Count: 4 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BURBANK	1003878774	DUNRITE METAL PLATING	3055 CALIFORNIA ST	91505	CERC-NFRAP
BURBANK	S117624723	PACIFIC AIRMOTIVE CORPORATION	2940/2840 NORTH HOLLYWOOD WY	91505	SLIC
NORTH HOLLYWOOD	S100833437	SAN FERNANDO VALLEY GROUND WATER B	NORTH HOLLYWOOD AREA	91606	CA BOND EXP. PLAN, CHMIRS
SUN VALLEY	S110275514	SUPERIOR PLATING	4001 GLENOAKS BOULEVARD	91352	ENVIROSTOR

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/21/2014
Date Data Arrived at EDR: 10/07/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/03/2014
Date Data Arrived at EDR: 12/12/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 09/30/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 37

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/12/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 6

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/12/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/12/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 6

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/12/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/16/2015
Date Data Arrived at EDR: 02/17/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 14

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/17/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 01/28/2015
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 42

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/10/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 31

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 01/30/2015
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 32

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/26/2015
Number of Days to Update: 8

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/30/2015
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 36

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/29/2015
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 42

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/13/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/12/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 6
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/12/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2014
Date Data Arrived at EDR: 12/22/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 38
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/24/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/23/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/26/2015
Number of Days to Update: 8
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 04/04/2015
Date Data Arrived at EDR: 04/07/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 6
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/02/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/03/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/12/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 6

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/12/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 8

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/13/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/03/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/13/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 11

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 8

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/10/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/29/2014
Date Data Arrived at EDR: 12/30/2014
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 69

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 01/21/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/28/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/03/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 8

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 24

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/10/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/27/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 12/30/2014
Date Data Arrived at EDR: 12/31/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 01/29/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/27/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/10/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/09/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/17/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 12/29/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 21

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 02/27/2015
Date Data Arrived at EDR: 02/27/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/09/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015
Date Data Arrived at EDR: 02/27/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 26

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/24/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Biennially

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 03/12/2015
Date Data Arrived at EDR: 03/13/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 11

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 11/19/2014
Date Data Arrived at EDR: 12/15/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 45
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/20/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 04/10/2015
Number of Days to Update: 10
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: No Update Planned

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 02/18/2015
Date Data Arrived at EDR: 02/20/2015
Date Made Active in Reports: 03/12/2015
Number of Days to Update: 20
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Annually

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/26/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/19/2014
Number of Days to Update: 35

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/17/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 03/25/2014
Date Made Active in Reports: 04/28/2014
Number of Days to Update: 34

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/27/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/18/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: N/A

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/13/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/10/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 02/02/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 25

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/13/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Varies

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/17/2015
Date Data Arrived at EDR: 02/20/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 11

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 01/16/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/10/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/15/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/13/2015
Date Data Arrived at EDR: 04/15/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 8

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/15/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 7

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/21/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/21/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/24/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 7

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 11/20/2014
Date Data Arrived at EDR: 11/24/2014
Date Made Active in Reports: 01/07/2015
Number of Days to Update: 44

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/05/2015
Date Made Active in Reports: 03/10/2015
Number of Days to Update: 5

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/11/2014
Date Data Arrived at EDR: 06/13/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 24

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 7

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 02/02/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 6

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

EL DORADO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/24/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 6

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 02/02/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 03/31/2015
Date Data Arrived at EDR: 04/15/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 8

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/06/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/13/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 11

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/10/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 19

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/22/2014
Date Data Arrived at EDR: 11/12/2014
Date Made Active in Reports: 12/19/2014
Number of Days to Update: 37

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 04/16/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 7

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 04/10/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/20/2015
Date Data Arrived at EDR: 01/21/2015
Date Made Active in Reports: 02/05/2015
Number of Days to Update: 15

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/16/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/24/2014
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 33

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/13/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/19/2015
Date Data Arrived at EDR: 01/20/2015
Date Made Active in Reports: 02/05/2015
Number of Days to Update: 16

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/20/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/15/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/15/2015
Date Data Arrived at EDR: 01/29/2015
Date Made Active in Reports: 03/10/2015
Number of Days to Update: 40

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 03/06/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 01/29/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 13

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/27/2015
Number of Days to Update: 12

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/13/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/20/2015
Date Data Arrived at EDR: 03/24/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 7

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 10/08/2014
Date Data Arrived at EDR: 10/22/2014
Date Made Active in Reports: 12/15/2014
Number of Days to Update: 54

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 04/15/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 7

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 02/27/2015
Date Data Arrived at EDR: 03/06/2015
Date Made Active in Reports: 03/10/2015
Number of Days to Update: 4

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 03/19/2015
Date Data Arrived at EDR: 03/20/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 11

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/12/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 18

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 02/06/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 18

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 18

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 13

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/12/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/28/2015
Date Data Arrived at EDR: 01/29/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 33

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/28/2015
Date Data Arrived at EDR: 01/29/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 28

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/02/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 04/16/2015
Number of Days to Update: 8

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/02/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 04/16/2015
Number of Days to Update: 8

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 03/02/2015
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/10/2015
Number of Days to Update: 7

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/10/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2014
Date Data Arrived at EDR: 11/21/2014
Date Made Active in Reports: 12/29/2014
Number of Days to Update: 38

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/24/2015
Date Data Arrived at EDR: 03/25/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 6
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 7
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 04/13/2015
Date Data Arrived at EDR: 04/15/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 8
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/16/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/17/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 7
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 6

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 8

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 11/24/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 12/31/2014
Number of Days to Update: 36

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/13/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 11

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 5

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/20/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 11

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 03/31/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/10/2015
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/01/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 8

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/30/2015
Date Data Arrived at EDR: 02/03/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 24

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 01/27/2015
Date Data Arrived at EDR: 02/19/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 12

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/29/2014
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 32

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/26/2015
Number of Days to Update: 8

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/18/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 04/01/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 12

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/17/2015
Date Data Arrived at EDR: 02/19/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 12

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/17/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2015
Date Data Arrived at EDR: 02/04/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/04/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/16/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

3003 NORTH HOLLYWOOD WAY
3003 NORTH HOLLYWOOD WAY
BURBANK, CA 91505

TARGET PROPERTY COORDINATES

Latitude (North):	34.2033 - 34° 12' 11.88''
Longitude (West):	118.35 - 118° 20' 60.00''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	375621.1
UTM Y (Meters):	3785326.5
Elevation:	715 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	34118-B3 BURBANK, CA
Most Recent Revision:	1994

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

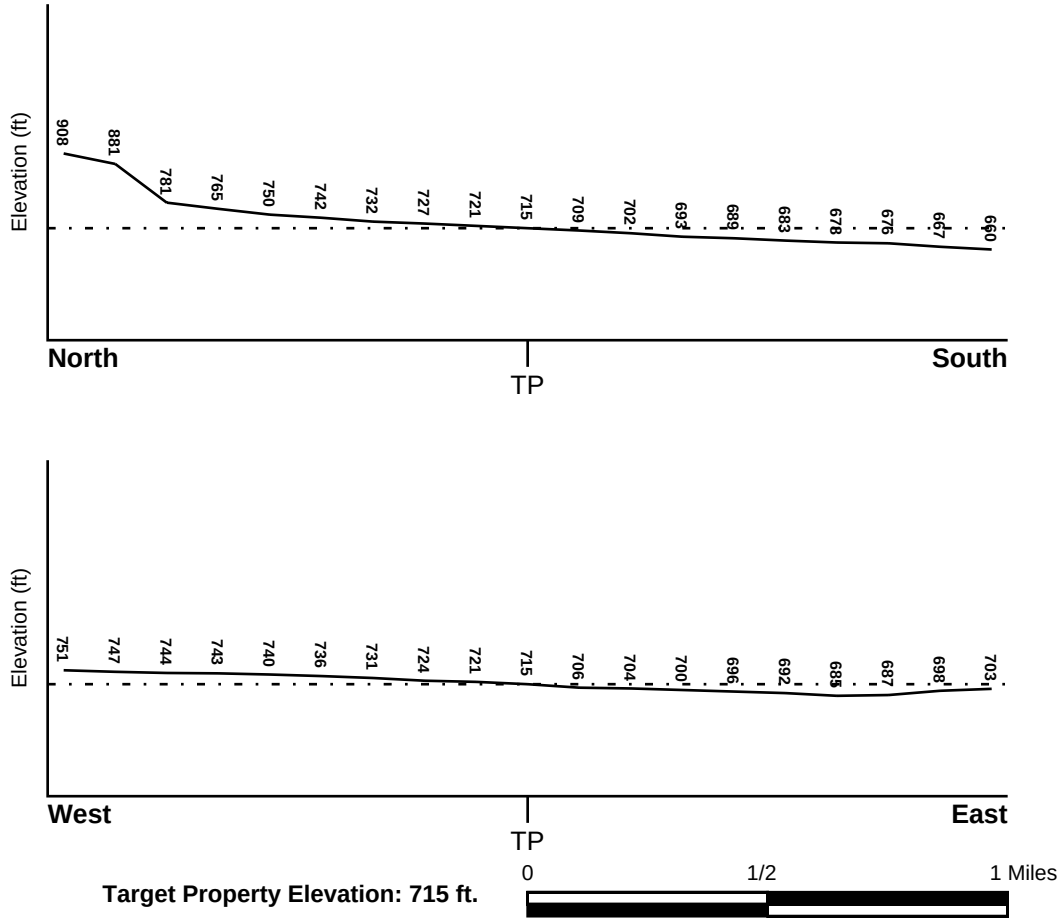
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06037C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BURBANK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Surficial Soil Types:
loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Shallow Soil Types:
fine sandy loam
gravelly - loam
sand
silty clay

Deeper Soil Types:
stratified
clay loam
silty clay loam
gravelly - sandy loam
coarse sand
sand
weathered bedrock
very fine sandy loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
12	USGS40000142411	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

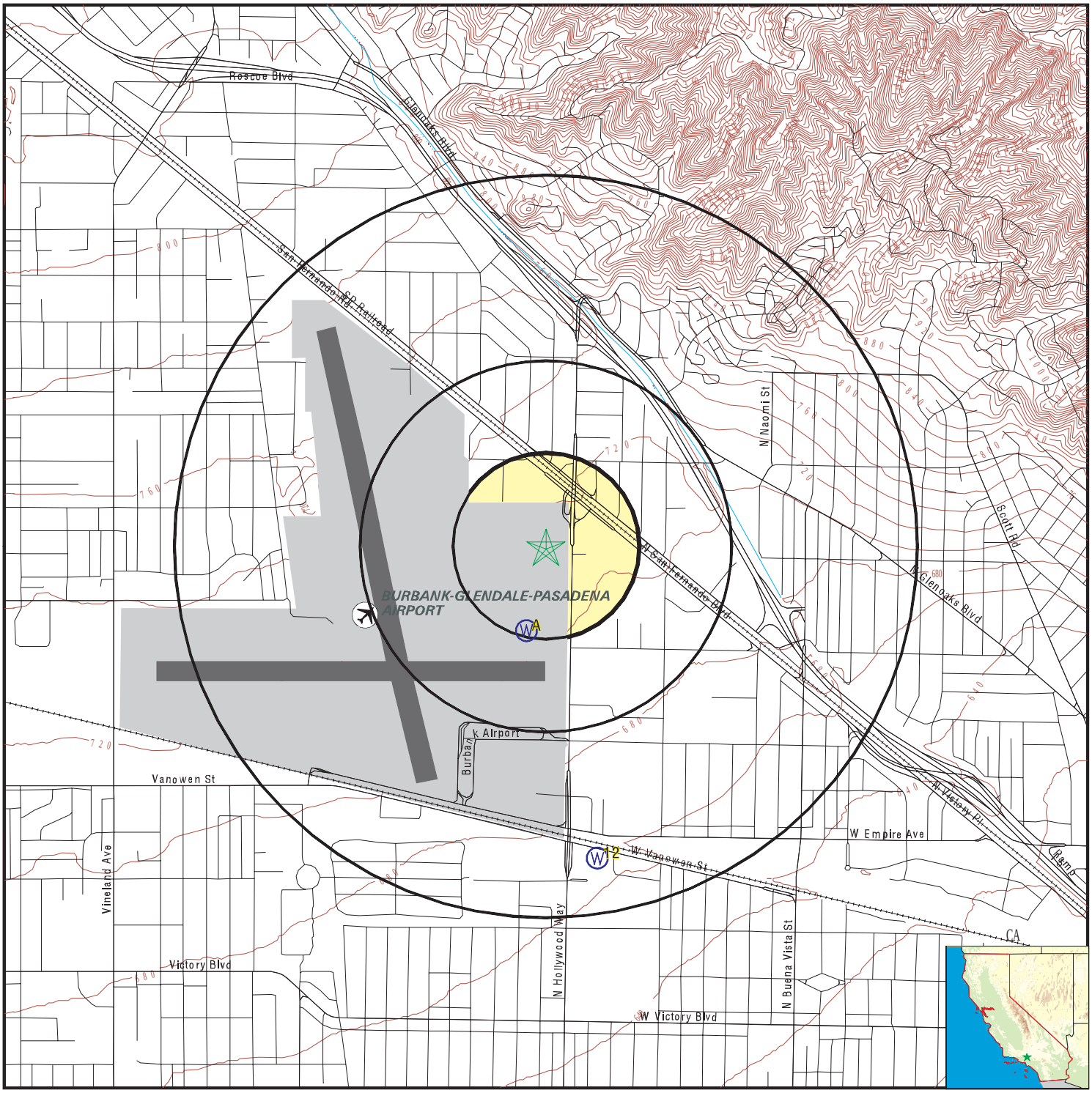
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	22959	1/8 - 1/4 Mile SSW
A2	22958	1/8 - 1/4 Mile SSW
A3	22960	1/8 - 1/4 Mile SSW
A4	576	1/8 - 1/4 Mile SSW
A5	573	1/8 - 1/4 Mile SSW
A6	22957	1/8 - 1/4 Mile SSW
A7	22939	1/8 - 1/4 Mile SSW
A8	22938	1/8 - 1/4 Mile SSW
A9	22940	1/8 - 1/4 Mile SSW
A10	22956	1/8 - 1/4 Mile SSW
A11	22941	1/8 - 1/4 Mile SSW

PHYSICAL SETTING SOURCE MAP - 4279813.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	3003 North Hollywood Way	CLIENT:	Ardent Environmental Group
ADDRESS:	3003 North Hollywood Way Burbank CA 91505	CONTACT:	Connie Lizarraga
LAT/LONG:	34.2033 / 118.35	INQUIRY #:	4279813.2s
		DATE:	April 29, 2015 7:40 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
SSW **CA WELLS** **22959**
1/8 - 1/4 Mile
Lower

Water System Information:

Prime Station Code:	G19/179-VOACP4C	User ID:	4TH
FRDS Number:	1910179016	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Combined Treated
Source Lat/Long:	341200.0 1182100.0	Precision:	1 Mile (One Minute)
Source Name:	GAC - PORT 3 - ADSORBER C		
System Number:	1910179		
System Name:	BURBANK-CITY, WATER DEPT.		
Organization That Operates System:			
	PO BOX 631		
	BURBANK, CA 91503		
Pop Served:	93643	Connections:	25731
Area Served:	BURBANK		

A2
SSW **CA WELLS** **22958**
1/8 - 1/4 Mile
Lower

Water System Information:

Prime Station Code:	G19/179-VOACP4B	User ID:	4TH
FRDS Number:	1910179015	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Combined Treated
Source Lat/Long:	341200.0 1182100.0	Precision:	1 Mile (One Minute)
Source Name:	GAC - PORT 3 - ADSORBER B		
System Number:	1910179		
System Name:	BURBANK-CITY, WATER DEPT.		
Organization That Operates System:			
	PO BOX 631		
	BURBANK, CA 91503		
Pop Served:	93643	Connections:	25731
Area Served:	BURBANK		

A3
SSW **CA WELLS** **22960**
1/8 - 1/4 Mile
Lower

Water System Information:

Prime Station Code:	G19/179-VOACP4D	User ID:	4TH
FRDS Number:	1910179017	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Combined Treated
Source Lat/Long:	341200.0 1182100.0	Precision:	1 Mile (One Minute)
Source Name:	GAC - PORT 3 - ADSORBER D		

System Number: 1910179
System Name: BURBANK-CITY, WATER DEPT.
Organization That Operates System:
PO BOX 631
BURBANK, CA 91503
Pop Served: 93643 Connections: 25731
Area Served: BURBANK

A4
SSW **CA WELLS** **576**
1/8 - 1/4 Mile
Lower

Water System Information:
Prime Station Code: 01N/14W-09B04 S User ID: 4TH
FRDS Number: 1910179010 County: Los Angeles
District Number: 07 Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type: Well/Groundwater Well Status: Abandoned
Source Lat/Long: 341200.0 1182100.0 Precision: Undefined
Source Name: WELL 17 - ABANDONED
System Number: 1910179
System Name: BURBANK-CITY, WATER DEPT.
Organization That Operates System:
PO BOX 631
BURBANK, CA 91503
Pop Served: 93643 Connections: 25731
Area Served: BURBANK

A5
SSW **CA WELLS** **573**
1/8 - 1/4 Mile
Lower

Water System Information:
Prime Station Code: 01N/14W-09A03 S User ID: 4TH
FRDS Number: 1910179008 County: Los Angeles
District Number: 07 Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type: Well/Groundwater Well Status: Abandoned
Source Lat/Long: 341200.0 1182100.0 Precision: Undefined
Source Name: WELL 14-A - ABANDONED
System Number: 1910179
System Name: BURBANK-CITY, WATER DEPT.
Organization That Operates System:
PO BOX 631
BURBANK, CA 91503
Pop Served: 93643 Connections: 25731
Area Served: BURBANK

A6
SSW **CA WELLS** **22957**
1/8 - 1/4 Mile
Lower

Water System Information:
Prime Station Code: G19/179-VOACP4A User ID: 4TH
FRDS Number: 1910179014 County: Los Angeles
District Number: 07 Station Type: WELL/AMBNT/MUN/INTAKE
Water Type: Well/Groundwater Well Status: Combined Treated
Source Lat/Long: 341200.0 1182100.0 Precision: 1 Mile (One Minute)
Source Name: GAC - PORT 3 - ADSORBER A

System Number: 1910179
System Name: BURBANK-CITY, WATER DEPT.
Organization That Operates System:
PO BOX 631
BURBANK, CA 91503
Pop Served: 93643 Connections: 25731
Area Served: BURBANK

A7
SSW **CA WELLS** **22939**
1/8 - 1/4 Mile
Lower

Water System Information:
Prime Station Code: G19/179-VOACBEF User ID: 4TH
FRDS Number: 1910179018 County: Los Angeles
District Number: 07 Station Type: WELL/AMBNT/MUN/INTAKE
Water Type: Well/Groundwater Well Status: Combined Treated
Source Lat/Long: 341200.0 1182100.0 Precision: 1 Mile (One Minute)
Source Name: WELL 07 & 15 -GAC-ADSORBER B - EFFLUENT
System Number: 1910179
System Name: BURBANK-CITY, WATER DEPT.
Organization That Operates System:
PO BOX 631
BURBANK, CA 91503
Pop Served: 93643 Connections: 25731
Area Served: BURBANK

A8
SSW **CA WELLS** **22938**
1/8 - 1/4 Mile
Lower

Water System Information:
Prime Station Code: G19/179-VOACAEF User ID: 4TH
FRDS Number: 1910179012 County: Los Angeles
District Number: 07 Station Type: WELL/AMBNT/MUN/INTAKE
Water Type: Well/Groundwater Well Status: Combined Treated
Source Lat/Long: 341200.0 1182100.0 Precision: 1 Mile (One Minute)
Source Name: WELLS 7 & 15 - GAC-ADSORBER-A-EFFLUENT
System Number: 1910179
System Name: BURBANK-CITY, WATER DEPT.
Organization That Operates System:
PO BOX 631
BURBANK, CA 91503
Pop Served: 93643 Connections: 25731
Area Served: BURBANK

A9
SSW **CA WELLS** **22940**
1/8 - 1/4 Mile
Lower

Water System Information:
Prime Station Code: G19/179-VOACCEF User ID: 4TH
FRDS Number: 1910179019 County: Los Angeles
District Number: 07 Station Type: WELL/AMBNT/MUN/INTAKE
Water Type: Well/Groundwater Well Status: Combined Treated
Source Lat/Long: 341200.0 1182100.0 Precision: 1 Mile (One Minute)
Source Name: WELLS 07 & 15 - GAC-ADSORBER C-EFFLUENT

System Number: 1910179
System Name: BURBANK-CITY, WATER DEPT.
Organization That Operates System:
PO BOX 631
BURBANK, CA 91503
Pop Served: 93643 Connections: 25731
Area Served: BURBANK

A10
SSW **CA WELLS** **22956**
1/8 - 1/4 Mile
Lower

Water System Information:
Prime Station Code: G19/179-VOACINF User ID: 4TH
FRDS Number: 1910179021 County: Los Angeles
District Number: 07 Station Type: WELL/AMBNT/MUN/INTAKE
Water Type: Well/Groundwater Well Status: CU
Source Lat/Long: 341200.0 1182100.0 Precision: 1 Mile (One Minute)
Source Name: WELLS 07 & 15 - GAC-COMMON INFLUENT
System Number: 1910179
System Name: BURBANK-CITY, WATER DEPT.
Organization That Operates System:
PO BOX 631
BURBANK, CA 91503
Pop Served: 93643 Connections: 25731
Area Served: BURBANK

A11
SSW **CA WELLS** **22941**
1/8 - 1/4 Mile
Lower

Water System Information:
Prime Station Code: G19/179-VOACDEF User ID: 4TH
FRDS Number: 1910179020 County: Los Angeles
District Number: 07 Station Type: WELL/AMBNT/MUN/INTAKE
Water Type: Well/Groundwater Well Status: Combined Treated
Source Lat/Long: 341200.0 1182100.0 Precision: 1 Mile (One Minute)
Source Name: WELLS 07 & 15 - GAC-ADSORBER D-EFFLUENT
System Number: 1910179
System Name: BURBANK-CITY, WATER DEPT.
Organization That Operates System:
PO BOX 631
BURBANK, CA 91503
Pop Served: 93643 Connections: 25731
Area Served: BURBANK

12
South **FED USGS** **USGS40000142411**
1/2 - 1 Mile
Lower

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-341128118204801		
Monloc name:	001N014W09A003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070105	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.1911164
Longitude:	-118.3475787	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	830
Welldepth units:	ft	Wellholedepth:	860
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91505	56	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

APPENDIX G

RESUMES

RESUME OF PAUL A. ROBERTS
Principal Geologist

EDUCATION

Bachelor of Science, Geology, 1987, California State University, Fullerton, California

REGISTRATION AND CERTIFICATIONS

Professional Geologist, California PG 6897
Registered Geologist, Arizona RG 42445
Ventura County Well Inspector
OSHA 40-Hour Health and Safety Training (with annual updates)
OSHA 8-Hour Health and Safety Supervisor Training

EMPLOYMENT HISTORY

1986-1996 – Applied Geosciences Inc. (environmental consulting)
1996-1998 – ATC Associates (environmental consulting)
1998-2007 – Ninyo & Moore (environmental consulting)
2007-present – Ardent Environmental Group, Inc. (environmental consulting)

PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES

As a Principal Geologist for Ardent Environmental Group, Inc., Mr. Roberts coordinates geotechnical and geologic field evaluations and supervises field technicians and staff- and project-level geologists and engineers, reviews historical stereoscopic aerial photographs, fire insurance maps, and other historical documentation to assess the location and possible environmental affects of former features on subject properties, interacts with clients, attorneys, and agency representatives. Mr. Roberts also performs geologic and hydrogeological research and performs detailed logging and sampling of trenches, and large- and small-diameter borings. Mr. Roberts is very familiar with mud- and air-rotary, sonic, direct-push, and hollow stem auger drilling technics. Mr. Roberts interprets geophysical data to evaluate the possible presence of covered underground features such as underground storage tanks, clarifiers, sumps, and wells which may have had an environmental impact on subject properties, writes and reviews geologic reports work plans, Phase I Environmental Site Assessments, risk assessments, subsurface investigation reports, monitoring reports, feasibility studies, and remediation reports.

