					units	Hand Held	Notes
		N	S	E	W	Blk		(Medium)	
25-May	***PAHs***	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	mg/m3	<0.001	
26-May	***PCBs***	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	mg/m3	<0.001	
27-May	--	--	--	--	--	--	mg/m3	<0.001	
28-May	--	--	--	--	--	--			No work
June									
31-May	--	--	--	--	--	--	--	--	Day off
1-Jun	***Lead***	<0.0033	<0.0033	<0.0033	<0.0033	--	mg/m3	<0.001	
2-Jun	***Asbestos***	<0.005	<0.005	<0.005	<0.005	<0.005	S/cc	<0.001	
3-Jun	***PCP***	<0.17	<0.17	<0.17	<0.17	<0.17	mg/m3	<0.001	
4-Jun	--	--	--	--	--	--	mg/m3	<0.001	
7-Jun	***dust***	<0.045	<0.045	0.074	0.145	<0.046	mg/m3	<0.001	
8-Jun	***PAHs***	--	--	--	--	--	mg/m3	<0.001	Malfuntion
9-Jun	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	mg/m3	<0.001	Dup
10-Jun	***PCBs***	<0.00077	<0.00077	<0.00077	<0.00077	<0.00077	mg/m3	<0.001	dup
11-Jun	--	--	--	--	--	--	mg/m3	<0.001	
14-Jun	***Lead***	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	mg/m3	<0.001	Dup
15-Jun	***Asbestos***	<0.005	<0.005	<0.005	<0.005	<0.005	S/cc	<0.001	Dup
16-Jun	***PCP***	<0.2	<0.2	<0.2	<0.2	<0.2	mg/m3	<0.001	Dup
17-Jun	***PAHs***	<0.00079	<0.00079	<0.00079	<0.00079	<0.00079	mg/m3	<0.001	Dup
18-Jun							mg/m3	<0.001	
21-Jun	***dust***	<0.042	<0.042	<0.042	<0.042	<0.042	mg/m3	<0.001	Dup
22-Jun	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	mg/m3	<0.001	
23-Jun	***PCBs***	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063	mg/m3	<0.001	
24-Jun	--	--	--	--	--	--	--	--	
25-Jun	--	--	--	--	--	--	--	--	Day off
28-Jun	***PAHs***	<0.001	<0.001	<0.001	<0.001	<0.001	mg/m3	<0.001	
29-Jun	***PCP***	<0.17	<0.17	--	--	<0.17	mg/m3	<0.001	Malfuntion
30-Jun	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	--	mg/m3	<0.001	
July									
	--	--	--	--	--	--	--	--	
1-Jul	***Lead***	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	mg/m3	<0.001	
2-Jul	--	--	--	--	--	--	mg/m3	<0.001	

TABLE H-2
AOC 4 Removal Action
Analytical Results
Topock Compressor Station

Date	Analysis	Location/Results					units	Hand Held	Notes
		N	S	E	W	Blk		(Medium)	
5-Jun	--	--	--	--	--	--	mg/m3	<0.001	Holiday
6-Jun	***asbestos***	<0.0044	<0.0044	<0.0044	--	--	S/cc	<0.001	
7-Jun	***dust***	<0.044	<0.044	<0.044	<0.044	--	mg/m3	<0.001	
8-Jun	***PCBs***	<0.00081	<0.00081	<0.00081	<0.00081	--	mg/m3	<0.001	
9-Jun							mg/m3	<0.001	
12-Jul	--								No earth work
13-Jul	***PAHs***	<0.00082	<0.00082	<0.00082	<0.00082		mg/m3	<0.001	
14-Jul	***PCP***	<0.19	<0.19	--	<0.19		mg/m3	<0.001	
15-Jul	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	--	mg/m3	<0.001	
16-Jul							mg/m3	<0.001	
19-Jul	***dust***	<0.047	<0.047	<0.047	<0.047		mg/m3	<0.001	
20-Jul	***Lead***	<0.0036	<0.0036	<0.0036	<0.0036		mg/m3	<0.001	
21-Jul	***pcb's***	<0.00087	<0.00087	<0.00087	<0.00087		mg/m3	<0.001	
22-Jul	--	--	--	--	--	--	mg/m3	<0.001	
23-Jul									scheduled day off
26-Jul	***pcp***	<0.21	<0.21	<0.21	<0.21	--	mg/m3	<0.001	
27-Jul	***dioxin***	<40	<40	<40	<40	<40	mg/m3	<0.001	
28-Jul	***cr***	<0.0002	<0.0002	<0.0002	<0.0002	--	mg/m3	<0.001	
29-Jul	***asbestos***	<0.0042	<0.0042	<0.0042	<0.0042	--	S/cc	<0.001	
30-Jul	--	--	--	--	--	--	mg/m3	<0.001	
August									
2-Aug	--	--	--	--	--	--	mg/m3	<0.001	
3-Aug	***Lead***	<0.0034	<0.0034	<0.0034	<0.0034	--	mg/m3	<0.001	dup
4-Aug	***dust***	<0.047	<0.047	0.069	<0.047	--	mg/m3	<0.001	
5-Aug	***pcb's***	<0.00093	<0.00093	<0.00093	<0.00093	--	mg/m3	<0.001	dup
6-Aug									
9-Aug	***asbestos***	<0.0045	<0.0045	<0.0045	<0.0045	--	S/cc	<0.001	
10-Aug	***PAHs***	<0.00093	<0.00090	<0.00088	<0.00088	<0.00093	mg/m3	<0.001	dup
11-Aug	***PCP***	<0.24	<0.24	<0.24	<0.24	<0.24	mg/m3	<0.001	dup
12-Aug	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	--	mg/m3	<0.001	dup
13-Aug	--	--	--	--	--	--	mg/m3	<0.001	
16-Aug	***dust***	0.061	<0.046	<0.046	<0.046		mg/m3	<0.001	

TABLE H-2
AOC 4 Removal Action
Analytical Results
Topock Compressor Station

Date	Analysis	Location/Results					units	Hand Held	Notes
		N	S	E	W	Blk		(Medium)	
17-Aug	***PCBs***	<0.00069	<0.00068	<0.00069	<0.00069	<0.00069	mg/m3	<0.001	dup
18-Aug	***Lead***	<0.005	<0.005	<0.005	<0.005	--	mg/m3	<0.001	
19-Aug	**--**	--	--	--	--	--	mg/m3	<0.001	
20-Aug									Day off
23-Aug	***asbestos***	--	<0.0047	<0.0047	<0.0047	--	S/cc	<0.001	
24-Aug	***dust***	<0.046	<0.046	<0.046	<0.046	--	mg/m3	<0.001	
25-Aug	**--**	--	--	--	--	--	mg/m3	<0.001	
26-Aug	***Cr***	--	<0.20	<0.20	<0.20	--	mg/m3	<0.001	
27-Aug									
30-Aug	***Lead***	<0.0035	<0.0035	<0.0035	<0.0035	--	mg/m3	<0.001	
31-Aug	***Dust***	<0.046	<0.046	<0.046	<0.046	--	mg/m3	<0.001	
September									
1-Sep	***PCP***	<0.22	<0.22	<0.22	<0.22	--	mg/m3	<0.001	
2-Sep	***Asbestos***	<0.0049	<0.0049	<0.0049	<0.0049	--	S/cc	<0.001	
3-Sep	**--**	--	--	--	--	--	mg/m3	<0.001	
6-Sep	**--**	--	--	--	--	--			day off
7-Sep	**--**	--	--	--	--	--	mg/m3	<0.001	Rain
8-Sep	***Asbestos***	--	--	<0.0046	<0.0046	--	S/cc	<0.001	
9-Sep	***Cr***	--	<0.0002	<0.0002	<0.0002	--	mg/m3	<0.001	
10-Sep	**--**	--	--	--	--	--	mg/m3	<0.001	
13-Sep									
14-Sep	***pah's***	<0.00076	<0.00076	<0.00076	<0.00076	--	mg/m3	<0.001	
15-Sep	***Lead***	<0.003	<0.003	<0.003	<0.003	--	mg/m3	<0.001	
16-Sep	***dust***	0.054	<0.044	0.06	0.049	--	mg/m3	<0.001	
17-Sep	**--**	--	--	--	--	--			day off
20-Sep	***dust***	<0.041	<0.041	<0.041	<0.041	--	mg/m3	<0.001	
21-Sep	**--**	--	--	--	--	--	mg/m3	<0.001	
22-Sep	***Asbestos***	<0.0042	<0.0042	<0.0042	<0.0042	--	S/cc	<0.001	
23-Sep	***pcb's***	<0.00086	<0.00086	<0.00086	<0.00086	--	mg/m3	<0.001	
24-Sep	**--**	--	--	--	--	--	mg/m3	<0.001	
27-Sep	**--**	--	--	--	--	--	mg/m3	<0.001	
28-Sep	**--**	--	--	--	--	--	mg/m3	<0.001	