- **Former Chemical Plant, Santa Fe Springs:** Principal Geologist retained to log and sample deep borings for the installation of groundwater wells used to characterize the vertical and lateral extent of volatile organic compound (VOC) impacted groundwater. Sonic, mud-rotary, and hollow stem auger drilling methods were used to drill borings to depths of up to 400 feet below the ground surface (bgs).

- **Port of Los Angeles:** Project Geologist managing several environmental projects for the Port of Los Angeles (POLA) under an on-call contract. Project Geologist interacting with POLA personnel regarding environmental issues associated with land purchases, tenant

audits, and on-call remediation. Projects have involved removal of underground storage tanks at the Yang Ming Terminal and continued groundwater monitoring, and the implementation of a corrosion study at a potential automobile storage yard in the Port of Los Angeles.

- **Alameda Corridor Transportation Authority:** Project Geologist managing numerous environmental projects under an on-call remediation services contract. Projects have involved remediation of petroleum pipelines and impacted soil discovered during construction activities of the Alameda Corridor. One project involved dredging metal-impacted soil from the Port of Los Angeles, where Mr. Roberts acted as the liaison between POLA and ACTA representatives.

- **Riverside County Transportation Commission (RCTC):** Project manager for several projects for RCTC including a Phase I Environmental Site Assessment (ESAs) of the AT&SF ROW from mile post 26.93 to MP 38.2 along the San Jacinto subdivision in Riverside County, California; and Phase I ESAs and assessment and remediation of contaminated soil at proposed Metrolink station in the cities of Corona and Riverside.

- **Los Angeles Unified School District (LAUSD):** Project manager for the completion of Phase I Environmental Site Assessments at several proposed elementary school sites throughout Los Angeles county. Mr. Roberts also managed on-going monitoring of lithological pressure readings of an oil well located on the Belmont High School property. This work was completed under the direction and oversight of the Division of Oil, Gas, and Geothermal Resources.

- **Jack in the Box and Qdoba Restaurants:** Project Geologist managing numerous Phase I Environmental Site Assessments regarding real estate transactions for two major fast food restaurants. Since most of the properties are corner parcels which contained historical gasoline stations, Mr. Roberts would subsequently manage and conduct Phase II Subsurface Investigations to assess whether impacted soil and/or groundwater exists at the site and, if present, characterize the extent of the contaminants. In June 2012, Jack in the Box Inc. and Qdoba awarded Ardent Environmental Group, Inc. an on-call environmental management contract for all Jack in the Box and Qdoba properties throughout the United States. Mr. Roberts is the Project Manager for this contract which includes completing Preliminary Environmental Reviews of possible property acquisitions, completing and managing Phase I and Phase II Environmental Site Assessments and asbestos surveys, and on-call consultation regarding environmental issues and concerns.

- **Environmental Site Assessment:** Project Geologist managing environmental assessment, site characterization, and site remediation for a property located in the city of Santa Fe Springs, California. Historical aerial photographs, information obtained from the Division of Oil, Gas, and Geothermal Resources, and other data were used to assess the possible location of historical oil field activities and to design a site characterization plan. Following assessment of the volume of impacted soil, bid specifications were developed and site remediation was conducted.

- **Industrial Site Located in Riverside, California:** Project Geologist managing the subsurface investigation and characterization of an industrial site in Riverside, California. Groundwater monitoring wells and vapor extraction wells were installed in soil borings

during site characterization. Utilizing equipment supplied by the client, a vapor extraction system was designed and installed at the site.

- **Remediation at Sites in Rancho Dominguez, Commerce, La Mirada, and Riverside, California.** Project Geologist managing the design and installation of many vapor extraction pilot wells for use in feasibility studies. The feasibility studies defined different soil parameters so that a vapor extraction system, including vapor extraction wells, could be designed. Services included management, design, and installation of vapor extraction wells for use in remediation at sites in Rancho Dominguez, Commerce, La Mirada, and Riverside, California.

ASSOCIATIONS

The Geological Society of America

RESUME OF CONNIE LIZARRAGA
Senior Staff Environmental Scientist

EDUCATION

Bachelor of Science, Environmental Science, 2007, University of California, Riverside

EMPLOYMENT HISTORY

2005-2006 – Environmental Research Institute (environmental program management)
2006-2006 – Center for Environmental Research and Technology (research development)
2006-2007 – Regional Water Quality Control Board, Santa Ana Region (storm water regulation)
2008-present – Ardent Environmental Group, Inc. (environmental consulting)

PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES

As a Senior Staff Environmental Scientist for Ardent Environmental Group, Inc., Ms. Lizarraga conducts a variety of field and office tasks in support of environmental assessment, site characterization, and remediation projects using the principles of chemistry, geology, geography, and engineering. Tasks include development of work plans, collection of field data, sample collection, groundwater monitoring well installation and abandonment, research and review of regulatory records and historical land use records, directing subcontractors, data evaluation, and technical report preparation. Ms. Lizarraga's project experience includes:

- **Groundwater Monitoring and Vapor Extraction Well Installation:** Installed a number of groundwater monitoring wells and vapor extraction wells at properties throughout Southern California for the characterization of impacted groundwater and remediation of impacted soil. These tasks include obtaining construction permits, interactions with regulatory agencies, directing drilling contractors, and designing well construction. Following installation, groundwater monitoring wells are developed by various methods including bailing, surging, and pumping, using air lift and submersible pumps.

- **Monitoring Well Abandonment:** Senior Staff Scientist for several projects involving the abandonment of groundwater monitoring wells that are no longer part of an active groundwater monitoring program. Duties include obtaining permits, directing subcontractors, and preparation of well closure reports for submittal to regulatory agencies.

- **Groundwater Monitoring:** Perform quarterly groundwater monitoring activities at several facilities including an aerospace manufacturing facility in Torrance, California, a private automobile fueling station in Commerce, California, and a former testing laboratory in Cudahy, California. Ms. Lizarraga also monitoring groundwater monitoring wells installed for the Water Replenishment District of Southern California as part of the Central Basin Groundwater Contamination Study in Santa Fe Springs. Wells are purged of static groundwater using submersible pumps and hand bailers. Groundwater is collected from monitoring wells and sent to a laboratory for analyses on a quarterly basis to determine the effectiveness of remedial actions at the properties. Quarterly monitoring reports are

prepared in accordance with California Regional Water Quality Control Board requirements and are uploaded to the State's GeoTracker website.

- **Phase I Environmental Site Assessment:** Staff scientist for numerous Phase I Environmental Site Assessment reports throughout the state of California. Report preparation includes site reconnaissance activities involving visual site inspection, research and review of regulatory records and historical land use records, and identification of potential environmental concerns and/or impacts to the site.

- **Phase II Site Characterization:** Staff scientist for several projects involving the advancement of soil borings by direct-push and hollow-stem auger methods to assess the nature, magnitude, and extent of soil contamination via sample collection and analyses. These duties also include the conducting soil gas surveys to assess vapor concentrations of methane gas and/or volatile organic compounds for exposition hazards and human health risks.

- **Underground Storage Tank Closure:** Staff Scientist directing subcontractors in the removal of 3,000-gallon and 10,000-gallon fuel underground storage tanks in Los Angeles, California. Tasks involved obtaining permits, coordinating regulatory inspectors and subcontractors, directing field excavation, sample collection, and preparation of a closure report for submittal to the City of Los Angeles Fire Department (LAFD).

- **Moisture Surveys:** Staff scientist for several projects involving moisture surveys, mold abatement clearance inspection, and air sampling collection. Project tasks consisted of moisture surveys using a hand-held moisture meter, visual inspections of mold abatement areas, and the collection of source and background air samples. Moisture survey or mold abatement clearance reports were prepared following receipt of air sample results.

- **Remediation System Monitoring:** Perform weekly monitoring of vapor extraction systems operation at various locations in Southern California. Monitoring is performed to evaluate the progress and efficiency of the vapor extraction systems and to comply with the South Coast Air Quality Management District (SCAQMD) emission monitoring requirements.

- **Geophysical Investigations:** Staff scientist directing subcontractors during geophysical investigations for the purpose of identifying detectable buried underground storage tanks using high sensitivity metal detection equipment, ground penetrating radar, and electromagnetic utility-locating methods.

- **Tenant Exit Environmental Assessments:** Performed numerous environmental assessments of industrial tenants that were in process of vacating a long-term lease. The purpose of the assessments was to identify potential releases of hazardous materials to the buildings or subsurface so that the responsible tenants could deal with the issues prior to vacating the lease.

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G-5 No Further Requirements for Chromium VI Investigation, Image Transform Laboratory

ESA

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California Regional Water Quality Control Board

Los Angeles Region

Terry Tamminen
Secretary for Environmental Protection

320 West Fourth Street, Suite 200, Los Angeles, California 90013
(213) 576-6600 • Fax (213) 576-6640
http://www.swrcb.ca.gov/rwqcb4

Arnold Schwarzenegger
Governor

December 23, 2003

Mr. Raymond Horn
520 Broadway, 5th Fl.
Santa Monica, California, 90401

NO FURTHER REQUIREMENTS FOR CHROMIUM VI INVESTIGATIONIM, IMAGE TRANSFORM LABORATORY, 3611 N. SAN FERNANDO BLVD, BURBANK, CALIFORNIA, 91505 (FILE NO. 104.0563)

Dear Mr. Raymond Horn:

The California Regional Water Quality Control Board, Los Angeles Region (hereinafter Regional Board) has conducted an evaluation of your facility to determine the extent of heavy metal use including chromium compound use and to assess current and past chemical handling, storage and disposal practices. A site inspection was conducted by Regional Board staff on October 24, 2001 to verify site specific information provided in your Chemical Use Questionnaire (CUQ) and to update our historical records for the subject site.

Based on your chemical and material use and other information provided to Regional Board staff during the site inspection, Image Transform Laboratory is among those companies in the San Fernando Valley receiving a Regional Board "No Further Requirements for the Chromium VI investigation" letter. The letter is being issued to Image Transform Laboratory because your facility was placed into one of the following categories: 1) information provided in your CUQ, which disclosed chemicals or materials with little or no chromium compounds; 2) results of the Regional Board staff inspection, which disclosed that the chemicals or materials being used contained little or no chromium compounds; or 3) completed onsite assessment work indicated insignificant or no chromium contaminants in or to the soil.

The purpose of this letter is inform you that, based on the site inspection and other information provided to Regional Board staff, and with the provision that the information was accurate and representative of the site conditions during the site inspection, we have determined that no further requirements are necessary for Image Transform Laboratory regarding the Chromium VI Investigation being conducted in the San Fernando Valley Groundwater Basin. However, if soil and groundwater contamination is encountered during any future activities, you are required to submit a written notification report to this Regional Board within 72 hours of its discovery.

The jurisdictional requirements of other agencies, such as the United States Environmental Protection Agency (USEPA), are not affected by this Regional Board's "No Further Requirements" determination. Such agencies may choose to make their own determination concerning this site.

We would like to take this opportunity to thank you for your full cooperation with the Regional Board during the course of the Chromium VI Investigation. Your patience and willingness to respond to inquiries concerning the investigation are greatly appreciated.

Should you have questions or wish to discuss details, please contact Mr. Dixon Oriola at (213) 576-6803, or Mr. Mohammad Zaidi at (213) 576-6732.

Sincerely,

Dennis A. Dickerson
Executive Officer

cc:

Mr. Robert Sams, Office of the Chief Counsel, SWRCB
Ms. Vera Melnyk Vecchio, California Department of Health Services
Ms. Sayareh Amirebrahimi, Department of Toxic Substances Control
Mr. David Stensby, USEPA Region IX, San Francisco
Mr. Mark Mackowski, Upper Los Angeles River Area Watermaster,
Mr. Roger Baker, City of Burbank Planning Department
Mr. Don Froelich, City of Glendale Water Services Administrator
Mr. Con Howe, City of Los Angeles, Director of Planning
Mr. Andrew Adelman, City of Los Angeles, Department of Building and Safety
Mr. Tom Erb, Water Resources Business Unit Director, City of Los Angeles
Mr. Pankaj Parekh, Environmental Affairs Office, City of Los Angeles

G-6 Additional Site Investigation Report, Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1

ESA

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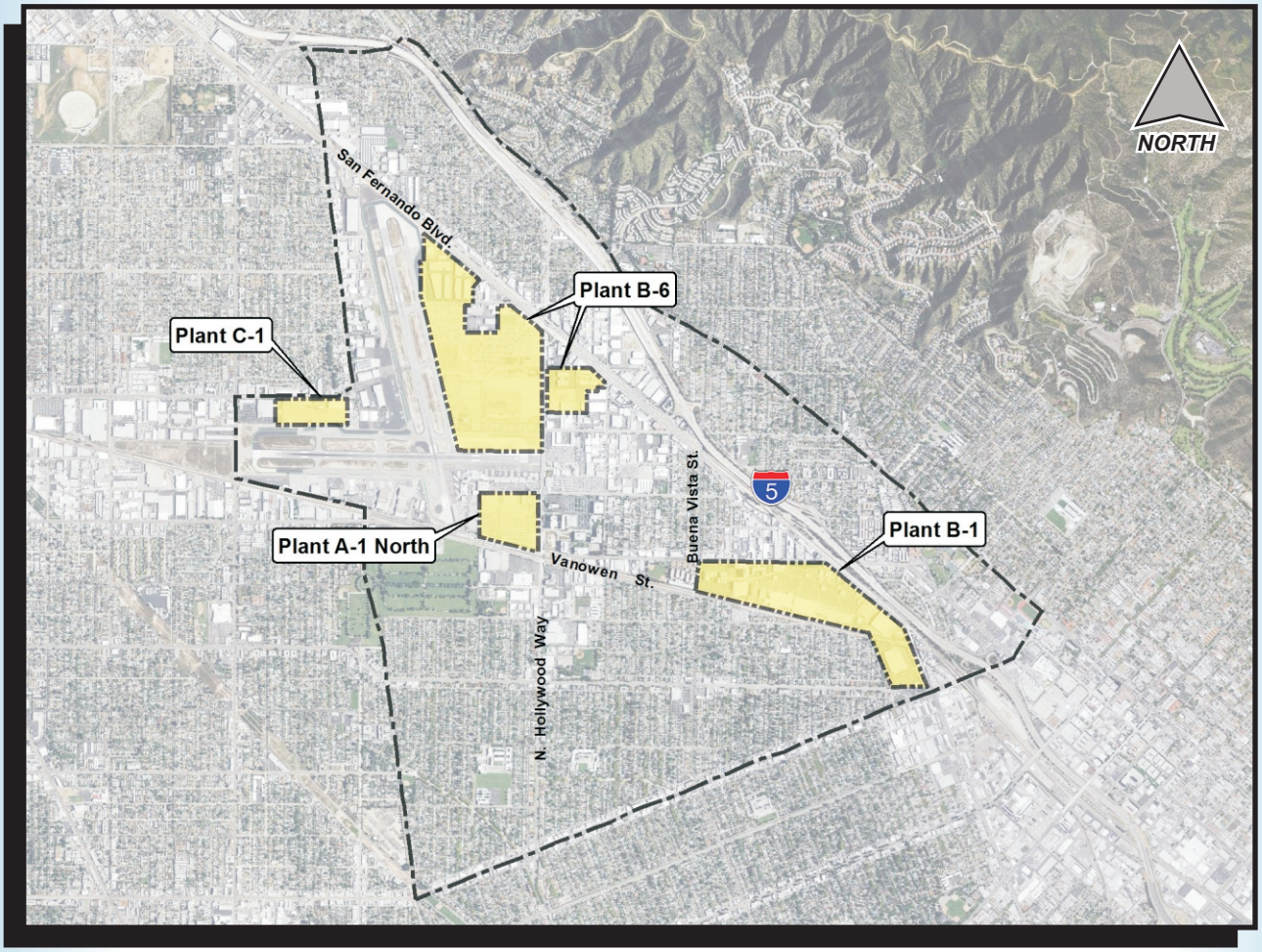
ADDITIONAL SITE INVESTIGATION REPORT FORMER LOCKHEED MARTIN PLANTS A-1 NORTH B-1, B-6, AND C-1, BURBANK, CALIFORNIA

DECEMBER 2014



Prepared for:

LOCKHEED MARTIN

Prepared by:

TETRA TECH
3475 E. Foothill Blvd.
Pasadena, California
TC# 100-PAS-T32955.FP

Lockheed Martin Corporation, Shared Services
Energy, Environment, Safety and Health
2550 North Hollywood Way, Suite 406 Burbank, CA 91505
Telephone: 818.847.0197 Facsimile: 818.847.0256

LOCKHEED MARTIN

December 29, 2014

Via Electronic Mail

Larry Moore
Staff Environmental Scientist
Remediation Section
Los Angeles Regional Water Quality Control Board
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Subject: Response to Order No. R4-2013-0063
Additional Site Investigation Report Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1, Burbank, California

Dear Mr. Moore:

Please find enclosed Lockheed Martin Corporation's (Lockheed Martin) *Additional Site Investigation Report Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1* (Report). This document was prepared in response to Los Angeles Regional Water Quality Control Board (Regional Board) issued Order No. R4-2013-0063 (Order).

Lockheed Martin looks forward to continued communication and is prepared to present a summary of the findings to Regional Board. Lockheed Martin also requests a meeting to discuss the need for additional soil and/or groundwater delineation efforts following the Regional Board's assessment of the data evaluation presented in this report.

If you have any questions regarding the enclosed report, please contact me at (720) 842-6121 or liaht.rosenstein@lmco.com.

Sincerely,

Liaht Rosenstein
Remediation Project Lead
Lockheed Martin Corporation

Enclosure

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ADDITIONAL SITE INVESTIGATION REPORT
FORMER LOCKHEED MARTIN PLANTS A-1 NORTH, B-1, B-6, AND C-1
BURBANK, CALIFORNIA

Prepared for:
Lockheed Martin Corporation
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ACRONYMS AND ABBREVIATIONS

AHCAC	available hexavalent chromium attenuation capacity
AOC	area of concern
AETL	American Environmental Testing Laboratory, Inc.
Airport Authority	Burbank-Glendale-Pasadena Airport Authority
API	American Petroleum Institute
ASTM	American Society for Testing and Materials
AWDS	Abandoned Waste Disposal Site
BOU	Burbank Operable Unit
bgs	below ground surface
CSM	conceptual site model
FAA	Federal Aviation Administration
HSA	hollow-stem auger
HSU	hydrostratigraphic unit
kg	kilogram
Lockheed Martin	Lockheed Martin Corporation
µg/g	micrograms per gram
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
mg	milligram
mg/kg	milligrams per kilogram
NAD 83	North American Datum of 1983
NAVD 88	North American Vertical Datum of 1988
ND	non-detect
OVA	organic vapor analyzer

Order	California Water Code Section 13267 Order No. R4-2013-0063
PCE	tetrachloroethene
PID	photo-ionization detector
ppm	parts per million
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan
Regional Board	Regional Water Quality Control Board Los Angeles
site	former Lockheed Martin Burbank facilities
SFV	San Fernando Valley
SPLP	Synthetic Precipitation Leaching Procedure
SPLP II	Synthetic Precipitation Leaching Procedure using Extraction Fluid #2
SPLP III	Synthetic Precipitation Leaching Procedure using Extraction Fluid #3
SVE	soil vapor extraction
TCE	trichloroethene
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOCs	volatile organic compounds
WT	water table
WTP	water treatment plant

EXECUTIVE SUMMARY

This report summarizes recent soil investigations conducted at the former Lockheed Martin Corporation (Lockheed Martin) Burbank facilities (the site). The site is located within the Burbank Operable Unit (BOU) of the San Fernando Valley Superfund Area 1. The investigations were conducted as mandated by the Regional Water Quality Control Board, Los Angeles (Regional Board) pursuant to California Water Code Section 13267 Order No. R4-2013-0063 (the Order), issued to Lockheed Martin on 18 April 2013, in accordance with a Regional Board-approved work plan, and as modified by subsequent Regional Board and Lockheed Martin correspondence. The work plan outlined the investigation of former features at 19 areas of concern (AOCs) at former Plants B-1, B-6, and C-1. All 19 of the AOCs were to be investigated for hexavalent chromium in soil and 8 were to be investigated for volatile organic compounds (VOCs) in soil, with the objective of identifying potential sources that could contribute to groundwater.

A total of 30 soil borings were drilled and sampled in the AOCs from 02 September 2014 to 06 November 2014. Soil samples were collected every 5 feet, and one sample from each 10-foot interval was analyzed for total chromium by United States Environmental Protection Agency (USEPA) Method SW3050B/6020A and hexavalent chromium by USEPA Method SW3060A/7199.

Boreholes in AOCs 2, 4 through 9, and 11 were investigated for VOCs in addition to hexavalent chromium. The work plan protocol included collection of soil samples for VOC testing and installation of soil-gas probes based on field screening results. However, no soil samples exhibited photo-ionization detector (PID) headspace readings greater than the field screening criteria of 50 parts per million (ppm), so no soil samples were analyzed for VOCs and no soil-gas probes were installed.

Total chromium was detected in all of the samples tested. Hexavalent chromium was detected in only 10 of the 30 borings that were completed at the site (in AOCs 2, 7, 8, 9, 11, and 13). A summary of the results of the hexavalent chromium testing is presented in the table below.

Plant	AOC #	Bore Hole #	Depth of Borehole (feet bgs)	Number of Samples Tested	Number of Hexavalent Chromium Detections	Range of Hexavalent Chromium Concentrations (mg/kg)
B-1	1	1	150	15	0	ND<0.10
	2	1	150	18	3	0.217 to 0.918
	3	1	150	17	0	ND<0.10
	4	1	150	14	0	ND<0.10
	5	1	150	16	0	ND<0.10
	6	1	150	14	0	ND<0.10
	7	1	150	16	0	ND<0.10
		2	150	14	14	0.627 to 10.5
	8/9	1	60	7	3	0.61 to 32
		2	60	7	5	1.39 to 9.06
		3	60	7	5	0.533 to 11.4
		4	60	6	3	0.338 to 3.88
B-6	11	1R	100	10	5	0.426 to 1.83
		2	100	10	2	0.646 to 0.871
	12	1	100	10	0	ND<0.10
	13	1	100	12	2	0.530 to 0.645
		2	100	11	1	0.396
	14	1	100	11	0	ND<0.10
	15	1	100	10	0	ND<0.10
	16	1	100	10	0	ND<0.10
		2	100	10	0	ND<0.10
	17	1	100	11	0	ND<0.10
		2	100	10	0	ND<0.10
	18	1	100	11	0	ND<0.10
		2	100	10	0	ND<0.10
		3	100	12	0	ND<0.10
	19	1	100	10	0	ND<0.10
		2	100	11	0	ND<0.10
C-1	20	1	100	10	0	ND<0.10
		2	100	10	0	ND<0.10

Notes: AOC = area of concern bgs = below ground surface mg/kg = milligrams per kilogram
ND = not detected above the limit indicated

Leachability and attenuation capacity of hexavalent chromium (i.e., the natural transformation of hexavalent chromium to trivalent chromium, and the subsequent precipitation of trivalent chromium as a low solubility hydroxide) were evaluated at various locations across the AOCs. Selected samples from various boreholes and depths across the site with and without detections of hexavalent chromium were analyzed for geochemical parameters, geotechnical properties, available hexavalent chromium attenuation capacity (AHCAC), and leachability using a modified Synthetic Precipitation Leaching Procedure (SPLP). The results were used to evaluate the potential future mobility of

residual hexavalent chromium mass detected in the vadose zone, and thus the potential risk of impacts to groundwater.

Key findings from this additional site investigation are summarized below and on Figure ES-1.

- VOCs were not detected in soil vapor above the field screening criteria in any of the AOCs.
- The AHCAC analyses revealed that site soils have the capacity to reduce hexavalent chromium to much less toxic trivalent chromium, resulting in its natural attenuation in the vadose zone. Where reduction of hexavalent chromium to trivalent chromium has occurred, there is no evidence to suggest that the trivalent chromium will be remobilized in the future.

Findings from AOCs 1, 3, 4, 5, 6, 12, 14, 15, 16, 17, 18, 19, and 20

- Hexavalent chromium was not detected in any samples from these 13 AOCs. The features specified in the Order formerly located within these 13 AOCs have been adequately delineated and do not represent a significant current or future source of hexavalent chromium in soil or to groundwater.

Findings from AOCs 2, 11, 13

- Hexavalent chromium was detected in 13 samples from borings located at AOC-2 (former Plant B-1 dry wells), AOC-11 (former Plant B-6 Building 371 chromium passivation area) and AOC-13 (former Plant B-6 Building 357 seepage pits). The calculated AHCAC values for the site indicate that the small mass of hexavalent chromium present in the vadose zone beneath these AOCs is unlikely to migrate to the water table under current conditions. Therefore, no further delineation is recommended for these AOCs and the detected hexavalent chromium does not represent a significant current or future source of hexavalent chromium in soil or to groundwater.

Findings from AOC 7

- Hexavalent chromium was detected in one of the borings in AOC 7 (AOC7-2) from a depth of 10 feet below ground surface (bgs) to drilling refusal at 135 feet. Boring AOC7-2 is associated with a former degreaser located in Building 175 at the former Lockheed Martin Plant B-1. Full delineation of hexavalent chromium in the vicinity of AOC7-2 is not complete and additional investigation may be warranted.
- The analytical results suggest that the hexavalent chromium mass in the vadose zone at AOC7-2 exceeded the AHCAC of the soil to a depth of at least 135 feet, allowing the migration of hexavalent chromium to this depth. Groundwater is presently estimated to be greater than 170 feet bgs.
- The closure of the former manufacturing activities at Building 175 in 1991 eliminated former processes associated with the manufacturing that may have driven infiltration. Although the rate of water migration downward through the vadose zone has not been evaluated at the site, the change in use of the property resulted in less permeable area open to precipitation (the former Building location is presently paved) and concurrent changes in water-use

practices are expected to have reduced the potential for continued migration of the hexavalent chromium toward the water table.

- AOC 7 is upgradient of the BOU groundwater extraction and treatment system and based on capture zone analysis performed as part of the BOU semiannual groundwater monitoring program (Tetra Tech, 2014b), the AOC falls with the capture zone of the extraction system. Based on the capture zone analysis any impacted groundwater associated with this feature is presently captured.

AOCs 8 and 9

- AOCs 8 and 9 include the former buried waste area in the southeast corner of the former Plant B-1. During the demolition of buildings in the vicinity buried waste was discovered and excavated to depths as great as 23 feet bgs.
- Hexavalent chromium was detected in AOCs 8 and 9 during this investigation from 5 feet bgs to total depth at 60 feet bgs. The delineation of hexavalent chromium detected at AOCs 8 and 9 is not complete, and additional investigation may be warranted.
- The analytical results indicate that the hexavalent chromium mass presently in the vadose zone at one or more borings in AOCs 8 and 9 likely exceeds the AHCAC of the natural soil, potentially allowing the migration of hexavalent chromium if infiltration occurs. The former buried waste area is presently paved with asphalt-concrete, however, and the potential for remobilization of hexavalent chromium at depth in the vadose zone is reduced from the prior usage of this area.
- AOCs 8 and 9 are adjacent to the BOU groundwater extraction and treatment system and based on capture zone analysis performed as part of the BOU semiannual groundwater monitoring program (Tetra Tech, 2014b), the AOC falls with the capture zone of the extraction system. Based on the capture zone analysis any potentially impacted groundwater that is associated with this feature is presently captured.

Lockheed Martin will discuss the need for additional soil and/or groundwater delineation efforts following the Regional Board assessment of the data and findings presented in this report. Future site characterization activities will then be described in work planning documents prepared for Regional Board review.

P:\GIS\BOU_Soil_Inv_Rpt\AOCs_Threat_GW.mxd

AOC 12
AOC 13
AOC 17
AOC 19
AOC 18
AOC 14
AOC 11
AOC 15
AOC 16
AOC 20
AOC 6
AOC 1
AOC 7
AOC 5
AOC 3
AOC 2
AOC 8 and 9
AOC 4

N

0 1,000 2,000
Feet

Railroad

Burbank Operable Unit Boundary

Areas of concern in which hexavalent chromium was not detected in soil and there are no apparent hexavalent chromium threats to groundwater

Areas of concern in which low levels of hexavalent chromium were detected in soil but there are no apparent hexavalent chromium threats to groundwater due to the attenuation capacity of the soil

Areas of concern in which hexavalent chromium was detected in soil and there are potential hexavalent chromium threats to groundwater

BURBANK OPERABLE UNIT

ES-1

Potential Hexavalent Chromium Threats to Groundwater

TETRA TECH

Section 1
INTRODUCTION

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech has prepared this report summarizing the additional investigation of selected features at the former Lockheed Martin Burbank facilities (the site). The site (Figure 1) is located within the Burbank Operable Unit (BOU) of the San Fernando Valley Superfund Area 1, and includes specific areas of concern (AOCs) identified by the Regional Water Quality Control Board, Los Angeles (Regional Board) within former Plants A-1 North, B-1, B-6, and C-1.

1.1 REGIONAL WATER QUALITY CONTROL BOARD ORDER

The investigation activities at the site were performed pursuant to California Water Code Section 13267 Order No. R4-2013-0063 (the Order), issued to Lockheed Martin on 18 April 2013 by the Regional Board. The Order required Lockheed Martin to submit an Investigation Work Plan to delineate the extent of certain waste constituents, specifically volatile organic compounds (VOCs) and hexavalent chromium, in the subsurface soil and groundwater that may have originated from the former Lockheed Martin facilities specified in the Order. The Order identified between one and five specific features located at 20 AOCs. All of the AOCs were to be investigated for hexavalent chromium and eight of the AOCs were to be investigated for VOCs.

Lockheed Martin met with the Regional Board on 02 May 2013 to discuss the scope of the Order, and again on 25 June 2013 to review data compiled for each AOC and to discuss investigation approaches. In compliance with an approved extension request, Lockheed Martin submitted a draft work plan to the Regional Board on 13 August 2013. Lockheed Martin subsequently met with the Regional Board on 19 September 2013, at which time the Regional Board provided draft comments to the draft work plan; the draft comments included abeyance of the requirement to investigate AOC 10 (located at the former Plant A-1 North). The Regional Board provided final comments on 29 October 2013 and required Lockheed Martin to submit a revised investigation approach by 15 January 2014. Lockheed Martin met with the Regional Board again on 06 December 2013 to discuss the revised investigation approach presented in the updated version of the document.

1.2 REVISED WORK PLAN

Lockheed Martin submitted the *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) on 15 January 2014. The work plan was conditionally approved by the Regional Board in a letter dated 25 March 2014. Conditions of the approval included the following:

- Install one soil boring at AOC 2 (Plant B-1 Dry Wells DW-2 and DW-2A) instead of two. The boring should be installed between the two former dry wells. The boring should be converted to a groundwater monitoring well.
- Install soil-vapor probes at AOC 5 (Plant B-1 Seepage Pit DW-4) at depth intervals determined by field conditions, rather than predetermined depths of 10, 20, and 30 feet.
- Convert one of the soil borings in AOC 7 (Plant B-1 Building 175 Vapor Degreaser and Clarifier) to a groundwater monitoring well.
- Sample groundwater monitoring wells installed at AOC 2 and AOC 7 consistent with the requirements established in the BOU groundwater monitoring program.
- Notify the Regional Board at least seven days prior to starting field activities.
- Perform the site investigation and submit a Site Investigation Report to the Regional Board by 25 September 2014.

Lockheed Martin subsequently submitted a letter on 24 June 2014 requesting modification of several work plan requirements including the following:

- Additional time (90 days) to perform the investigation and submit the Site Investigation Report.
- Abeyance of the requirement to install groundwater monitoring wells at AOC 2 and AOC 7 until after soil data have been evaluated.
- Removal of the requirement to present groundwater plume maps for 1,4-dioxane and n-nitrosodimethylamine at the site.
- Inclusion of a vertical profile for each AOC rather than cross sections.

The Regional Board approved all requested modifications except the last one in a letter dated 03 July 2014. Per the Regional Board, the Site Investigation Report will include one cross section per AOC. Additionally, the Regional Board extended the due date for the report to 29 December 2014.

1.3 OBJECTIVES AND TECHNICAL APPROACH

The objectives of this investigation are to delineate the extent of certain waste constituents originating from the AOCs identified in the Order and determine if the waste constituents pose a threat to groundwater. The technical approach used to achieve these objectives includes the following:

- Drill 30 soil borings to depths of 60 to 150 feet below ground surface (bgs) as specified in the Order.
- Collect soil samples for analysis of total chromium and hexavalent chromium
- Collect soil samples for analysis of VOCs if the VOC field screening criteria established in the work plan are exceeded.
- Install soil-gas probes in borings where VOCs exceed field screening criteria established in the work plan.
- Collect soil-gas samples for analysis of VOCs if soil-gas probes are installed.
- Perform hexavalent chromium and VOC attenuation assessments to determine the likelihood of existing hexavalent chromium or VOCs reaching the water table.

The additional data obtained during this investigation, together with the existing information and data, will be used to evaluate potential groundwater well locations and characterize the potential for groundwater impacts originating from the features identified in the Order and work plan.

1.4 REPORT ORGANIZATION

This report is organized into the following sections:

- Section 1 – Introduction: This section presents the purpose and objectives of the site soil and soil-gas investigation activities and provides a brief description of the report organization.
- Section 2 – Background: This section provides the site history for the various former Lockheed Martin plants, the physical setting for the site, and a generalized description of site geology and hydrogeology, regional geology and hydrogeology, and groundwater quality.
- Section 3 – Methodology: This section provides a description of the field investigation, including pre-drilling activities, soil sampling and analysis, deviations from the work plan, equipment decontamination, surveying, and waste management.
- Section 4 – Analytical Results: This section provides a summary of soil analytical results and data quality assessment.

- Section 5 – Hexavalent Chromium Evaluation: This section provides an interpretation of analytical results, including hexavalent chromium attenuation evaluations.

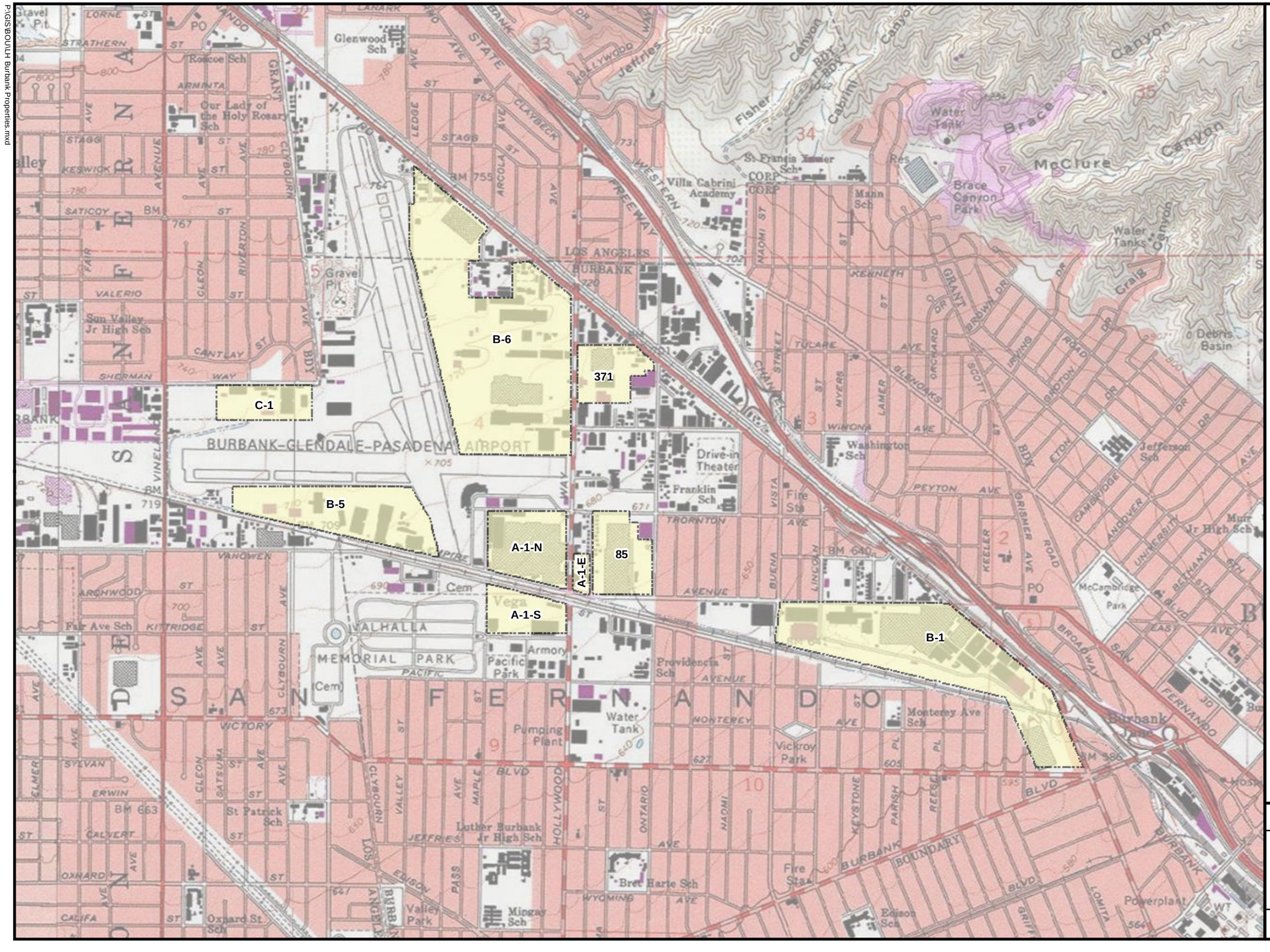
- Section 6 – Conceptual Site Models: This section provides a summary of the conceptual site model (CSM) for each AOC. The CSM includes a brief description of the AOC, the local geologic and hydrogeologic conditions, the results from this investigation, an evaluation of the adequacy of delineation, and an assessment of the potential for the use of the feature to have resulted in impacts to groundwater.

- Section 7 – Conclusions and Recommendations: This section provides conclusions based on the investigation results and the data evaluation and recommendations for potential additional investigation activities.

- Section 8 – References: This section provides a list of documents referenced in this report.

SECTION 1 FIGURES

P:\GIS\BOU\LH Burbank Properties.mxd



BURBANK OPERABLE UNIT

Figure 1

Site Location Map

TETRA TECH

Section 2
BACKGROUND

This section provides the history, physical setting, geology, and hydrogeology for the selected features within the former Lockheed Martin Burbank facilities (the site) requiring additional investigation. The geologic and hydrogeologic conditions at the site are based on the current investigation and previous investigations at the site.

2.1 SITE HISTORY

A brief history of the former Lockheed Martin Corporation (Lockheed Martin) plants that comprise the site is provided below.

2.1.1 Plant B-1

Former Plant B-1 occupied approximately 100 acres located southeast of the Bob Hope Airport (Figure 1). Former Plant B-1 was in use by Lockheed Martin between 1928 and 1991 with operations specific to completed parts fabrication and subassembly, including tooling, parts shaping and machining, plating, deburring, cleaning, and painting. The chemicals and materials used, stored, or generated at the former Plant B-1 included gasoline and diesel fuels, oils, solvents, paints, acids, caustic solutions, chromic acid, boiler blowdown, and metal shavings.

Over 100 environmental investigations and assessments have been conducted at former Plant B-1. These investigations included environmental site assessments, UST leak detection programs, and soil, soil-vapor, and groundwater investigations. The overall purpose of these investigations was to characterize and delineate the extent of targeted chemicals at all of the various features of environmental concern. These chemicals primarily included VOCs and metals (including chromium and hexavalent chromium). These investigations and assessments resulted in over 500 soil borings or sample locations, with over 4,000 samples collected and analyzed for VOCs and metals.

Various remedial activities have taken place at former Plant B-1 based on the aforementioned investigations and assessments. These include the AquaDetox system (a combined SVE and groundwater pump-and-treat system) installed and operated at Buildings 175/180 from 1988 to

1994, UST removals and closures, demolition and removal of other subsurface features of concern, soil excavations within the former buried debris area, and the currently active SVE system located in the central area of the former B-1 Plant which has been operational since July 1997. From these remedial actions, the Regional Board has issued six "No Further Requirements" letters including one that noted no further requirements for the site except for the active SVE system.

2.1.2 Plant B-6

Former Plant B-6 occupied approximately 132 acres located in the northeast quadrant of the Bob Hope Airport, south of San Fernando Road and west of Hollywood Way (Figure 1). Over 80 buildings were constructed on the site during Lockheed Martin's occupation from 1941 to 1997. The property was acquired by the Burbank-Glendale-Pasadena Airport Authority (Airport Authority) in 1997 under eminent domain. Operations at the former Plant B-6 included aircraft parking, final assembly and flight support, classified aircraft research and development, minor subassembly work, aircraft functional testing, and ground support. Supporting activities included cleaning and painting, minor tooling, welding, and parts and components machining. Chemicals and materials used and/or stored at the site to support these operations included aircraft fuels, biocides, descalers, fuel oils and gasoline, paints, solvents, acids, caustics, and plastic resins and hardeners. Fuels used at the site included automobile gasoline, aviation gasoline, Jet A, JP-4, JP-5, JP-7, JP-8, and other thermally stable jet fuels. Types of oils used included conventional motor oils, turbine lubricating oils, hydraulic system oils, and rust preventative oils.

Over 25 environmental investigations and assessments have been conducted at the former Plant B-6 that identified various features of environmental concern. These investigations and assessments resulted in 295 borings and sample locations were identified, and 891 samples were collected and analyzed for metals (including total chromium and hexavalent chromium).

Based on the data gathered from the aforementioned investigations and assessments, various remedial activities took place at former Plant B-6 prior to the Airport Authority's acquisition of the property. These remedial activities included UST removals and closures, and demolition and removal of other subsurface features of concern. From these remedial actions, the Regional Board has issued 11 "No Further Requirements" letters for former Plant B-6.

2.1.3 Plant C-1

Former Plant C-1 occupied approximately 20 acres located in the northwest quadrant of the Bob Hope Airport, south of Sherman Way (Figure 1). Operations at the facility were conducted from the early 1940s through 1990. The property was sold to the Airport Authority in 1997. Operations at the former Plant C-1 included classified aircraft research, milling and machining of metal parts, and aircraft maintenance and modification. Chemicals and materials used, stored, or generated at the site to support site operations included diesel fuel, biocides, motor oil, hydraulic oil, waste oil, metal chips, cooling and cutting oil, biocides, descalers, lubricants, and solvents.

Over 30 environmental investigations and assessments have been conducted at the former Plant C-1 to identify various features of environmental concern. From these investigations and assessments, 93 borings and sample locations were identified, and 260 samples collected and analyzed for metals (including total chromium and hexavalent chromium).

Various remedial activities have taken place at former Plant C-1 based on the data gathered from the aforementioned investigations and assessments. These remedial activities included UST removals and closures, and demolition and removal of other subsurface features of concern. From these remedial actions, the Regional Board issued two "No Further Requirements" letters for former Plant C-1.

2.2 PHYSICAL SETTING

The site is located in the southeastern portion of the San Fernando Valley (SFV) in the Burbank Operable Unit (BOU) Superfund Area 1, within the City of Burbank, California (Figure 2). The SFV is a 260-square-mile basin bounded to the south by the Santa Monica Mountains, to the west by the Simi Hills, to the north by the Santa Susana and San Gabriel Mountains, and to the east-northeast by the Verdugo and San Gabriel Mountains.

2.3 REGIONAL GEOLOGY AND HYDROGEOLOGY

2.3.1 Regional Geology

The geology of the SFV increases in complexity with depth (a result of the tectonic forces native to the region). The stratigraphy of the SFV area, from youngest to oldest, consists of: alluvial deposits (younger Holocene transitioning into older Pleistocene) overlying unconsolidated

Pliocene-Pleistocene bedrock of marine and non-marine origin, overlying Tertiary marine sandstone, mudstone, and shale bedrock, overlying Mesozoic- and older-age crystalline and metamorphic basement complex rocks. The simplified stratigraphic column for the SFV (in the vicinity of the site) is presented below.

Alluvium	Younger / Older
Unconsolidated bedrock of marine and non-marine origin	Non-marine / Marine
Marine sandstone, mudstone, and shale bedrock	Sandstone / Mudstone/shale
Basement complex bedrock	Igneous and metamorphic rocks

The bedrock units crop out in the surrounding hills and mountains that form the valley boundaries. The eastern margin of the valley is bounded by the plutonic and metamorphic rocks of the Verdugo Mountains. The northern margin of the valley is bounded by the sedimentary rocks of the Santa Susana Mountains and the plutonic and metamorphic rocks of the San Gabriel Mountains. The western edge of the valley is defined by the Simi Hills where sedimentary rock is exposed. The southern margin is defined by the Santa Monica Mountains where sedimentary and igneous rocks are exposed.

The Quaternary alluvium beneath the site consists of Holocene younger alluvium and Pleistocene older alluvium. The younger alluvium extends from the ground surface to approximately 410 feet bgs or more, and the older alluvium extends from the base of the younger alluvium to 1,200 feet bgs or more. The contact between the younger and older alluvium has been reported to be marked by a distinct basal cobble layer (HSI Geotrans, 1997).

The younger alluvium consists of coarse-grained sand, gravel, and cobbles interbedded with finer-grained units of sand, silty sand, sandy silt, silt, and clay. The units generally vary in elevation and thickness; the contacts between the units have a northeast-trending strike and dip towards the southeast. The composition of the upper portion of the older alluvium varies from sand, gravel, and boulders near former Plant C-1 to interbedded silt and sand in the vicinity of former Plants B-1 and

B-6. The deeper portion of the older alluvium consists of silt and sand with interbedded gravel (HSI Geotrans, 1997).

The northwest-trending Verdugo fault zone is located east of the site. The fault zone has been interpreted as a low-permeability zone that can both impede and direct the flow of groundwater.

2.3.2 Regional Hydrogeology

The site is located in the San Fernando Valley Groundwater Basin, which is comprised of water-bearing alluvium that overlies a non-water-bearing bedrock complex of older sedimentary rock formations and crystalline and metamorphic basement complex rock. Groundwater enters the basin by infiltration of surface-water runoff from the highlands, by deep penetration of rain on the valley floor, and by artificial means such as irrigation return or induced recharge. Outflow of groundwater from the basin is through groundwater extraction and a small amount of flow (surface and groundwater) through the Los Angeles Narrows (southeast of the BOU). Groundwater in the eastern portion of the basin flows mainly through two sedimentary units: the Pleistocene older alluvium and the Holocene younger alluvium. The aquifer in the older alluvium has been observed to be locally semi-confined to confined by clay and silt units, whereas the aquifer in the younger alluvium is generally unconfined to semi-confined depending upon the location and thickness of the fine-grained units (HSI Geotrans, 1997).

The aquifer in the younger alluvium at the site has been divided into five hydrostratigraphic units (HSUs) based on electrical resistivity responses in geophysical logs (Hargis + Associates, 1991; Simon Hydro Search, 1993). The five HSUs of the younger alluvium are identified from upper to lower as A′, X, A, Y, and B. The A′, A, and B HSUs are generally composed of coarser-grained material (coarse-grained sand, gravel, and cobbles). The X and Y HSUs separate the coarser-grained HSUs and consist of relatively finer-grained material (sand, silty sand, and silt). Based on the stratigraphic position of the units, the groundwater gradient, and overall groundwater levels, the A′ HSU, the X HSU, or the A HSU may locally represent water table (WT) conditions depending on geographic location within the project area. These HSUs are collectively referred to as WT HSUs.

2.4 SITE GEOLOGY AND HYDROGEOLOGY

2.4.1 Site Geology

The site soils that were encountered in the current investigation above the water table consist of compacted fill (generally 0 to10 feet bgs), but may be deeper and may not be present at all areas of concern (AOCs) underlain by younger alluvium. The younger alluvium is generally coarse-grained (sand, sand with gravel, and sandy gravel), with local finer-grained interbeds (silty sand, sandy silt, and sandy clay). The specific locations of fine-grained interbeds generally vary from one AOC to another.

2.4.2 Site Hydrogeology

Shallow groundwater currently flows to the site from the west, north, and east. The local groundwater flow direction at the site is predominantly southeasterly, converging in a flow direction toward the depression in the WT created by the operation of the extraction wells along Vanowen Street and in the southern portion of former Plant B-1. Groundwater-elevation data indicate that the dominant direction of groundwater flow immediately south of former Plant B-1 is generally reversed from its natural southeasterly flow direction, as it follows a northerly flow direction into the depression in the WT created by the operation of the BOU extraction wells.