TABLE H-2
AOC 4 Removal Action
Analytical Results
Topock Compressor Station

Date	Analysis	Location/Results N	S	E	W	Blk	units	Hand Held (Medium)	Notes
29-Sep	***Lead***	<0.0037	<0.0037	<0.0037	<0.0037	--	mg/m3	<0.001	
30-Sep	**--**	--	--	--	--	--	mg/m3	<0.001	
October									
1-Oct	**--**	--	--	--	--	--	mg/m3	<0.001	
4-Oct	**--**	--	--	--	--	--	mg/m3	<0.001	
5-Oct	***dust***	<0.05	<0.05	<0.05	0.084	--	mg/m3	<0.001	
6-Oct	***asb***	<0.0044	<0.0044	<0.0044	<0.0044	--	mg/m3	<0.001	
7-Oct	***PCP***	<0.18	--	<0.18	<0.18	--	mg/m3	<0.001	
8-Oct	**--**	--	--	--	--	--	S/cc	<0.001	
11-Oct	**--**	--	--	--	--		mg/m3	<0.001	
12-Oct	**--**	--	--	--	--	--	mg/m3	<0.001	
13-Oct	***Lead***	<0.0037	<0.0037	<0.0037	<0.0037	--	mg/m3	<0.001	
13-Oct	***PCBs***	<0.00067	<0.00067	--	<0.00067	--	mg/m3	<0.001	
14-Oct	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	--	mg/m3	<0.001	
15-Oct	**--**								day off
18-Oct	**--**						mg/m3	<0.001	
19-Oct	***asb***	<0.0045	<0.0045	<0.0045	<0.0045	--	mg/m3	<0.001	
20-Oct	**--**	--	--	--	--	--	mg/m3	<0.001	Rain
21-Oct	***Cr***	<0.0002	<0.0002	<0.0002	<0.0002	--	mg/m3	<0.001	
22-Oct	**--**	--	--	--	--	--	mg/m3	<0.001	
25-Oct	**--**	--	--	--	--	--	mg/m3	<0.001	
26-Oct	***Dust***	**0.223**	--	**0.066**	**0.063**	--	mg/m3	<0.001	Demob from area
27-Oct	***Lead***	<0.0038	--	<0.0038	<0.0038	--	mg/m3	<0.001	
28-Oct	***Cr***	--	--	<0.0002	<0.0002	--	mg/m3	<0.001	
29-Oct	**--**	--	--	--	--	--	mg/m3	<0.001	
November									
1-Nov									Week off pending results
2-Nov									
3-Nov									
4-Nov									
5-Nov									
8-Nov									No earthwork

TABLE H-2
AOC 4 Removal Action
Analytical Results
Topock Compressor Station

Date	Analysis	Location/Results					units	Hand Held (Medium)	Notes
		N	S	E	W	Blk			
9-Nov									Final soil dioxins pass
10-Nov									
11-Nov									
12-Nov									

Notes:
NS: Not Samples
R: Rain no sampling
PF pump failure
Dioxins based on Toxic Equivalencies
Dup indicates duplicate sample collected
-- no schedule sampling event