Based on groundwater data from April 2014, approximate groundwater depths for the site vary by location, as listed below (Tetra Tech, 2014b).

- Plant B-1: Groundwater is approximately 135 to 175 feet bgs.
- Plant B-6: Groundwater is approximately 220 to 250 feet bgs.
- Plant C-1: Groundwater is approximately 235 to 240 feet bgs.

The April 2014 groundwater elevation contours for shallow groundwater monitoring wells from the most recent groundwater monitoring report (Tetra Tech, 2014b) are presented on Figure 3. The 20 AOCs for this investigation are shown on these maps for reference.

2.5 GROUNDWATER QUALITY

Lockheed Martin has monitored groundwater quality at the BOU (within which the site is located) since 1986. In order to address VOCs in groundwater, a groundwater extraction system and treatment plant were constructed in 1994 and began operation in 1996. Current system operations

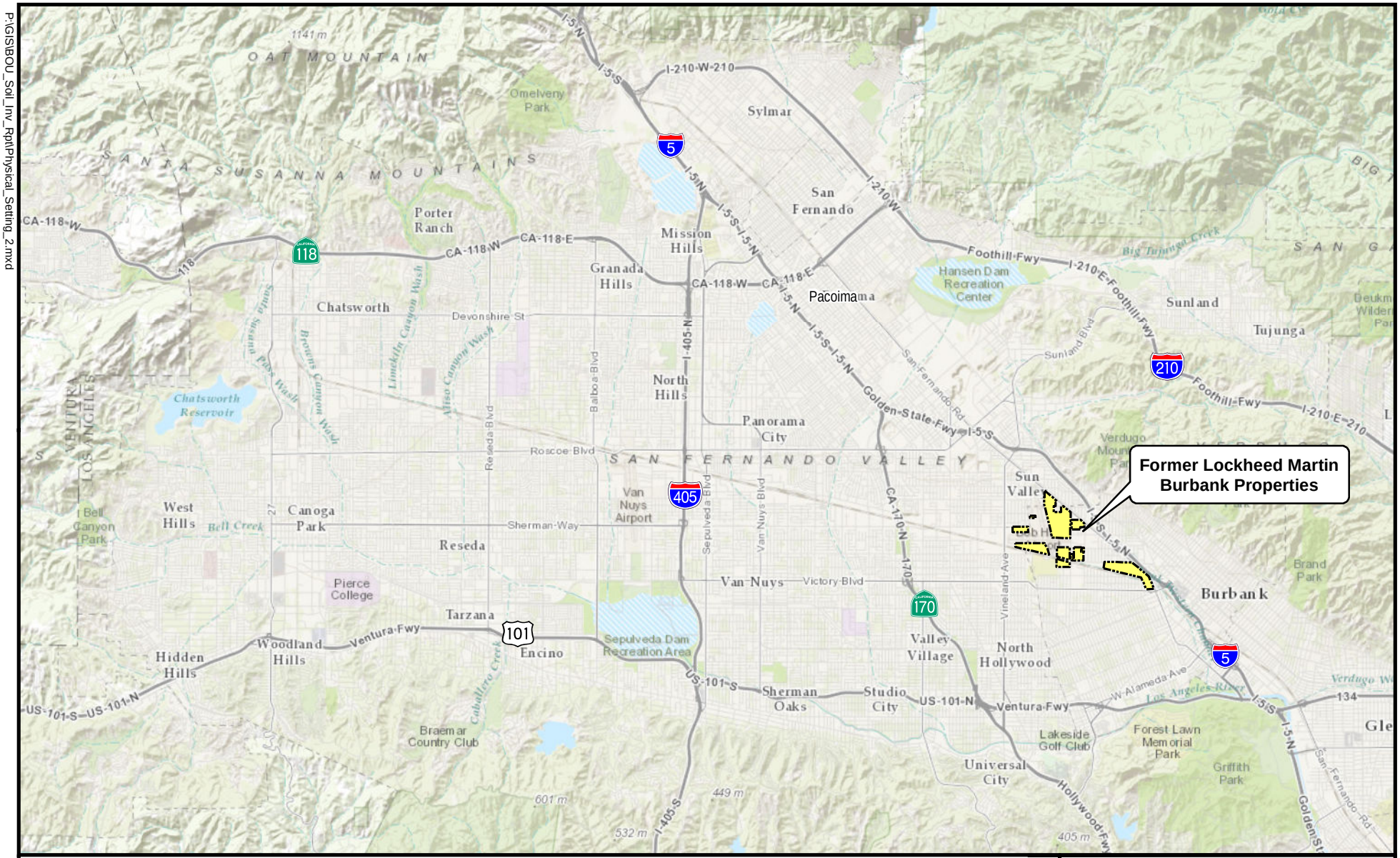
include pumping groundwater from as many as eight extraction wells, and sequential treatment by air stripping and aqueous-phase granular activated carbon. Off-gassed VOCs from the air stripper are treated with vapor-phase activated carbon.

The distribution of VOCs has been well defined in the BOU monitoring area. The primary VOCs of concern that were identified in the BOU are tetrachloroethene (PCE) and trichloroethene (TCE). The concentrations of TCE, PCE, total chromium, and hexavalent chromium in shallow groundwater have generally decreased or remained stable since data were first collected (Arcadis, 2012). Additionally, analytical results from well clusters have shown that TCE, PCE, total chromium, and hexavalent chromium concentrations in wells screened in the lower HSUs are generally much lower than in the shallow wells.

The April 2014 isoconcentration maps for PCE, TCE, total chromium, and hexavalent chromium in shallow groundwater monitoring wells from the most recent groundwater monitoring report are presented on Figures 4, 5, 6, and 7, respectively (Tetra Tech, 2014b). The 20 AOCs for this investigation are shown on these maps for reference.

SECTION 2 FIGURES

P:\GIS\BOU_Soil_Inv_Rpt\Physical_Setting_2.mxd



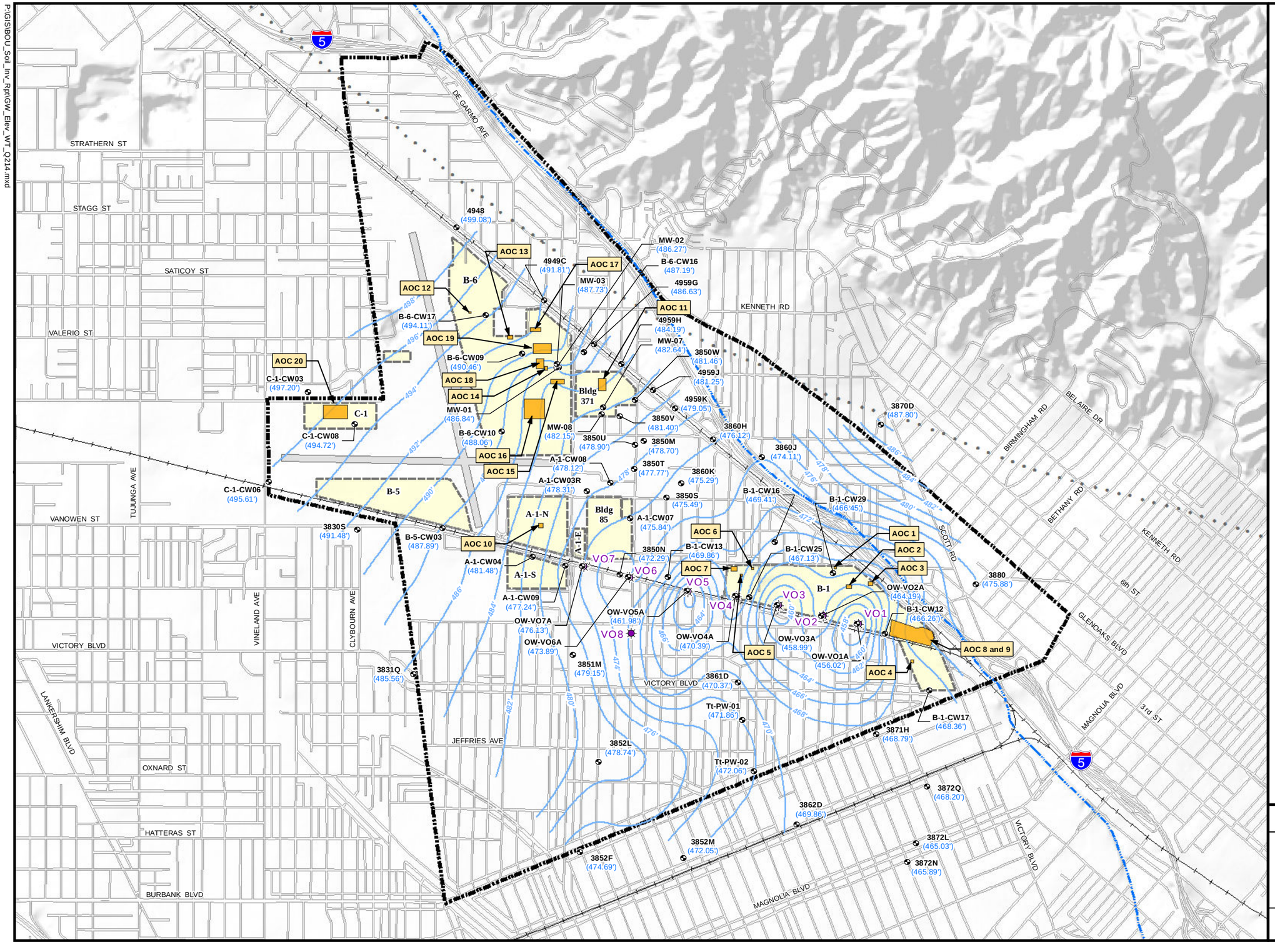
BURBANK OPERABLE UNIT

Figure 2

Physical Setting Map

TETRA TECH

P:\GIS\BOU_Soil_Inv_Rpt\GW_Elev_WT_Q214.mxd



Notes:
* Bedrossian, T.L. and Roffers, P.D., 2012 *"Geologic Compilation of Quaternary Surficial Deposits in Southern California, Los Angeles 30' x 60' Quadrangle (Revised)"*. California Geological Survey Special Report 217, Plate 9. July.

Well Survey: KDM Meridian, Inc. 2012.
Projection: NAD83 NSRS2007 State Plane Califonia V, FIPS0405 FT US

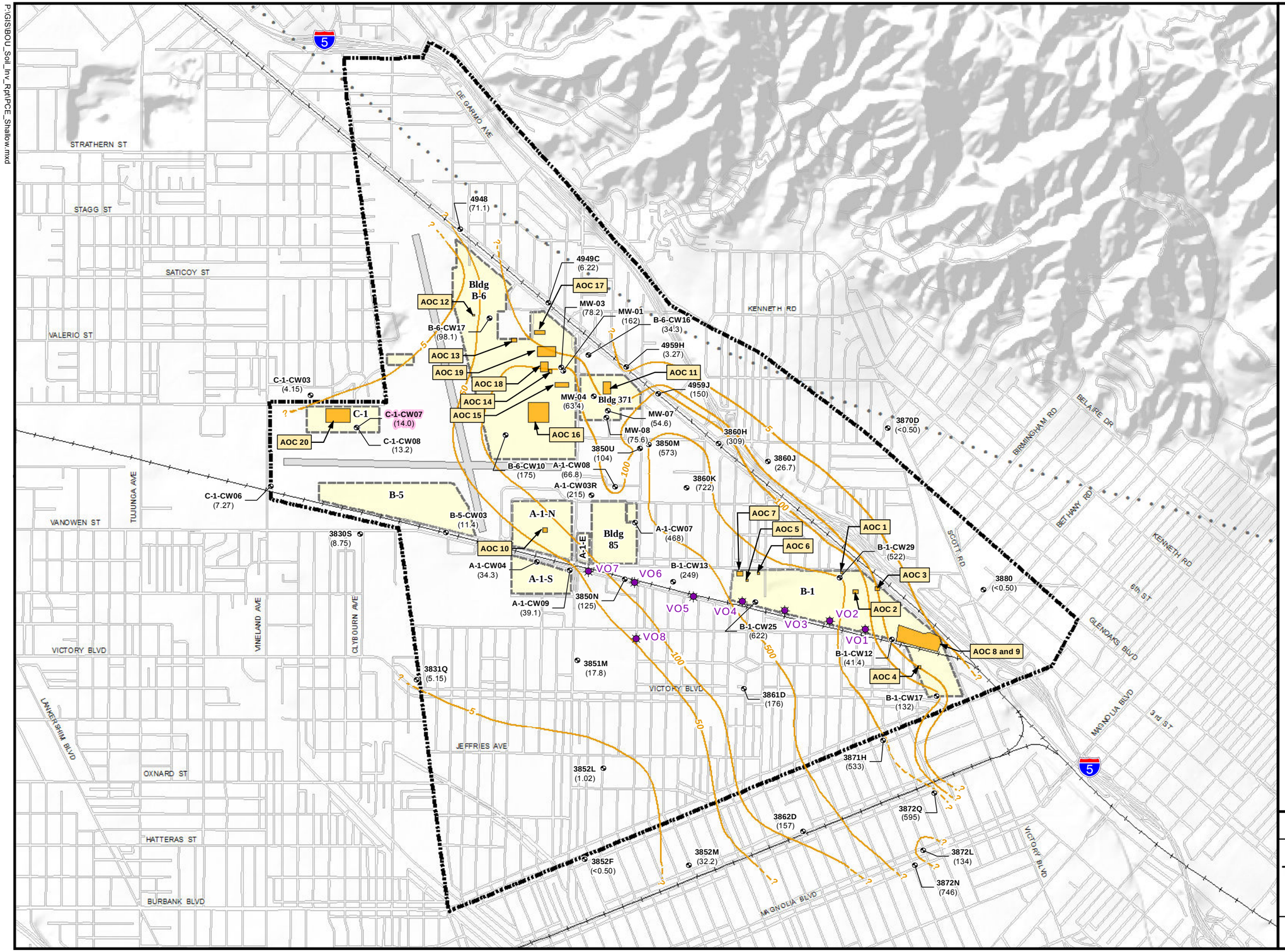
AOC - Area of Concern

BURBANK OPERABLE UNIT

Figure 3
Potentiometric Surface Map in Water Table HSU
April 2014

TETRA TECH

P:\GIS\BOU_Soil_Inv_Rpt\PCE_Shallow.mxd



Notes:
Water Quality Objective - 5.0 µg/L

µg/L - Micrograms per liter

AOC - Area of Concern

* Bedrossian, T.L. and Roffers, P.D., 2012 *"Geologic Compilation of Quaternary Surficial Deposits in Southern California, Los Angeles 30' x 60' Quadrangle (Revised)"*. California Geological Survey Special Report 217, Plate 9. July.

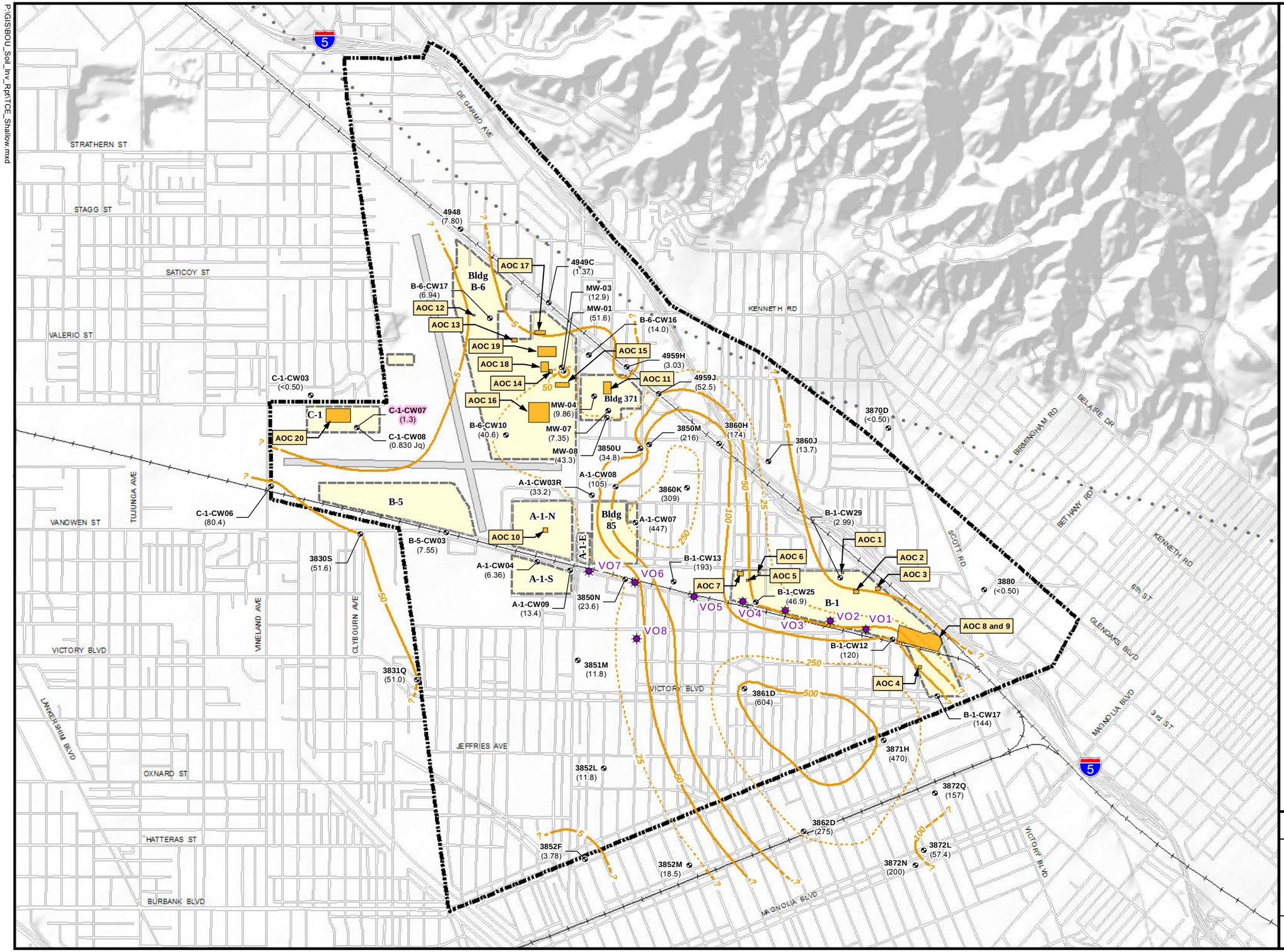
Well Survey: KDM Meridian, Inc. 2012.
Projection: NAD83 NSRS2007 State Plane California V, FIPS0405 FT US

BURBANK OPERABLE UNIT

Figure 4
Tetrachloroethene Concentrations in WT-HSU Wells April 2014

TETRA TECH

P:\GIS\BOU_Soil_Inv_Rpt\TCE_Shallow.mxd



0 1,000 2,000 Feet

- Monitoring Well (test results posted below the well ID, unit of measure is µg/L)
- C-1-CW07 Result from 2013 event
- Extraction Well
- Trichloroethene Isoconcentration (concentrations range from 604.00 µg/L to <0.50 µg/L — dashed where inferred)
- Intermediate Isoconcentration Contour
- Approximate Concealed Trace of the Verdugo Fault*
- Railroad
- Burbank Operable Unit Boundary
- AOC Locations
- Former Lockheed Martin Burbank Properties

Notes:
Water Quality Objective - 5.0 µg/L

AOC - Area of Concern

* Bedrossian, T.L. and Roffers, P.D., 2012 *"Geologic Compilation of Quaternary Surficial Deposits in Southern California, Los Angeles 30' x 60' Quadrangle (Revised)"*. California Geological Survey Special Report 217, Plate 9. July.

Well Survey: KDM Meridian, Inc. 2012.
Projection: NAD83 NSRS2007 State Plane California V, FIPS0405 FT US

J - The analyte was positively identified, but the analyte concentration is an estimated value.

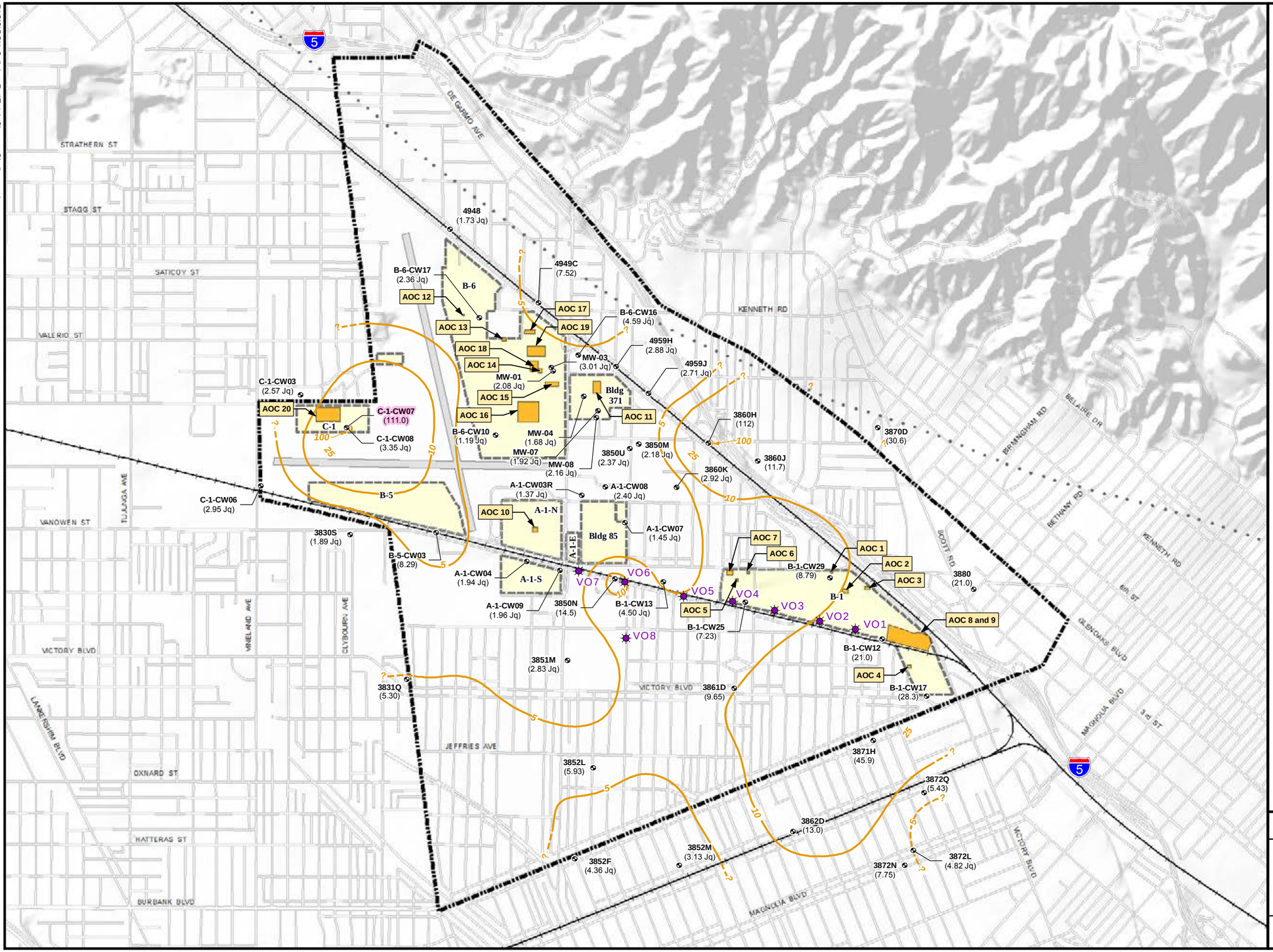
q - The analyte detection was below the Practical Quantitation Limit (PQL).

BURBANK OPERABLE UNIT

Figure 5
Trichloroethene Concentrations in WT-HSU Wells
April 2014

TETRA TECH

P:\GIS\BOU_Soil_Inv_Rpt\Total_Chrome_Shallow.mxd



Notes:
Water Quality Objective - 50.0 µg/L

µg/L - Micrograms per liter

AOC - Area of Concern

* Bedrossian, T.L. and Roffers, P.D., 2012 *"Geologic Compilation of Quaternary Surficial Deposits in Southern California, Los Angeles 30' x 60' Quadrangle (Revised)"*, California Geological Survey Special Report 217, Plate 9. July.

Well Survey: KDM Meridian, Inc. 2012.
Projection: NAD83 NSRS2007 State Plane California V, FIPS0405 FT US

J - The analyte was positively identified, but the analyte concentration is an estimated value.

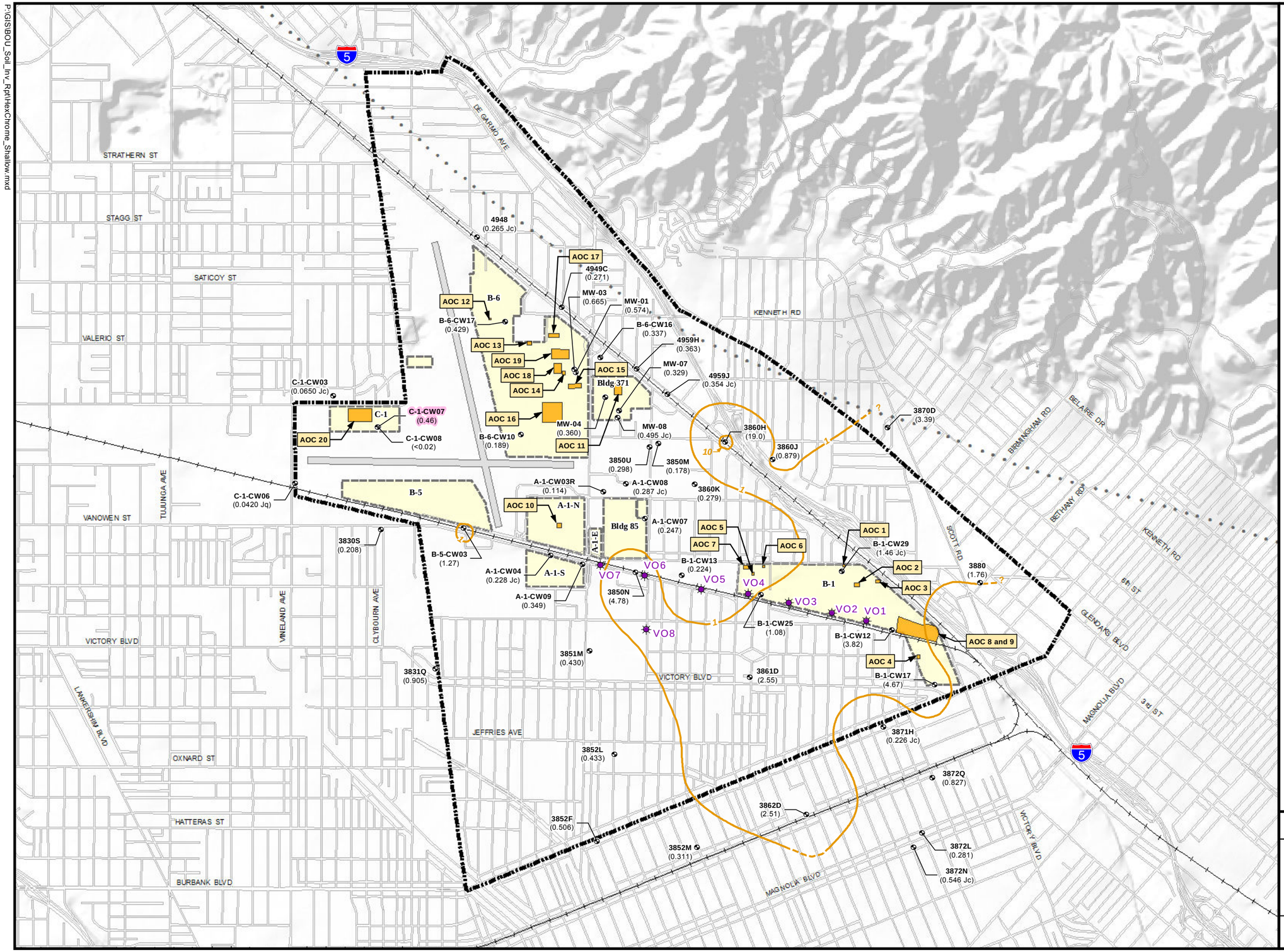
q - The analyte detection was below the Practical Quantitation Limit (PQL).

BURBANK OPERABLE UNIT

Figure 6
Total Chromium Concentrations in WT-HSU Wells April 2014

TETRA TECH

P:\GIS\BOU_Soil_Inv_Rpt\HexChrome_Shallow.mxd



- Monitoring Well (test results posted below the well ID, unit of measure is µg/L)
- C-1-CW07 Result from 2013 event
- Extraction Well
- Hexavalent Chromium Isoconcentration (concentrations range from 19.00 µg/L to <0.02 µg/L — dashed where inferred)
- Approximate Concealed Trace of the Verdugo Fault*
- Railroad
- Burbank Operable Unit Boundary
- AOC Locations
- Former Lockheed Martin Burbank Properties

Notes:
Water Quality Objective - 10.0 µg/L

µg/L - Micrograms per liter

AOC - Area of Concern

* Bedrossian, T.L. and Roffers, P.D., 2012 *"Geologic Compilation of Quaternary Surficial Deposits in Southern California, Los Angeles 30' x 60' Quadrangle (Revised)"*. California Geological Survey Special Report 217, Plate 9. July.

Well Survey: KDM Meridian, Inc. 2012.
Projection: NAD83 NSRS2007 State Plane California V, FIPS0405 FT US

J - The analyte was positively identified, but the analyte concentration is an estimated value.

q - The analyte detection was below the Practical Quantitation Limit (PQL).

c - The Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recoveries were outside control limits.

BURBANK OPERABLE UNIT

Figure 7
Hexavalent Chromium Concentrations in WT-HSU Wells
April 2014

TETRA TECH

Section 3
METHODOLOGY

This section describes the field investigation and data collection methods. Work was performed in conformance with the *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) unless noted otherwise.

3.1 PRE-DRILLING ACTIVITIES

Pre-drilling activities for the investigation included preparing investigation support documents, obtaining permits for the field investigation, and conducting underground utility clearance.

3.1.1 Investigation Support Documents

The following documents were prepared by Tetra Tech for Lockheed Martin Corporation (Lockheed Martin) to support the investigation.

- *Revised Site-Specific Health and Safety Plan* (Tetra Tech, 2014c)
- *Draft Project Quality Management Plan, Revised* (Tetra Tech, 2014d)
- *Quality Assurance Project Plan* (QAPP) (Tetra Tech, 2014e)
- *Draft Field Activity Sequencing Plan* (Tetra Tech, 2014f)
- *Waste Management Plan* (Tetra Tech, 2014g)
- *Traffic Control Plan* (Tetra Tech, 2014h)

3.1.2 Permitting

In compliance with a request made by the Burbank-Glendale-Pasadena Airport Authority, Federal Aviation Administration (FAA) Forms 7460-1 were filed for all boring locations located within areas of concern (AOCs) on Bob Hope Airport property (AOC 12 through AOC 20). The FAA did not object to the proposed drilling activities. A copy of the FAA determination letter is provided in Appendix A.

3.1.3 Utility Clearance

All soil boring locations were cleared for underground utilities prior to drilling in accordance with Lockheed Martin's "Minimum Requirements for Intrusive Fieldwork Work Plans" (2011). Utility clearance activities included the following:

- Reviewing any available utility maps that were provided.
- Performing a utility clearance geophysical survey for the soil boring locations. The utility clearance was performed by Terra Physics using radio, electromagnetic instruments, and ground penetrating radar.
- Marking the areas of the site where intrusive field work was to be performed, and notifying Underground Services Alert for utility clearance at least 48 hours prior to the start of intrusive field work.

Several of the borings were located in the vicinity of active soil-vapor extraction (SVE) lines, and the precise location and depth of the lines could not be confirmed with certainty. Therefore, a vacuum truck was used to remove soil at these locations to depths from 8 feet below ground surface (bgs) to 14 feet bgs to confirm the absence of the SVE lines at borings AOC2-1, AOC3-1, AOC8/9-4, AOC11-1, and AOC11-2.

3.2 SOIL SAMPLING AND ANALYSES

A total of 30 soil borings were drilled and sampled from 02 September 2014 to 06 November 2014 using a hollow-stem-auger (HSA) drill rig. Drilling was performed by National, a California C-57 licensed drilling contractor. Drilling was observed by a Tetra Tech representative under the direct supervision of a California-registered Professional Geologist. The boring locations are shown on Figure 8 (former Plant B-1) and Figure 9 (former Plants B-6 and C-1).

3.2.1 Drilling and Sampling Methodology

A coring attachment affixed to the HSA rig was used to remove asphalt-concrete, if present. Each boring not cleared with a vacuum truck was hand-augered in three locations oriented in a triangular pattern to depths of 5 feet bgs to confirm the absence of shallow underground utilities. The HSA rig was then used to drill the borings to the target depth using an 8-inch-diameter auger.

Soil samples were collected every 5 feet by driving an 18-inch-long, 2-inch-diameter California-drive split-spoon sampler into undisturbed soil. Blow counts for advancing the sampler were recorded on the boring logs (Appendix B).The split-spoon sampler was loaded with three 6-inch-

long, 2-inch-diameter, clean brass sample sleeves. Upon collection of the samples from the designated sampling interval, the sampler was brought to the surface, disassembled, and placed on plastic sheets according to the correct retrieval sequence. The bottom 6-inch sample sleeve was immediately sealed at both ends with Teflon™ film and plastic end caps, labeled, stored in a sealable bag, and placed into a cooler for transportation to the analytical laboratory. The information for each sample was recorded on a chain-of-custody form identifying former Lockheed Martin Burbank facilities (the site), date, time, sampler, sample container, and requested analyses.

A portion of the soil sample collected in the second sleeve was screened in the field using an organic vapor analyzer (OVA) equipped with a photo-ionization detector (PID) calibrated with 100 parts per million (ppm) isobutylene. The soil sample was placed in a plastic bag which was then sealed and the soil was disaggregated. The sealed bag was left for several minutes to allow organic vapors to volatize before inserting the tip of the OVA into the bag to obtain a volatile organic compound (VOC) headspace reading.

The remainder of the soil sample from the second sleeve was utilized to log the soil. The borings were logged according to the Unified Soil Classification System (USCS) under the supervision of a California-registered Professional Geologist. Soil sample descriptions include observed grain size, gradation, percentage of soil fractions (i.e., clay, silt, sand, and gravel), hardness or density, and moisture content. The extent and nature of any staining and odors observed in the samples were recorded on the logs. Soil color was determined using the Munsell Soil Color Chart® and recorded on the logs. The soil sample descriptions, sampling depths, and the maximum PID readings are included on the boring logs (Appendix B).

In accordance with the *Revised Additional Site Investigation Work Plan, Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a), duplicate samples were collected at a minimum frequency of 10% to assess sampling and analytical precision and reproducibility. Duplicate samples were collected by removing soil from a brass sleeve and placing the soil in a clean glass bowl. The soil was homogenized in the glass bowl, and placed in two 8-ounce glass jars (one for the primary sample and one for the duplicate sample).

To confirm proper decontamination between samples and determine if cross contamination of the environmental samples occurred during sampling, equipment blanks were collected on each

sampling day by each sampling team by rinsing distilled water over and through the sample shoe, and then collecting the water in appropriate sample containers.

3.2.2 Laboratory Analyses

3.2.2.1 Environmental Analyses

All soil samples for environmental analyses were delivered to American Environmental Testing Laboratory, Inc. (AETL), a California Department of Health Services-certified laboratory, under proper chain-of-custody records. Samples from the finest-grained unit encountered in each 10-foot interval were selected for the following analyses:

- Total chromium (United States Environmental Protection Agency [USEPA] Method SW3050B/6020A)
- Hexavalent chromium (USEPA Method SW3060A/7199)

The remaining samples were submitted to the laboratory and placed on hold.

3.2.2.2 Geochemical Analyses

Selected representative soil samples were analyzed for geochemical parameters by AETL. The geochemical parameters included the following:

- Total iron (USEPA Method SW3050B/6020A)
- Total manganese (USEPA Method SW3050B/6020A)
- Total sulfide (USEPA Method E376.2)
- Total organic carbon (USEPA Method SW9060/SW-846)
- pH (USEPA Method SW9045C)

3.2.2.3 Geotechnical Analyses

Selected soil samples were analyzed for physical properties by Environmental Geotechnical Laboratory, Inc. The physical properties included the following:

- Grain-size distribution (American Society for Testing and Materials [ASTM] D422)
- Dry bulk density (ASTM D2937)
- Total porosity (American Petroleum Institute [API] RP40)
- Moisture content (ASTM D2216)

3.2.2.4 Leachability Analyses

Selected soil samples were analyzed for leachability by AETL using a modified Synthetic Precipitation Leaching Procedure (SPLP) extraction with analysis of the leachate for hexavalent chromium, total chromium, and iron. The SPLP was modified as part of the investigation and is described in Appendix C.

The following analyses were performed on the leachate:

- Total chromium (USEPA Method SW6020A)
- Hexavalent chromium (USEPA Method SW7199)
- Total iron (USEPA Method SW6020A)
- pH (USEPA Method SW9040B)

3.2.2.5 Available Hexavalent Chromium Attenuation Capacity

Selected soil samples were analyzed to evaluate the attenuation capacity using an available hexavalent chromium attenuation capacity (AHCAC) analysis. The analyses were performed by AETL. The analysis is a variant of the "available chromium reducing capacity" test referenced in *Natural Attenuation of Hexavalent Chromium in Groundwater and Soils* (USEPA, 1994) and described in (Bartlett and James, 1988). The AHCAC analyses are described in detail in Appendix C.

3.3 VOLATILE ORGANIC COMPOUNDS

Per the *Revised Additional Site Investigation Work Plan, Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1, Burbank, California*, any soil samples in AOC 2, AOC 4, AOC 5, AOC 6, AOC 7, AOC 8/9, and AOC 11 with PID headspace readings exceeding 50 ppm would be analyzed for VOCs (maximum one per 10-foot interval) and soil-gas probes would be installed (maximum five per boring) and sampled (Tetra Tech, 2014a).

3.4 DEVIATIONS FROM THE WORK PLAN

Several borings were moved slightly from their original proposed locations to avoid underground utilities. All revised locations were approved by a representative of the Regional Water Quality Control Board (Regional Board). The most significant change was AOC3-1, which was moved 22 feet southeast due to the presence of multiple electric lines, fiber optic lines, SVE lines, streetlight

poles, crosswalk poles, and other unknown utility lines. The new location was approximately 15 feet from former seepage pit DW-3.

The work plan (Tetra Tech, 2014a) designated two borings within AOC 2 in accordance with the California Water Code Section 13267 Order No. R4-2013-0063 (the Order). However, the Regional Board revised the requirements for this location in a letter dated 25 March 2014. Only one boring was required between the two former dry wells. Therefore only one boring was drilled at AOC 2.

The boring in AOC 4 (AOC4-1) was proposed to extend to a depth of 150 feet bgs per the work plan (Tetra Tech, 2014a). However, saturated soil was encountered in AOC4-1 at approximately 136 to 137 feet bgs and the boring was terminated. This is in accordance with the Order, which required drilling in the vadose zone (i.e., unsaturated zone) to the fine-grained unit between 115 and 150 feet bgs. Sandy silt was encountered at 121 feet bgs in the boring, so the requirements of the Order were met.

At each soil boring, one sample per 10-foot interval was proposed for analysis of chromium and hexavalent chromium per the work plan (Tetra Tech, 2014a). However, in two intervals no samples were recovered due to gravel and cobbles: the 105- to 110-foot interval in boring AOC6-1 and the 85- to 90-foot interval in boring AOC19-1.

The HSA drilling rig experienced refusal at 135 feet bgs at boring AOC7-2 due to difficult drilling conditions and was not advanced to the target depth of 150 feet bgs. The proposed environmental sample for the 145- to 150-foot interval was not collected. Per the Order, this boring was to be drilled to the fine-grained unit between 115 and 150 feet bgs. Silty sand to sandy silt was encountered from 117 to 129 feet bgs, so the requirements of the Order were met.

Following drilling in AOC 11, the laboratory determined that the samples from one of the borings (AOC11-1) were compromised. Due to improper seals on the sample containers and ice containers, water from the melted ice had infiltrated some of the soil samples. Therefore, a replacement boring was drilled immediately adjacent to the original boring location. The new boring was designated AOC11-1R. All analytical data included in this report from that location are from boring AOC11-1R, with the exception of one geotechnical sample (the geotechnical sample was stored in a separate cooler and was not compromised).

3.5 EQUIPMENT DECONTAMINATION

Soil sampling equipment was either disposed after use or decontaminated between samples by washing with a non-phosphate detergent solution, rinsing in tap water, and rinsing in distilled water, followed by air drying or shaking to remove excess water. Drilling equipment which did not come into contact with the soil samples (augers, drill rods, etc.) was decontaminated between boreholes by high-pressure washing.

3.6 SURVEYING

The soil boring locations were surveyed for horizontal coordinates and elevation by Calvada Surveying, Inc. of Corona, California. Surveying was performed under the supervision of a California-licensed Professional Land Surveyor. Static global positioning system methods were used for surveying the location of the boreholes. Horizontal positions were provided in the California State Plane (Zone V) coordinate system relative to the North American Datum of 1983 (NAD 83); elevations were determined relative to the North American Vertical Datum of 1988 (NAVD 88). Copies of the survey data are provided in Appendix D, and the surveyed coordinates are presented on the boring logs (Appendix B).

3.7 INVESTIGATION-DERIVED WASTE MANAGEMENT

Wastes generated during the field investigation included used personal protective equipment; disposable sampling equipment; and construction debris such as concrete cores, soil cuttings, and water used for equipment decontamination. These wastes were disposed as municipal waste.

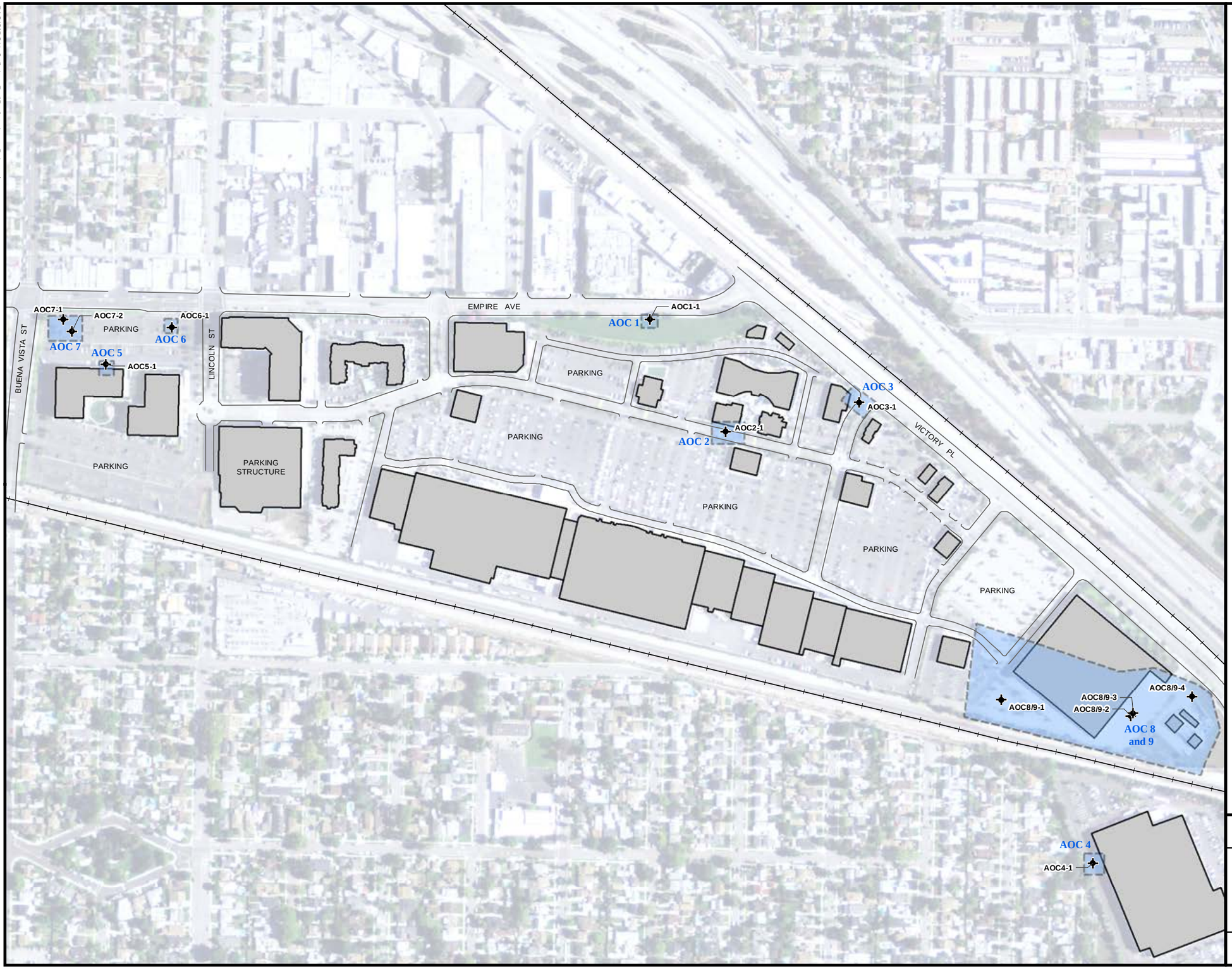
Soil cuttings were temporarily stored on-site in roll-off bins. These wastes were then sampled, profiled, and disposed at a Lockheed Martin-approved facility licensed to accept the waste, in accordance with the Lockheed Martin-approved *Waste Management Plan* developed for the project (Tetra Tech, 2014g). Copies of the waste manifests are provided in Appendix E (one of the five soil bins is still on site pending disposal).

Water used for decontamination was temporarily stored on site in labeled Department of Transportation-approved 55-gallon drums. The drum contents were sampled and profiled, and the analytical results for the waste and water volumes were provided to the nearby Burbank Operable Unit (BOU) water treatment plant (WTP) operators. The drum contents were decanted to remove suspended solids, pumped into a water trailer, and transported to the BOU WTP in accordance with

the Lockheed Martin-approved Waste Management Plan. The water was pumped to the storm water runoff treatment system (Tank 600) for treatment, with concurrence from WTP operators. Residual solids remaining in the drums were consolidated into a single drum, sampled, profiled, and is currently on site pending disposal at a Lockheed Martin-approved facility licensed to accept the waste.

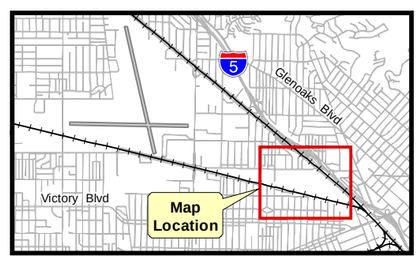
SECTION 3 FIGURES

P:\GIS\BOU_Soil_Inv_Rpt\Boring_Locs_B-1.mxd



0 200 400 Feet

- Boring Location
- Railroad
- Building Location
- AOC Location



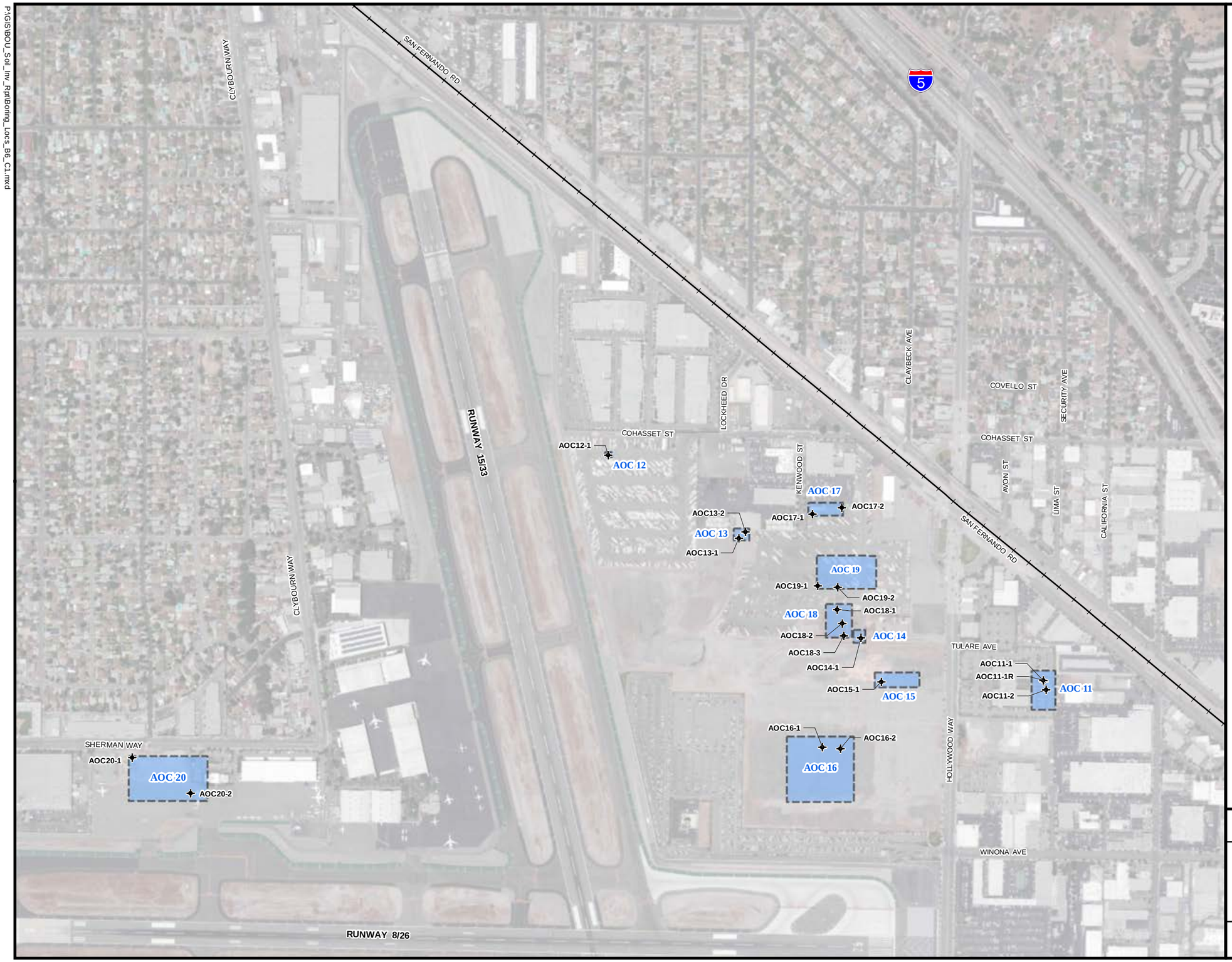
BURBANK OPERABLE UNIT

Figure 8

Boring Locations - Former Plant B-1

TETRA TECH

P:\GIS\BOU_Sal_Inv_RptBoring_Locs_B6_C1.mxd



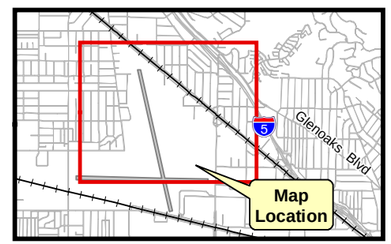
0 300 600 Feet

Boring Location

Railroad

AOC Location

Source:
National Agriculture Imagery Program aerial photo, 2012.



BURBANK OPERABLE UNIT

Figure 9

Boring Locations-
Former Plants B-6 and C-1

TETRA TECH

Section 4
ANALYTICAL RESULTS

This section provides the results of the soil investigation performed at the former Lockheed Martin Corporation (Lockheed Martin) Burbank facilities.

4.1 RESULTS

Analytical results for soil are summarized in Tables 1 through 5. Copies of the laboratory analytical reports are provided in Appendix F (chemical, geochemical, leachability, and available hexavalent chromium analyses) and Appendix G (geotechnical analyses).

4.1.1 Environmental Analyses

Analytical results for environmental analyses of soil (total chromium and hexavalent chromium) are summarized in Table 1. Copies of the laboratory analytical reports are provided in Appendix F.

4.1.1.1 Volatile Organic Compounds

Per the approved work plan eight of the 20 areas of concern (AOCs) were to be investigated for volatile organic compounds (VOCs), including AOCs 2, 4 through 9, and 11. The approved work plan indicated that soil samples would be collected for VOC testing and soil-gas probes would be installed based on field screening. However, no soil samples exhibited photo-ionization detector (PID) headspace readings greater than the field screening criteria of 50 parts per million (ppm), so no soil samples were analyzed for VOCs and no soil-gas probes were installed. The PID measurements ranged from 0.0 to 31.2 ppm.

4.1.1.2 Total Chromium

A total of 340 samples (plus 43 duplicate samples) were analyzed for total chromium using United States Environmental Protection Agency (USEPA) Method SW3050B/6020A. Total chromium was detected in all analyzed samples at concentrations ranging from 1.60 to 461 milligrams per kilogram (mg/kg). All results were reported on a dry-weight basis (moisture contents were determined by American Society for Testing and Materials [ASTM] D2216).)

4.1.1.3 Hexavalent Chromium

A total of 340 samples (plus 43 duplicate samples) were analyzed for hexavalent chromium using USEPA Method SW3060A/7199. Hexavalent chromium was detected in 43 of the 340 primary samples (12% of the samples), and the detections were limited to AOC 2 (3 detections), AOC 7 (14 detections), AOC 8/9 (16 detections), AOC 11 (7 detections), and AOC 13 (3 detections). Hexavalent chromium detections ranged from 0.217 to 32.0 mg/kg. All results were reported on a dry-weight basis (moisture contents were determined by ASTM D2216).

4.1.1.4 Trivalent Chromium

The total chromium values include both trivalent chromium and hexavalent chromium, and the trivalent chromium concentration can be calculated by subtracting the hexavalent chromium concentration from the total chromium concentration. The calculated trivalent chromium values are presented on Table 1 (when hexavalent chromium was not detected, a hexavalent chromium concentration of ½ of the method detection limit, or 0.05 mg/kg, was used for the calculation). Total chromium was present in all samples, even in borings where no hexavalent chromium was detected in any samples. These data indicate that chromium is present as a background element in these soils. Therefore, the detection of total chromium in the soil samples does not necessarily indicate that a chromium release occurred at the location of the boring.

4.1.1.5 Background Chromium Concentrations

An evaluation was performed of the total chromium concentrations for samples at locations where it is unlikely that the total chromium value was affected by a release of chromium, in order to estimate the background concentration. To avoid including data from samples that may have been affected by a release of hexavalent chromium, samples were excluded if they included detectable hexavalent chromium. In addition, samples that were within 10 or 20 feet of a sample with detectable hexavalent chromium were excluded from this dataset. The intent of this classification effort was to identify those samples which would be very unlikely to have been affected, and thus could be used to estimate the attenuation characteristics of the deeper soils. Of the 340 chromium detections, 265 were determined to be unaffected by hexavalent chromium releases, and 75 were determined to be affected or potentially affected (Table 1). For this release-unaffected dataset, the minimum and maximum total chromium concentrations were 1.6 and 111 mg/kg. The higher values (above approximately 25 mg/kg) in this dataset are from borings that did not have any nearby hexavalent

chromium detections, and thus are still considered to be representative of background concentrations. The dataset appears to be log-normally distributed, with a geometric mean value of 5.5 mg/kg and arithmetic mean of 7.2 mg/kg.

There may be low levels of naturally occurring hexavalent chromium present in some soils. Hexavalent chromium has been found in groundwater in arid areas (Izbicki and others, 2012; Ball and Izbicki, 2004; Ball and others, 2008) at concentrations exceeding 50 micrograms per liter (µg/L) in some areas. However, for the purposes of this evaluation, it is assumed that the presence of hexavalent chromium is the result of a release.

4.1.2 Geochemical Analyses

Analytical results for geochemical analyses are summarized in Table 2. Copies of the laboratory analytical reports are provided in Appendix F.

4.1.2.1 Sulfide

A total of 12 samples were analyzed for sulfide using USEPA Method E376.2. Sulfide was detected in all analyzed samples, at concentrations ranging from 0.500 to 5.54 mg/kg. Concentrations of sulfide generally increased in finer-grain soils, with average concentrations of 1.82 mg/kg, 3.51 mg/kg, and 5.18 mg/kg, for sand, silty sand, and silt samples, respectively.

4.1.2.2 Iron

A total of 12 samples were analyzed for iron using USEPA Method SW3050B/6020A. Iron was detected in all analyzed samples, at concentrations ranging from 5,300 to 35,300 mg/kg. The iron could be contained in minerals and/or dissolved in the pore water. With these concentrations, nearly all of the iron is contained in the minerals. Concentrations of iron generally increased in finer-grain soils. Iron concentrations were highest in the silt sample (35,000 mg/kg), and lowest in the sand samples (average, 8,900 mg/kg). The three silty sand samples had an intermediate average concentration of 12,700 mg/kg.

4.1.2.3 Manganese

A total of 12 samples were analyzed for manganese using USEPA Method SW3050B/6020A. Manganese was detected in all analyzed samples, at concentrations ranging from 96.6 to 666 mg/kg, nearly two orders of magnitude lower than the concentrations of iron. Similar to the iron and sulfide

results, there is an apparent relationship between the concentrations of manganese and grain size, with average concentrations of 206 mg/kg, 243 mg/kg, and 666 mg/kg, for sand, silty sand, and silt samples, respectively.

4.1.2.4 pH

A total of 26 samples were analyzed for pH using USEPA Method SW9045. The pH measurements ranged from 7.62 to 9.70. These values, with some exceptions, are in the range of pH measurements that would be expected in the western United States if acid-producing reactions, such as pyrite oxidation or leaching of organic acids, are not occurring. Evaporation during infiltration causes precipitation of calcium calcite, making soils alkaline. The higher pH measurements (9.7 and perhaps 8.8) may be higher than the background values.

The holding time for soil pH measurements is not specified by the method but the method indicates the pH should be measured as soon as possible. Because of the data-collection design, in which the samples for the geochemical measurements, including pH, were to be selected based on the detected hexavalent chromium concentrations, the soil samples for pH testing were not analyzed until approximately one month had elapsed. While it was unlikely that the pH would change significantly during the holding period, a set of pH measurements was made on soil samples from one boring (AOC4-1) within one day to provide information on whether the pH measurements were likely to change during the one month period before the other measurements were made. The measurements completed within one day ranged from 7.66 to 8.92. Figure 10 shows the histograms of these two data sets. Their histograms are similar, but suggest that the pH measurement of 9.7 from the earlier measurements may be an outlier. The similarity between the two histograms suggests that the delayed testing did not appreciably affect the pH measurements. Further, the soil samples from boring AOC4-1 were retested one month after they were collected to provide a comparison for samples collected from the other borings. The results showed a slight increase on the later samples. The percentage change in pH values in the later samples ranged from -0.11 to +6.26%, with an average change of +2.78%. As originally assumed the change was not significant.

4.1.2.5 Total Organic Carbon

A total of 12 samples were analyzed for total organic carbon using USEPA Method SW9060. Total organic carbon was detected in three analyzed samples, at concentrations ranging from 500 to 4,200 mg/kg.

4.1.3 Geotechnical Analyses

Twelve representative soil samples were selected for geotechnical analyses, including grain size analysis (sieve and hydrometer), dry bulk density, specific gravity, porosity, and moisture content. Analytical results for the geotechnical analyses are summarized in Table 3. Copies of the laboratory analytical reports are provided in Appendix G.

4.1.4 Available Hexavalent Chromium Attenuation Capacity Analyses

Available hexavalent chromium attenuation capacity (AHCAC) testing was performed on selected soil samples to determine the AHCAC using a variant of the "available chromium reducing capacity" test referenced in *Natural Attenuation of Hexavalent Chromium in Groundwater and Soils* (USEPA, 1994) and described in (Bartlett and James, 1988). The AHCAC analyses indicated that some site soils have the capacity to cause the chemical reduction of hexavalent chromium to trivalent chromium, resulting in its attenuation in the vadose zone. A description of the analysis is provided in Appendix C and analytical results for the AHCAC analyses are summarized in Table 4. Copies of the laboratory analytical reports are provided in Appendix F.

4.1.5 Leachability Analyses

Select soil samples were tested using a modified Synthetic Precipitation Leaching Procedure (SPLP) to determine the mobility of chromium present in the soil. The SPLP test is used to evaluate the fraction of the total and hexavalent chromium which is dissolved or easily dissolvable. A description of the SPLP analyses performed is provided in Appendix C.

The resulting leachates were then analyzed for total chromium (USEPA SW6020A), hexavalent chromium (USEPA SW7199), iron (USEPA SW6020A), and pH (USEPA SW9040B). Analytical results for the leachability analyses are summarized in Table 5. Copies of the laboratory analytical reports are provided in Appendix F.

4.2 DATA QUALITY ASSESSMENT

A total of 383 soil samples were collected and analyzed for total chromium and hexavalent chromium by USEPA Methods SW3050B/6020A and SW3060A/7199, respectively. Level II data validation was performed to assess the usability of the data. Data validation included evaluation of sample holding times, method and field blank sample results, laboratory control sample results,

matrix spike/matrix spike duplicate, field duplicate results, calibration compliance, compound identification, and method compliance. A total of 6.8% of the metals data were qualified as estimated (and assigned a "J" qualifier) due to the quality control exceedances. However, the data were found usable for the intended purpose. All of the qualified and unqualified data results may be used as stated and are of known and acceptable precision and accuracy. A copy of the data validation memorandum prepared by the project chemist is provided in Appendix H.

The geochemical and the attenuation evaluation data were not validated. All testing equipment was operated in accordance with method specified criteria.

As mentioned in Section 3.2.1, equipment blank samples were collected daily to confirm proper decontamination between samples and determine if cross contamination of the environmental samples occurred during sampling. The equipment blanks were analyzed as specified in Section 3.2.2.1 and the results show no environmental data were qualified because of field blank contamination. All equipment blank results were non-detect (ND).

As mentioned in Section 3.2.1, field duplicate samples were collected at a minimum frequency of 10% to assess sampling and analytical precision. Precision is established by calculating the relative percent difference (RPD) between the primary samples and the corresponding field duplicates. The RPD values indicate that 24 of the 86 field duplicate analyses were outside of control limits.

SECTION 4 TABLES

Table 1
Soil Analytical Data - Chemical Analyses

Additional Site Investigation Report
Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1
Burbank, California

Borehole	Depth (feet)	Sample Designation	Date Sampled	Total Chromium (mg/kg)	Hexavalent Chromium (mg/kg)	Trivalent Chromium* (mg/kg)	Potentially Affected Sample?**
AOC1-1	10	AOC1-1-10	9/3/2014	**6.14**	ND<0.10	**6.09**	No
	20	AOC1-1-20	9/3/2014	**1.81**	ND<0.10	**1.76**	No
	30	AOC1-1-30	9/3/2014	**5.96**	ND<0.10	**5.91**	No
	35	AOC1-1-35	9/3/2014	**3.68**	ND<0.10	**3.63**	No
	45	AOC1-1-45	9/3/2014	**21.1**	ND<0.10	**21.1**	No
	55	AOC1-1-55	9/3/2014	**16.2**	ND<0.10	**16.2**	No
	65	AOC1-1-65	9/3/2014	**11.5**	ND<0.10	**11.5**	No
	75	AOC1-1-75	9/3/2014	**3.35**	ND<0.10	**3.3**	No
	85	AOC1-1-85	9/3/2014	**10.4**	ND<0.10	**10.4**	No
	95	AOC1-1-95	9/3/2014	**6.37**	ND<0.10	**6.32**	No
	105	AOC1-1-105	9/3/2014	**18.7**	ND<0.10	**18.7**	No
	115	AOC1-1-115	9/3/2014	**8.43**	ND<0.10	**8.38**	No
	130	AOC1-1-130	9/3/2014	**16.0**	ND<0.10	**16.0**	No
	140	AOC1-1-140	9/3/2014	**3.68**	ND<0.10	**3.63**	No
	145	AOC1-1-145	9/3/2014	**13.0**	ND<0.10	**13.0**	No
AOC2-1	15	AOC2-1-15	9/4/2014	**7.40**	ND<0.10	**7.35**	**Yes**
	25	AOC2-1-25	9/4/2014	**10.5**	ND<0.10	**10.5**	**Yes**
	30	AOC2-1-30	9/4/2014	**5.12**	ND<0.10	**5.07**	**Yes**
	40	AOC2-1-40	9/4/2014	**19.6**	**0.652**	**18.9**	**Yes**
	45	AOC2-1-45	9/4/2014	**17.6**	**0.918**	**16.7**	**Yes**
	55	AOC2-1-55	9/4/2014	**16.3**	ND<0.10	**16.25**	**Yes**
	60	AOC2-1-60	9/4/2014	**4.69**	ND<0.10	**4.64**	**Yes**
	70	AOC2-1-70	9/4/2014	**20.3**	**0.217**	**20.1**	**Yes**
	75	AOC2-1-75	9/4/2014	**3.91**	ND<0.10	**3.86**	**Yes**
	80	AOC2-1-80	9/4/2014	**6.27**	ND<0.10	**6.22**	**Yes**
	90	AOC2-1-90	9/4/2014	**8.11**	ND<0.10	**8.06**	**Yes**
	100	AOC2-1-100	9/4/2014	**3.81**	ND<0.10	**3.76**	**Yes**
	110	AOC2-1-110	9/4/2014	**2.87**	ND<0.10	**2.82**	No
	120	AOC2-1-120	9/4/2014	**9.61**	ND<0.10	**9.56**	No
	125	AOC2-1-125	9/4/2014	**6.25**	ND<0.10	**6.20**	No
	135	AOC2-1-135	9/4/2014	**6.86**	ND<0.10	**6.81**	No
	140	AOC2-1-140	9/4/2014	**10.1**	ND<0.10	**10.1**	No
	150	AOC2-1-150	9/4/2014	**6.63**	ND<0.10	**6.58**	No
AOC3-1	15	AOC3-1-15	9/5/2014	**3.40**	ND<0.10	**3.35**	No
	20	AOC3-1-20	9/5/2014	**2.42**	ND<0.10	**2.37**	No
	30	AOC3-1-30	9/5/2014	**17.0**	ND<0.10	**17.0**	No
	40	AOC3-1-40	9/5/2014	**9.73**	ND<0.10	**9.68**	No
	45	AOC3-1-45	9/5/2014	**10.4**	ND<0.10	**10.4**	No
	55	AOC3-1-55	9/5/2014	**23.1**	ND<0.10	**23.1**	No
	60	AOC3-1-60	9/5/2014	**27.9**	ND<0.10	**27.9**	No
	70	AOC3-1-70	9/5/2014	**2.52**	ND<0.10	**2.47**	No
	75	AOC3-1-75	9/5/2014	**4.65**	ND<0.10	**4.60**	No
	85	AOC3-1-85	9/6/2014	**6.40**	ND<0.10	**6.35**	No
	90	AOC3-1-90	9/6/2014	**2.65**	ND<0.10	**2.60**	No
	95	AOC3-1-95	9/6/2014	**5.76**	ND<0.10	**5.71**	No
	110	AOC3-1-110	9/6/2014	**3.10**	ND<0.10	**3.05**	No
	115	AOC3-1-115	9/6/2014	**2.10**	ND<0.10	**2.05**	No
	125	AOC3-1-125	9/6/2014	**5.57**	ND<0.10	**5.52**	No
	135	AOC3-1-135	9/6/2014	**12.1**	ND<0.10	**12.1**	No
	150	AOC3-1-150	9/6/2014	**12.0**	ND<0.10	**12.0**	No
AOC4-1	5	AOC4-1-5	11/6/2014	**19.3**	ND<0.10	**19.3**	No
	15	AOC4-1-15	11/6/2014	**5.01**	ND<0.10	**4.96**	No
	25	AOC4-1-25	11/6/2014	**24.0**	ND<0.10	**24.0**	No
	40	AOC4-1-40	11/6/2014	**19.3**	ND<0.10	**19.3**	No
	50	AOC4-1-50	11/6/2014	**25.8**	ND<0.10	**25.8**	No
	55	AOC4-1-55	11/6/2014	**7.55**	ND<0.10	**7.50**	No
	65	AOC4-1-65	11/6/2014	**6.45**	ND<0.10	**6.40**	No
	75	AOC4-1-75	11/6/2014	**12.4**	ND<0.10	**12.4**	No
	90	AOC4-1-90	11/6/2014	**21.3**	ND<0.10	**21.3**	No
	95	AOC4-1-95	11/6/2014	**5.52**	ND<0.10	**5.47**	No
	110	AOC4-1-110	11/6/2014	**4.47**	ND<0.10	**4.42**	No
	120	AOC4-1-120	11/6/2014	**3.13**	ND<0.10	**3.08**	No
	130	AOC4-1-130	11/6/2014	**14.1**	ND<0.10	**14.1**	No
	135	AOC4-1-135	11/6/2014	**21.7**	ND<0.10	**21.7**	No
AOC5-1	5	AOC5-1-5	9/8/2014	**5.99**	ND<0.10	**5.94**	No
	20	AOC5-1-20	9/8/2014	**4.67**	ND<0.10	**4.62**	No
	25	AOC5-1-25	9/8/2014	**11.8**	ND<0.10	**11.8**	No
	40	AOC5-1-40	9/8/2014	**6.44**	ND<0.10	**6.39**	No
	45	AOC5-1-45	9/8/2014	**2.57**	ND<0.10	**2.52**	No
	60	AOC5-1-60	9/8/2014	**19.3**	ND<0.10	**19.3**	No
	65	AOC5-1-65	9/8/2014	**4.41**	ND<0.10	**4.36**	No

Table 1
Soil Analytical Data - Chemical Analyses

Additional Site Investigation Report
Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1
Burbank, California

Borehole	Depth (feet)	Sample Designation	Date Sampled	Total Chromium (mg/kg)	Hexavalent Chromium (mg/kg)	Trivalent Chromium* (mg/kg)	Potentially Affected Sample?**
AOC5-1	75	AOC5-1-75	9/8/2014	**17.0**	ND<0.10	**17.0**	No
	90	AOC5-1-90	9/8/2014	**4.28**	ND<0.10	**4.23**	No
	100	AOC5-1-100	9/8/2014	**8.44**	ND<0.10	**8.39**	No
	105	AOC5-1-105	9/8/2014	**11.8**	ND<0.10	**11.8**	No
	115	AOC5-1-115	9/9/2014	**2.34**	ND<0.10	**2.29**	No
	125	AOC5-1-125	9/9/2014	**13.5 Jf**	ND<0.10	**13.5**	No
	130	AOC5-1-130	9/9/2014	**3.23**	ND<0.10	**3.18**	No
	135	AOC5-1-135	9/9/2014	**3.23**	ND<0.10	**3.18**	No
	150	AOC5-1-150	9/9/2014	**3.87**	ND<0.10	**3.82**	No
AOC6-1	5	AOC6-1-5	9/10/2014	**2.98**	ND<0.10	**2.93**	No
	15	AOC6-1-15	9/10/2014	**3.55**	ND<0.10	**3.50**	No
	25	AOC6-1-25	9/10/2014	**3.80**	ND<0.10	**3.75**	No
	35	AOC6-1-35	9/10/2014	**10.3**	ND<0.10	**10.3**	No
	45	AOC6-1-45	9/10/2014	**4.03**	ND<0.10	**3.98**	No
	55	AOC6-1-55	9/10/2014	**6.11**	ND<0.10	**6.06**	No
	65	AOC6-1-65	9/10/2014	**9.72**	ND<0.10	**9.67**	No
	75	AOC6-1-75	9/10/2014	**6.29**	ND<0.10	**6.24**	No
	85	AOC6-1-85	9/10/2014	**6.48**	ND<0.10	**6.43**	No
	95	AOC6-1-95	9/10/2014	**11.7 Jf**	ND<0.10	**11.7**	No
	120	AOC6-1-120	9/10/2014	**6.27**	ND<0.10	**6.22**	No
	130	AOC6-1-130	9/10/2014	**13.7**	ND<0.10	**13.7**	No
	140	AOC6-1-140	9/10/2014	**6.3**	ND<0.10	**6.25**	No
	150	AOC6-1-150	9/10/2014	**3.06**	ND<0.10	**3.01**	No
AOC7-1	5	AOC7-1-5	9/9/2014	**5.29**	ND<0.10	**5.24**	No
	20	AOC7-1-20	9/9/2014	**3.22**	ND<0.10	**3.17**	No
	25	AOC7-1-25	9/9/2014	**13.2**	ND<0.10	**13.2**	No
	40	AOC7-1-40	9/9/2014	**4.22**	ND<0.10	**4.17**	No
	45	AOC7-1-45	9/9/2014	**2.72**	ND<0.10	**2.67**	No
	55	AOC7-1-55	9/9/2014	**5.60**	ND<0.10	**5.55**	No
	70	AOC7-1-71.5	9/9/2014	**5.31**	ND<0.10	**5.26**	No
	75	AOC7-1-75	9/9/2014	**21.2**	ND<0.10	**21.2**	No
	90	AOC7-1-90	9/9/2014	**11.3**	ND<0.10	**11.3**	No
	100	AOC7-1-100	9/9/2014	**6.92**	ND<0.10	**6.87**	No
	105	AOC7-1-105	9/9/2014	**7.57**	ND<0.10	**7.52**	No
	115	AOC7-1-115	9/9/2014	**2.65**	ND<0.10	**2.6**	No
	120	AOC7-1-120	9/10/2014	**10.5**	ND<0.10	**10.5**	No
	125	AOC7-1-125	9/10/2014	**16.4**	ND<0.10	**16.4**	No
	140	AOC7-1-140	9/10/2014	**9.17**	ND<0.10	**9.12**	No
	145	AOC7-1-145	9/10/2014	**2.81**	ND<0.10	**2.76**	No
AOC7-2	10	AOC7-2-10	9/8/2014	**65.0**	**3.93**	**61.1**	**Yes**
	20	AOC7-2-20	9/8/2014	**19.4**	**1.26**	**18.1**	**Yes**
	30	AOC7-2-30	9/8/2014	**4.10**	**0.760**	**3.34**	**Yes**
	40	AOC7-2-40	9/8/2014	**6.57 Jf**	**2.59 Jf**	**3.98**	**Yes**
	45	AOC7-2-45	9/8/2014	**4.96**	**0.627**	**4.33**	**Yes**
	55	AOC7-2-55	9/8/2014	**6.36**	**1.34**	**5.02**	**Yes**
	65	AOC7-2-65	9/8/2014	**6.36**	**0.745**	**5.62**	**Yes**
	75	AOC7-2-75	9/98/14	**10.4**	**2.41**	**7.99**	**Yes**
	90	AOC7-2-90	9/9/2014	**9.04**	**1.60**	**7.44**	**Yes**
	100	AOC7-2-100	9/9/2014	**7.11**	**2.54**	**4.57**	**Yes**
	110	AOC7-2-110	9/9/2014	**8.93**	**4.07**	**4.86**	**Yes**
	120	AOC7-2-120	9/9/2014	**22.7**	**10.5**	**12.2**	**Yes**
	130	AOC7-2-130	9/9/2014	**22.8**	**8.20**	**14.6**	**Yes**
	135	AOC7-2-135	9/9/2014	**15.4**	**2.37**	**13.0**	**Yes**
AOC8/9-1	5	AOC8/9-1-5	9/2/2014	**15.6**	**0.610**	**15.0**	**Yes**
	15	AOC8/9-1-15	9/2/2014	**461**	**32.0**	**429**	**Yes**
	25	AOC8/9-1-25	9/2/2014	**3.74**	ND<0.10	**3.69**	**Yes**
	40	AOC8/9-1-40	9/2/2014	**15.8**	ND<0.10	**15.75**	**Yes**
	45	AOC8/9-1-45	9/2/2014	**20.2**	ND<0.10	**20.15**	**Yes**
	55	AOC8/9-1-55	9/2/2014	**22.6**	**1.55**	**21.1**	**Yes**
	60	AOC8/9-1-60	9/2/2014	**7.77**	ND<0.10	**7.72**	**Yes**
AOC8/9-2	5	AOC8/9-2-5	9/2/2014	**3.71**	ND<0.10	**3.66**	**Yes**
	15	AOC8/9-2-15	9/2/2014	**16.6**	**1.39**	**15.2**	**Yes**
	30	AOC8/9-2-30	9/2/2014	**109**	**7.10**	**102**	**Yes**
	40	AOC8/9-2-40	9/2/2014	**19.8**	**5.36**	**14.4**	**Yes**
	45	AOC8/9-2-45	9/2/2014	**20.8**	**9.06**	**11.7**	**Yes**
	55	AOC8/9-2-55	9/2/2014	**49.3**	**7.53**	**41.8**	**Yes**
	60	AOC8/9-2-60	9/2/2014	**4.40**	ND<0.10	**4.35**	**Yes**
AOC8/9-3	5	AOC8/9-3-5	9/2/2014	**8.92**	ND<0.10	**8.87**	**Yes**
	15	AOC8/9-3-15	9/2/2014	**23.8**	**1.34**	**22.5**	**Yes**
	25	AOC8/9-3-25	9/2/2014	**9.93**	ND<0.10	**9.88**	**Yes**
	40	AOC8/9-3-40	9/2/2014	**24.4**	**4.81**	**19.6**	**Yes**

Table 1
Soil Analytical Data - Chemical Analyses

Additional Site Investigation Report
Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1
Burbank, California

Borehole	Depth (feet)	Sample Designation	Date Sampled	Total Chromium (mg/kg)	Hexavalent Chromium (mg/kg)	Trivalent Chromium* (mg/kg)	Potentially Affected Sample?**
AOC8/9-3	45	AOC8/9-3-45	9/2/2014	**18.3**	**3.10**	**15.2**	**Yes**
	55	AOC8/9-3-55	9/2/2014	**51.5**	**11.4**	**40.1**	**Yes**
	60	AOC8/9-3-60	9/2/2014	**9.16**	**0.533**	**8.63**	**Yes**
AOC8/9-4	10	AOC8/9-4-10	9/3/2014	**19.6 Jc**	**3.88**	**15.7**	**Yes**
	20	AOC8/9-4-20	9/3/2014	**5.84**	**0.338**	**5.50**	**Yes**
	30	AOC8/9-4-30	9/3/2014	**13.8**	ND<0.10	**13.8**	**Yes**
	40	AOC8/9-4-40	9/3/2014	**7.65**	ND<0.10	**7.6**	**Yes**
	45	AOC8/9-4-45	9/3/2014	**35.4 Jf**	**0.433**	**35.0**	**Yes**
	55	AOC8/9-4-55	9/3/2014	**7.55**	ND<0.10	**7.5**	**Yes**
AOC11-1R	10	AOC11-1R-10	9/19/2014	**5.14**	**0.956**	**4.18**	**Yes**
	20	AOC11-1R-20	9/19/2014	**2.47**	ND<0.10	**2.42**	**Yes**
	30	AOC11-1R-30	9/19/2014	**5.81**	**0.809**	**5.00**	**Yes**
	35	AOC11-1R-35	9/19/2014	**4.92**	**1.83 Jf**	**3.09**	**Yes**
	45	AOC11-1R-45	9/19/2014	**3.90**	**0.473**	**3.43**	**Yes**
	60	AOC11-1R-60	9/19/2014	**3.02**	ND<0.10	**2.97**	**Yes**
	70	AOC11-1R-70	9/19/2014	**18.4**	**0.426**	**17.97**	**Yes**
	80	AOC11-1R-80	9/19/2014	**9.75**	ND<0.10	**9.70**	**Yes**
	90	AOC11-1R-90	9/19/2014	**4.94**	ND<0.10	**4.89**	**Yes**
	100	AOC11-1R-100	9/19/2014	**10.8**	ND<0.10	**10.75**	No
AOC11-2	10	AOC11-2-10	9/4/2014	**7.17**	ND<0.10	**7.12**	**Yes**
	20	AOC11-2-20	9/4/2014	**7.28**	ND<0.10	**7.23**	**Yes**
	30	AOC11-2-30	9/4/2014	**5.93**	**0.646**	**5.28**	**Yes**
	35	AOC11-2-35	9/4/2014	**9.04**	**0.871**	**8.17**	**Yes**
	45	AOC11-2-45	9/4/2014	**11.7**	ND<0.10	**11.7**	**Yes**
	60	AOC11-2-60	9/4/2014	**8.31**	ND<0.10	**8.26**	No
	70	AOC11-2-70	9/4/2014	**3.49**	ND<0.10	**3.44**	No
	75	AOC11-2-75	9/4/2014	**5.27**	ND<0.10	**5.22**	No
	90	AOC11-2-90	9/4/2014	**2.88**	ND<0.10	**2.83**	No
	100	AOC11-2-100	9/4/2014	**8.78**	ND<0.10	**8.73**	No
AOC12-1	10	AOC12-1-10	9/19/2014	**2.49**	ND<0.10	**2.44**	No
	20	AOC12-1-20	9/19/2014	**4.95**	ND<0.10	**4.90**	No
	30	AOC12-1-30	9/19/2014	**2.91 Jf**	ND<0.10	**2.86**	No
	40	AOC12-1-40	9/19/2014	**4.79**	ND<0.10	**4.74**	No
	50	AOC12-1-50	9/19/2014	**4.43**	ND<0.10	**4.38**	No
	60	AOC12-1-60	9/19/2014	**4.66**	ND<0.10	**4.61**	No
	70	AOC12-1-70	9/19/2014	**3.56**	ND<0.10	**3.51**	No
	80	AOC12-1-80	9/19/2014	**3.01**	ND<0.10	**2.96**	No
	90	AOC12-1-90	9/19/2014	**4.20**	ND<0.10	**4.15**	No
	100	AOC12-1-100	9/19/2014	**11.0**	ND<0.10	**10.95**	No
AOC13-1	10	AOC13-1-10	9/11/2014	**9.73**	ND<0.10	**9.68**	**Yes**
	20	AOC13-1-20	9/11/2014	**5.21**	**0.645**	**4.57**	**Yes**
	25	AOC13-1-25	9/11/2014	**5.27**	**0.530**	**4.74**	**Yes**
	35	AOC13-1-35	9/11/2014	**3.98**	ND<0.10	**3.93**	**Yes**
	50	AOC13-1-50	9/11/2014	**2.85**	ND<0.10	**2.80**	**Yes**
	55	AOC13-1-55	9/11/2014	**3.26**	ND<0.10	**3.21**	No
	60	AOC13-1-60	9/11/2014	**4.70**	ND<0.10	**4.65**	No
	70	AOC13-1-70	9/11/2014	**3.80**	ND<0.10	**3.75**	No
	75	AOC13-1-75	9/11/2014	**4.07**	ND<0.10	**4.02**	No
	80	AOC13-1-80	9/11/2014	**28.1**	ND<0.10	**28.1**	No
	90	AOC13-1-90	9/11/2014	**4.44**	ND<0.10	**4.39**	No
	100	AOC13-1-100	9/11/2014	**15.2 Jf**	ND<0.10	**15.2**	No
AOC13-2	10	AOC13-2-10	9/12/2014	**8.09**	ND<0.10	**8.04**	No
	20	AOC13-2-20	9/12/2014	**3.38**	ND<0.10	**3.33**	No
	25	AOC13-2-25	9/12/2014	**2.64**	ND<0.10	**2.59**	No
	35	AOC13-2-35	9/12/2014	**3.22**	ND<0.10	**3.17**	No
	45	AOC13-2-45	9/12/2014	**3.60**	ND<0.10	**3.55**	No
	60	AOC13-2-60	9/12/2014	**3.99**	ND<0.10	**3.94**	No
	65	AOC13-2-65	9/12/2014	**2.66**	ND<0.10	**2.61**	No
	75	AOC13-2-75	9/12/2014	**2.30**	ND<0.10	**2.25**	**Yes**
	85	AOC13-2-85	9/12/2014	**5.92**	**0.396**	**5.52**	**Yes**
	90	AOC13-2-90	9/12/2014	**6.65**	ND<0.10	**6.6**	**Yes**
	100	AOC13-2-100	9/12/2014	**5.44**	ND<0.10	**5.39**	No
AOC14-1	5	AOC14-1-5	9/15/2014	**4.34**	ND<0.10	**4.29**	No
	15	AOC14-1-15	9/15/2014	**3.20**	ND<0.10	**3.15**	No
	25	AOC14-1-25	9/15/2014	**4.04**	ND<0.10	**3.99**	No
	40	AOC14-1-40	9/15/2014	**4.17**	ND<0.10	**4.12**	No
	50	AOC14-1-50	9/15/2014	**2.49**	ND<0.10	**2.44**	No
	60	AOC14-1-60	9/15/2014	**4.48**	ND<0.10	**4.43**	No
	70	AOC14-1-70	9/15/2014	**4.00**	ND<0.10	**3.95**	No
	80	AOC14-1-80	9/15/2014	**10.7**	ND<0.10	**10.7**	No
	90	AOC14-1-90	9/15/2014	**41.1**	ND<0.10	**41.1**	No

Table 1
Soil Analytical Data - Chemical Analyses

Additional Site Investigation Report
Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1
Burbank, California

Borehole	Depth (feet)	Sample Designation	Date Sampled	Total Chromium (mg/kg)	Hexavalent Chromium (mg/kg)	Trivalent Chromium* (mg/kg)	Potentially Affected Sample?**
AOC14-1	95	AOC14-1-95	9/15/2014	**16.5**	ND<0.10	**16.5**	No
	100	AOC14-1-100	9/15/2014	**3.98**	ND<0.10	**3.93**	No
AOC15-1	5	AOC15-1-5	9/11/2014	**12.9**	ND<0.10	**12.9**	No
	20	AOC15-1-20	9/11/2014	**2.46**	ND<0.10	**2.41**	No
	30	AOC15-1-30	9/11/2014	**1.60**	ND<0.10	**1.55**	No
	40	AOC15-1-40	9/11/2014	**2.82**	ND<0.10	**2.77**	No
	45	AOC15-1-45	9/11/2014	**3.50**	ND<0.10	**3.45**	No
	60	AOC15-1-60	9/11/2014	**7.48**	ND<0.10	**7.43**	No
	65	AOC15-1-65	9/11/2014	**4.67**	ND<0.10	**4.62**	No
	80	AOC15-1-80	9/11/2014	**3.89**	ND<0.10	**3.84**	No
	90	AOC15-1-90	9/11/2014	**2.39**	ND<0.10	**2.34**	No
	100	AOC15-1-100	9/11/2014	**22.1 Jf**	ND<0.10	**22.1**	No
AOC16-1	5	AOC16-1-5	9/12/2014	**9.62**	ND<0.10	**9.57**	No
	15	AOC16-1-15	9/12/2014	**2.92**	ND<0.10	**2.87**	No
	25	AOC16-1-25	9/12/2014	**4.57**	ND<0.10	**4.52**	No
	35	AOC16-1-35	9/12/2014	**4.29**	ND<0.10	**4.24**	No
	45	AOC16-1-45	9/12/2014	**3.94**	ND<0.10	**3.89**	No
	55	AOC16-1-55	9/12/2014	**3.23**	ND<0.10	**3.18**	No
	65	AOC16-1-65	9/12/2014	**4.64**	ND<0.10	**4.59**	No
	80	AOC16-1-80	9/12/2014	**3.90**	ND<0.10	**3.85**	No
	85	AOC16-1-85	9/12/2014	**7.85**	ND<0.10	**7.8**	No
	100	AOC16-1-100	9/12/2014	**23.9 Jf**	ND<0.10	**23.9**	No
AOC16-2	5	AOC16-2-5	9/12/2014	**7.94**	ND<0.10	**7.89**	No
	15	AOC16-2-15	9/12/2014	**5.41**	ND<0.10	**5.36**	No
	25	AOC16-2-25	9/12/2014	**3.01**	ND<0.10	**2.96**	No
	35	AOC16-2-35	9/12/2014	**3.44**	ND<0.10	**3.39**	No
	45	AOC16-2-45	9/12/2014	**11.6**	ND<0.10	**11.6**	No
	55	AOC16-2-55	9/12/2014	**11.3**	ND<0.10	**11.3**	No
	65	AOC16-2-65	9/12/2014	**3.82**	ND<0.10	**3.77**	No
	75	AOC16-2-75	9/12/2014	**3.79**	ND<0.10	**3.74**	No
	85	AOC16-2-85	9/12/2014	**4.61**	ND<0.10	**4.56**	No
	100	AOC16-2-100	9/12/2014	**7.67**	ND<0.10	**7.62**	No
AOC17-1	10	AOC17-1-10	9/18/2014	**6.35**	ND<0.10	**6.30**	No
	15	AOC17-1-15	9/18/2014	**9.67**	ND<0.10	**9.62**	No
	30	AOC17-1-30	9/18/2014	**5.86**	ND<0.10	**5.81**	No
	40	AOC17-1-40	9/18/2014	**4.38**	ND<0.10	**4.33**	No
	45	AOC17-1-45	9/18/2014	**6.40**	ND<0.10	**6.35**	No
	60	AOC17-1-60	9/18/2014	**3.35**	ND<0.10	**3.30**	No
	65	AOC17-1-65	9/18/2014	**5.89**	ND<0.10	**5.84**	No
	75	AOC17-1-75	9/18/2014	**5.07**	ND<0.10	**5.02**	No
	80	AOC17-1-80	9/18/2014	**7.00**	ND<0.10	**6.95**	No
	90	AOC17-1-90	9/18/2014	**3.74**	ND<0.10	**3.69**	No
	100	AOC17-1-100	9/18/2014	**9.11**	ND<0.10	**9.06**	No
AOC17-2	5	AOC17-2-5	9/18/2014	**5.80**	ND<0.10	**5.75**	No
	20	AOC17-2-20	9/18/2014	**10.0**	ND<0.10	**9.95**	No
	25	AOC17-2-25	9/18/2014	**9.00**	ND<0.10	**8.95**	No
	40	AOC17-2-40	9/18/2014	**3.61**	ND<0.10	**3.56**	No
	45	AOC17-2-45	9/18/2014	**2.89**	ND<0.10	**2.84**	No
	55	AOC17-2-55	9/18/2014	**6.91**	ND<0.10	**6.86**	No
	70	AOC17-2-70	9/18/2014	**6.98**	ND<0.10	**6.93**	No
	80	AOC17-2-80	9/18/2014	**6.30**	ND<0.10	**6.25**	No
	90	AOC17-2-90	9/18/2014	**11.7**	ND<0.10	**11.7**	No
	100	AOC17-2-100	9/18/2014	**30.3**	ND<0.10	**30.3**	No
AOC18-1	10	AOC18-1-10	9/17/2014	**3.11**	ND<0.10	**3.06**	No
	20	AOC18-1-20	9/17/2014	**2.10**	ND<0.10	**2.05**	No
	30	AOC18-1-30	9/17/2014	**2.28**	ND<0.10	**2.23**	No
	40	AOC18-1-40	9/17/2014	**3.22**	ND<0.10	**3.17**	No
	50	AOC18-1-50	9/17/2014	**3.46**	ND<0.10	**3.41**	No
	60	AOC18-1-60	9/17/2014	**2.35**	ND<0.10	**2.3**	No
	70	AOC18-1-70	9/17/2014	**4.58**	ND<0.10	**4.53**	No
	80	AOC18-1-80	9/17/2014	**4.24**	ND<0.10	**4.19**	No
	85	AOC18-1-85	9/17/2014	**11.2**	ND<0.10	**11.2**	No
	95	AOC18-1-95	9/17/2014	**6.61**	ND<0.10	**6.56**	No
	100	AOC18-1-100	9/17/2014	**5.37**	ND<0.10	**5.32**	No
AOC18-2	5	AOC18-2-5	9/15/2014	**7.48**	ND<0.10	**7.43**	No
	15	AOC18-2-15	9/15/2014	**2.63**	ND<0.10	**2.58**	No
	25	AOC18-2-25	9/15/2014	**2.27**	ND<0.10	**2.22**	No
	35	AOC18-2-35	9/15/2014	**3.31**	ND<0.10	**3.26**	No
	45	AOC18-2-45	9/15/2014	**3.80**	ND<0.10	**3.75**	No
	55	AOC18-2-55	9/15/2014	**12.7**	ND<0.10	**12.7**	No
	65	AOC18-2-65	9/15/2014	**2.14**	ND<0.10	**2.09**	No

Table 1
Soil Analytical Data - Chemical Analyses

Additional Site Investigation Report
Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1
Burbank, California

Borehole	Depth (feet)	Sample Designation	Date Sampled	Total Chromium (mg/kg)	Hexavalent Chromium (mg/kg)	Trivalent Chromium* (mg/kg)	Potentially Affected Sample?**
AOC18-2	75	AOC18-2-75	9/15/2014	**3.83**	ND<0.10	**3.78**	No
	85	AOC18-2-85	9/15/2014	**11.1**	ND<0.10	**11.1**	No
	95	AOC18-2-95	9/15/2014	**6.51**	ND<0.10	**6.46**	No
AOC18-3	5	AOC18-3-5	9/17/2014	**8.60**	ND<0.10	**8.55**	No
	20	AOC18-3-20	9/17/2014	**7.24**	ND<0.10	**7.19**	No
	30	AOC18-3-30	9/17/2014	**4.59**	ND<0.10	**4.54**	No
	40	AOC18-3-40	9/17/2014	**2.89**	ND<0.10	**2.84**	No
	45	AOC18-3-45	9/17/2014	**3.47**	ND<0.10	**3.42**	No
	55	AOC18-3-55	9/17/2014	**3.92**	ND<0.10	**3.87**	No
	60	AOC18-3-60	9/17/2014	**3.25**	ND<0.10	**3.2**	No
	70	AOC18-3-70	9/17/2014	**2.57**	ND<0.10	**2.52**	No
	75	AOC18-3-75	9/17/2014	**4.35**	ND<0.10	**4.30**	No
	90	AOC18-3-90	9/17/2014	**8.64**	ND<0.10	**8.59**	No
	95	AOC18-3-95	9/17/2014	**10.1**	ND<0.10	**10.1**	No
	100	AOC18-3-100	9/17/2014	**6.51**	ND<0.10	**6.46**	No
AOC19-1	5	AOC19-1-5	9/17/2014	**8.94**	ND<0.10	**8.89**	No
	15	AOC19-1-15	9/17/2014	**2.06**	ND<0.10	**2.01**	No
	25	AOC19-1-25	9/17/2014	**3.38**	ND<0.10	**3.33**	No
	35	AOC19-1-35	9/17/2014	**2.78**	ND<0.10	**2.73**	No
	45	AOC19-1-45	9/17/2014	**4.51**	ND<0.10	**4.46**	No
	55	AOC19-1-55	9/17/2014	**6.18**	ND<0.10	**6.13**	No
	65	AOC19-1-65	9/17/2014	**5.21**	ND<0.10	**5.16**	No
	80	AOC19-1-80	9/17/2014	**2.94**	ND<0.10	**2.89**	No
	95	AOC19-1-95	9/17/2014	**4.66**	ND<0.10	**4.61**	No
	100	AOC19-1-100	9/17/2014	**6.83**	ND<0.10	**6.78**	No
AOC19-2	10	AOC19-2-10	9/18/2014	**4.83**	ND<0.10	**4.78**	No
	20	AOC19-2-20	9/18/2014	**3.13**	ND<0.10	**3.08**	No
	30	AOC19-2-30	9/18/2014	**4.87 Jf**	ND<0.10	**4.82**	No
	40	AOC19-2-40	9/18/2014	**5.63**	ND<0.10	**5.58**	No
	50	AOC19-2-50	9/18/2014	**4.29**	ND<0.10	**4.24**	No
	60	AOC19-2-60	9/18/2014	**4.28**	ND<0.10	**4.23**	No
	70	AOC19-2-70	9/18/2014	**11.3**	ND<0.10	**11.3**	No
	75	AOC19-2-75	9/18/2014	**4.95**	ND<0.10	**4.9**	No
	85	AOC19-2-85	9/18/2014	**9.52**	ND<0.10	**9.47**	No
	95	AOC19-2-95	9/18/2014	**21.6**	ND<0.10	**21.6**	No
	100	AOC19-2-100	9/18/2014	**111**	ND<0.10	**111**	No
AOC20-1	5	AOC20-1-5	9/16/2014	**7.30**	ND<0.10	**7.25**	No
	20	AOC20-1-20	9/16/2014	**2.57**	ND<0.10	**2.52**	No
	30	AOC20-1-30	9/16/2014	**4.44**	ND<0.10	**4.39**	No
	35	AOC20-1-35	9/16/2014	**2.75**	ND<0.10	**2.70**	No
	45	AOC20-1-45	9/16/2014	**2.87**	ND<0.10	**2.82**	No
	55	AOC20-1-55	9/16/2014	**2.37**	ND<0.10	**2.32**	No
	70	AOC20-1-70	9/16/2014	**3.27**	ND<0.10	**3.22**	No
	75	AOC20-1-75	9/16/2014	**4.51**	ND<0.10	**4.46**	No
	85	AOC20-1-85	9/16/2014	**3.77**	ND<0.10	**3.72**	No
	100	AOC20-1-100	9/16/2014	**4.18**	ND<0.10	**4.13**	No
AOC20-2	5	AOC20-2-5	9/16/2014	**6.64**	ND<0.10	**6.59**	No
	15	AOC20-2-15	9/16/2014	**4.74**	ND<0.10	**4.69**	No
	25	AOC20-2-25	9/16/2014	**12.9**	ND<0.10	**12.9**	No
	35	AOC20-2-35	9/16/2014	**2.99**	ND<0.10	**2.94**	No
	45	AOC20-2-45	9/16/2014	**3.02**	ND<0.10	**2.97**	No
	55	AOC20-2-55	9/16/2014	**2.59**	ND<0.10	**2.54**	No
	65	AOC20-2-65	9/16/2014	**9.34**	ND<0.10	**9.29**	No
	75	AOC20-2-75	9/16/2014	**10.5**	ND<0.10	**10.5**	No
	85	AOC20-2-85	9/16/2014	**5.92**	ND<0.10	**5.87**	No
	100	AOC20-2-100	9/16/2014	**7.54**	ND<0.10	**7.49**	No

Notes:

mg/kg = milligrams per kilogram

ND<# = analyte not detected; method detection limit concentration is shown

J = the analyte was positively identified, but the analyte concentration is an estimated value

f = the duplicate samples' Relative Percent Difference (RPD) was outside the control limit

c = the matrix spike (MS) and/or matrix spike duplicate (MSD) recoveries were outside control limits

* Trivalent chromium value shown is the difference between the total chromium and hexavalent chromium, and not based directly on laboratory results; in the case of hexavalent chromium=ND, 1/2 of the method detection limit (i.e., 0.05) was used as the hexavalent chromium value

** "**Yes**" indicates the sample is considered affected or potentially by a historical hexavalent chromium release as described in Section 4.1.1.5

Table 2
Soil Analytical Data - Geochemical Analyses

Additional Site Investigation Report
Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1
Burbank, California

Borehole	Depth (feet)	Sample Designation	Date Sampled	USCS Classification	Sulfide (mg/kg)	Iron (mg/kg)	Manganese (mg/kg)	pH	Total organic carbon (mg/kg)
AOC4-1	5	AOC4-1-5	11/6/2014	SM	NA	NA	NA	7.66	NA
	15	AOC4-1-15	11/6/2014	SW	NA	NA	NA	8.92	NA
	25	AOC4-1-25	11/6/2014	ML	NA	NA	NA	8.14	NA
	40	AOC4-1-40	11/6/2014	SM	NA	NA	NA	8.15	NA
	50	AOC4-1-50	11/6/2014	ML	NA	NA	NA	8.04	NA
	55	AOC4-1-55	11/6/2014	SP	NA	NA	NA	8.71	NA
	65	AOC4-1-65	11/6/2014	SW	NA	NA	NA	8.88	NA
	75	AOC4-1-75	11/6/2014	SP-SM	NA	NA	NA	8.91	NA
	90	AOC4-1-90	11/6/2014	ML	NA	NA	NA	7.99	NA
	95	AOC4-1-95	11/6/2014	SP	NA	NA	NA	8.40	NA
	110	AOC4-1-110	11/6/2014	SP	NA	NA	NA	8.80	NA
	120	AOC4-1-120	11/6/2014	SP	NA	NA	NA	8.76	NA
	130	AOC4-1-130	11/6/2014	ML	NA	NA	NA	8.16	NA
	135	AOC4-1-135	11/6/2014	ML	NA	NA	NA	8.31	NA
AOC7-1	145	AOC7-1-145	9/9/2014	SP	**1.68**	**6,590**	**125**	8.29	ND<500
AOC7-2	10	AOC7-2-10	9/8/2014	SP	**4.40**	**10,700**	**208**	8.18	ND<500
	55	AOC7-2-55	9/8/2014	SM	**2.22**	**6,560**	**112**	8.20	**500**
	120	AOC7-2-120	9/9/2014	SM	**5.54**	**17,200**	**301**	7.62	ND<500
	135	AOC7-2-135	9/9/2014	SP	**1.68**	**8,700**	**143**	7.79	ND<500
AOC8/9-1	15	AOC8/9-1-15	9/2/2014	SM	**2.78**	**14,400**	**317**	7.80	**4,200**
	60	AOC8/9-1-60	9/2/2014	SP	**1.54**	**10,500**	**158**	8.46	ND<500
AOC8/9-2	30	AOC8/9-2-30	9/2/2014	SP	**0.840**	**6,500**	**96.6**	9.70	ND<500
AOC8/9-3	60	AOC8/9-3-60	9/2/2014	SP	**1.72**	**12,000**	**617**	8.42	ND<500
AOC8/9-4	45	AOC8/9-4-45	9/3/2014	ML	**5.18**	**35,300**	**666**	8.08	**1,300**
AOC11-1R	35	AOC11-1R-35	9/19/2014	SP	**0.500**	**5,300**	**98.0**	8.42	ND<500
	100	AOC11-1R-100	9/19/2014	SW	**2.24**	**11,100**	**204**	8.83	ND<500

Notes: mg/kg = milligrams per kilogram

NA = not analyzed

ND<# = analyte not detected; method detection limit concentration is shown

USCS = Unified Soil Classification System

ML = lean silt

SM = silty sand

SP = poorly graded sand

SW = well graded sand

Table 3
Soil Analytical Data - Geotechnical Analyses

Additional Site Investigation Report
Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1
Burbank, California

Borehole	Depth (feet)	Sample Designation	Date Sampled	USCS Soil Type	Moisture Content (%)	Dry Density (pcf)	Specific Gravity	Total Porosity (%)
AOC1-1	131	AOC1-1-131	9/3/2014	SW-SM	6.5	101.0	2.718	40.49
	136	AOC1-1-136	9/3/2014	SM	11.7	119.9	2.717	29.31
AOC2-1	61	AOC2-1-61	9/4/2014	SW	6.1	121.3	2.714	28.38
AOC3-1	56	AOC3-1-56	9/5/2014	ML	26.4	97.9	2.781	43.58
AOC5-1	41	AOC5-1-41	9/8/2014	SP-SM	2.9	105.1	2.695	37.55
AOC7-1	75.5	AOC7-1-75.5	9/9/2014	SP	2.5	100.0	2.694	40.53
AOC7-2	125	AOC7-2-125	9/9/2014	ML	21.0	102.3	2.750	40.44
AOC11-1	30	AOC11-1-30	9/5/2014	SP-SM	4.7	93.6	2.71	44.60
AOC13-2	66.5	AOC13-2-66.5	9/12/2014	SP	4.3	104.9	2.723	38.32
AOC14-1	75	AOC14-1-75	9/15/2014	SW-SM	2.9	114.7	2.701	31.99
AOC17-1	101	AOC17-1-101	9/18/2014	SM	4.8	109.8	2.738	35.79
AOC20-2	25	AOC20-2-25	9/16/2014	SP-SM	4.0	103.8	2.675	37.86

Notes: USCS = Unified Soil Classification System

pcf = pounds per cubic foot

ND<# = analyte not detected; method detection limit concentration is shown

Table 4
Soil Analytical Data - Available Hexavalent Chromium Attenuation Analyses

Additional Site Investigation Report
Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1
Burbank, California

Borehole	Depth (feet)	Sample Designation	Date Sampled	USCS Classification	Potentially Affected Sample?*	Soil Available Hexavalent Chromium Attenuation Capacity (µg/g)
AOC1-1	140	AOC1-1-140	9/3/2014	SW	No	**1.58**
AOC2-1	140	AOC2-1-140	9/4/2014	SM	No	**0.60**
	150	AOC2-1-150	9/4/2014	SW	No	**6.31**
AOC3-1	150	AOC3-1-150	9/6/2014	SM	No	**0.40**
AOC5-1	115	AOC5-1-115	9/8/2014	SP	No	**3.35**
	150	AOC5-1-150	9/8/2014	SW	No	**8.53**
AOC6-1	150	AOC6-1-150	9/10/2014	SP	No	**2.45**
AOC7-1	145	AOC7-1-145	9/9/2014	SP	No	**3.81**
AOC7-2	10	AOC7-2-10	9/8/2014	SP	**Yes**	**3.04**
	55	AOC7-2-55	9/8/2014	SM	**Yes**	**3.38**
	75	AOC7-2-75	9/8/2014	SW	**Yes**	**14.6**
	110	AOC7-2-110	9/9/2014	SP	**Yes**	**2.92**
	120	AOC7-2-120	9/9/2014	SM	**Yes**	**1.89**
	135	AOC7-2-135	9/9/2014	SP	**Yes**	**4.37**
AOC8/9-1	15	AOC8/9-1-15	9/2/2014	SM	**Yes**	**1.13**
	45	AOC8/9-1-45	9/2/2014	ML	**Yes**	**0.51**
	60	AOC8/9-1-60	9/2/2014	SP	**Yes**	**3.89**
AOC8/9-2	30	AOC8/9-2-30	9/2/2014	SP	**Yes**	**3.48**
	40	AOC8/9-2-40	9/2/2014	ML	**Yes**	**0.66**
	55	AOC8/9-2-55	9/2/2014	ML	**Yes**	**0.00**
AOC8/9-3	60	AOC8/9-3-60	9/2/2014	SP	**Yes**	**0.30**
AOC8/9-4	45	AOC8/9-4-45	9/3/2014	ML	**Yes**	**0.00**
	55	AOC8/9-4-55	9/3/2014	SP-SM	**Yes**	**0.56**
AOC11-1R	35	AOC11-1R-35	9/19/2014	SP	**Yes**	**1.40**
	100	AOC11-1R-100	9/19/2014	SW	No	**17.3**
AOC11-2	90	AOC11-2-90	9/4/2014	SP	No	**13.1**
AOC13-1	55	AOC13-1-55	9/11/2014	SM	No	**6.27**
	90	AOC13-1-90	9/11/2014	SW	No	**10.7**
AOC13-2	100	AOC13-2-100	9/12/2014	SM	No	**20.0**

Notes:

µg/g = micrograms per gram

USCS = Unified Soil Classification System

ML = lean silt

SM = silty sand

SP = poorly graded sand

SP-SM = poorly graded sand with silt

SW = well graded sand

* "**Yes**" indicates the sample is considered affected or potentially by a historical hexavalent chromium release as described in Section 4.1.1.5

Table 5
Soil Analytical Data - Leachability Analyses

Additional Site Investigation Report
Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1
Burbank, California

Borehole	Depth (feet)	Sample Designation	Date Sampled	USCS Classif-ication	Potentially Affected sample?*	SPLP Extraction with Extraction Fluid #2 (pH=5.0)				SPLP Extraction with Extraction Fluid #2 (deionized water)			
						Chromium (µg/L)	Hexavalent chromium (µg/L)	Iron (µg/L)	pH	Chromium (µg/L)	Hexavalent chromium (µg/L)	Iron (µg/L)	pH
AOC7-1	145	AOC7-1-145	9/9/2014	SP	No	ND<2.00	ND<2.00	**54.3**	6.14	ND<2.00	ND<2.00	**24.0**	7.42
AOC7-2	10	AOC7-2-10	9/8/2014	SP	**Yes**	**26.4**	**10.0**	**9.96**	7.37	**37.7**	**14.8**	**116**	7.33
	55	AOC7-2-55	9/8/2014	SM	**Yes**	**53.9**	**21.9**	**37.7**	6.82	**147**	**52.8**	**17.8**	6.83
	120	AOC7-2-120	9/9/2014	SM	**Yes**	**478**	**204**	**51.7**	6.89	**406**	**220**	**77.7**	6.28
	135	AOC7-2-135	9/9/2014	SP	**Yes**	**264**	**92.6**	**45.0**	6.60	**332**	**149**	**32.0**	7.01
AOC8/9-1	15	AOC8/9-1-15	9/2/2014	SM	**Yes**	**153**	**55.2**	**232**	7.44	**182**	**69.4**	**155**	7.29
	60	AOC8/9-1-60	9/2/2014	SP	**Yes**	**8.6**	**3.49**	**50.2**	7.89	**12.5**	**4.64**	**49.5**	7.34
AOC8/9-2	30	AOC8/9-2-30	9/2/2014	SP	**Yes**	**51.8**	**20.8**	**35.7**	8.99	**76.8**	**23.5**	**23.6**	9.42
AOC8/9-3	60	AOC8/9-3-60	9/2/2014	SP	**Yes**	**62.5**	**23.8**	**27.0**	7.49	**62.9**	**26.9**	**29.1**	7.16
AOC8/9-4	45	AOC8/9-4-45	9/3/2014	ML	**Yes**	**56.7**	**22.0**	**96.4**	7.78	**78.3**	**33.7**	**75.8**	7.44
AOC11-1R	35	AOC11-1R-35	9/19/2014	SP	**Yes**	**270**	**104**	**73.1**	5.86	**239**	**158**	**24.8**	7.13
	100	AOC11-1R-100	9/19/2014	SW	No	ND<2.00	ND<2.00	53.70	6.62	ND<2.00	ND<2.00	**39.0**	7.18

Notes: SPLP = Synthetic Precipitation Leaching Procedure

µg/L = micrograms per liter

ND<# = analyte not detected; method detection limit concentration is shown

USCS = Unified Soil Classification System

ML = lean silt

SM = silty sand

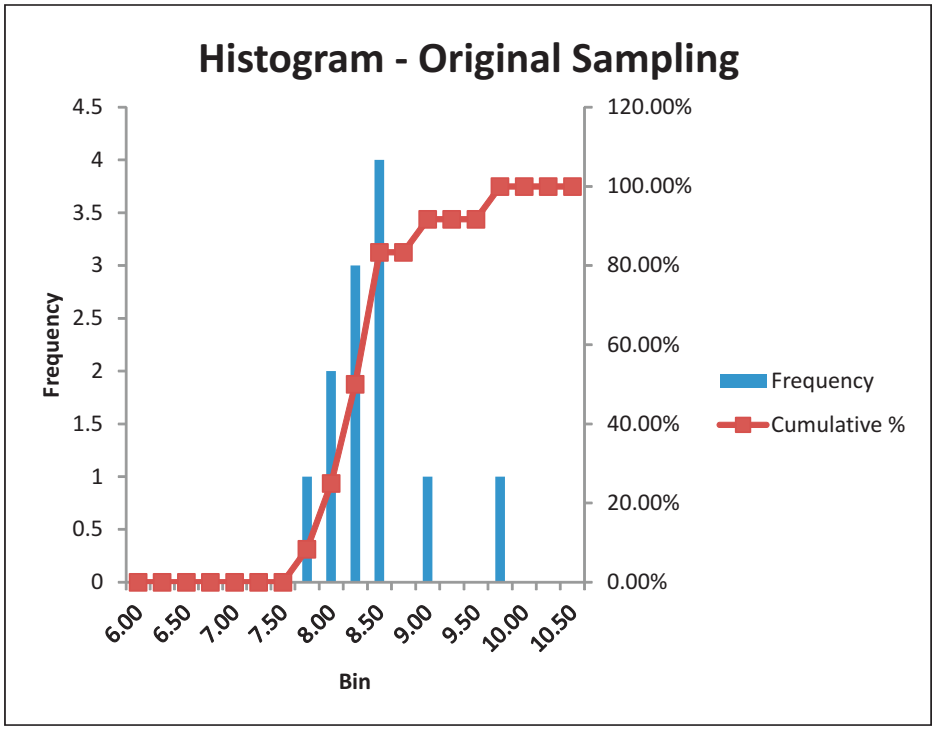
SP = poorly graded sand

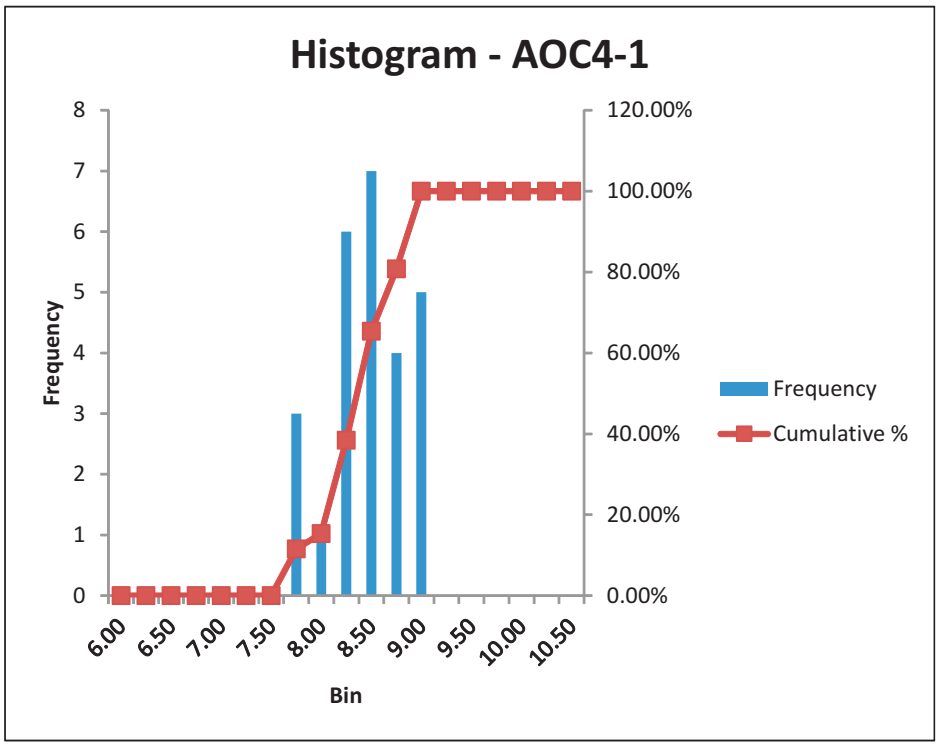
SW = well graded sand

* "**Yes**" indicates the sample is considered affected or potentially by a historical hexavalent chromium release as described in Section 4.1.1.5

SECTION 4 FIGURES

P:\GIS\BOU_SOIL_INV_RPT\CORELVAOC4-1_HISTOGRAM





BURBANK OPERABLE UNIT

Figure 10
Histograms of pH Measurements from Original Sampling and from AOC4-1

TETRA TECH

Section 5
HEXAVALENT CHROMIUM EVALUATION

Dissolved hexavalent chromium in the vadose zone can undergo attenuation processes and understanding the degree to which the conditions for this exist is an important component of the investigation of a release of this chemical. Under certain conditions, hexavalent chromium can be reduced to the less toxic trivalent chromium in soils. Understanding the attenuation capacity of a site requires that the following be determined 1) that there are natural reductants present, 2) the amount of hexavalent chromium and other reactive constituents do not exceed the capacity to reduce them, 3) the trivalent chromium will remain immobile, and 4) there is no net oxidation of trivalent chromium to hexavalent chromium. This section of the document describes an overview of the hexavalent chromium evaluation performed for the site. A more detailed description of the presence and mobility of chromium is provided in Appendix C.

5.1 GEOCHEMICAL PARAMETERS

The data from the geochemical analyses (Section 4.1.2) indicate that iron- and sulfide-bearing minerals are present. These minerals may react to cause reduction and precipitation of hexavalent chromium if chemical conditions are appropriate.

Organic carbon was detected in three of the analyzed samples, and its presence appears to be associated with higher trivalent chromium concentrations. Manganese was also present in the samples at concentrations much lower than the iron concentrations. While manganese has been found to cause oxidation of trivalent chromium to hexavalent chromium, it is unlikely that this manganese is present in a form and at concentrations that would cause this to occur, and there were no observed relationships between manganese concentrations and trivalent or hexavalent chromium concentrations.

Finally, the pH data indicate that the soils are alkaline, with all pH measurements higher than 7.6.

5.2 AVAILABLE HEXAVALENT CHROMIUM ATTENUATION CAPACITY

Selected soil samples were analyzed to evaluate the attenuation capacity using an available hexavalent chromium attenuation capacity (AHCAC) analysis. The analysis is a variant of the "available chromium reducing capacity" test referenced in Natural Attenuation of Hexavalent Chromium in Groundwater and Soils (United States Environmental Protection Agency [USEPA], 1994) and described in Bartlett and James (1988).

As described in Section 4.1.1.5, the term "unaffected" is used to represent the samples which are unlikely to have been affected by hexavalent chromium releases. The majority of these samples are from borings that did not contain any detectable hexavalent chromium. The term "affected" is used, for ease of reference, to indicate the remaining samples, which are affected or potentially affected by releases.

For the purposes of predicting the potential for future hexavalent chromium movement to the water table, the value for AHCAC that will be used for unaffected soils will be the average for the unaffected samples less the average for those samples with detectable hexavalent chromium, or 5.38 mg/kg (7.26 mg/kg minus 1.88 mg/kg).

5.3 SYNTHETIC PRECIPITATION LEACHING PROCEDURE

The modified synthetic precipitation leaching procedure (SPLP) tests were performed on the same 12 soil samples selected for the geochemical analyses (Table 5), providing soil pH data for comparison with the leachate pH data from the SPLP tests. These included 2 samples deemed to be unaffected and 10 samples deemed to be affected. The leachates for the 2 samples in the unaffected grouping (AOC7-1-145 and AOC11-1R-100) did not contain detectable chromium, even though both soil samples contained trivalent chromium. The leachates from affected soil samples contained both hexavalent chromium and trivalent chromium, and the trivalent chromium concentrations were consistently higher than those of hexavalent chromium. The trivalent chromium could have been present in the pore water, which is unlikely given its low solubility at neutral to slightly alkaline pH; could have been released by dissolution of trivalent chromium-bearing hydroxide or oxyhydroxide solids; or could have been produced by reduction of hexavalent chromium in the pore water. The measured iron concentrations are typical of iron concentrations in equilibrium with iron hydroxide [$Fe(OH)_3$] or iron oxyhydroxide (FeOOH), but are much higher than would be in equilibrium with

chromium-iron hydroxide [$Cr_xFe_{1-x}(OH)_3$] or oxyhydroxide compounds. Thus, it is unlikely that the trivalent chromium was released by dissolution of chromium-iron hydroxide or oxyhydroxide compounds.

The presence of the trivalent chromium is best explained by reduction of hexavalent chromium, consistent with the presence of measurable AHCAC in the soils. While no geochemical speciation modeling was performed, it is likely that at the pH values of the samples, the Eh of the water will be controlled by the solubility of the iron hydroxide or iron oxyhydroxide at a value where trivalent chromium would be the prevalent chromium oxidation state.

Calculations of the mass of chromium in the leachate from the SPLP tests indicate that the mass of chromium (total chromium, hexavalent chromium + trivalent chromium) in the leachate is less than 10% of the mass of hexavalent chromium contained in the soil samples. For individual samples, the percentage ranges from 2% to nearly 60% of the mass of hexavalent chromium in the soil sample; the higher values occur with the samples that had low hexavalent chromium concentrations in the soil samples. The low mass in the leachate would suggest either the hexavalent chromium value in the soil sample represents both aqueous and solid-bound hexavalent chromium, or that it represents only aqueous hexavalent chromium, with only a portion of the aqueous hexavalent chromium being removed in the SPLP test.

The SPLP testing provided two important pieces of information:

1. The interaction between the soil and the leaching solutions released iron, hexavalent chromium, and trivalent chromium from the soils.
2. The total mass of chromium released in the SPLP tests was less than 10% of the mass of hexavalent chromium present in the soils, indicating either that some of the hexavalent chromium is present in a low-solubility form, or that it is removed from the leachate by precipitation. This percentage is consistent with the presence of AHCAC remaining in the sample. Additional leaching steps would release additional hexavalent chromium, but not more than the original mass of hexavalent chromium in the sample.

5.4 HEXAVALENT CHROMIUM ATTENUATION ASSESSMENT

This initial assessment of the likelihood that hexavalent chromium present in the vadose zone at the locations of the borings was conducted in the manner outlined by USEPA (1994). The USEPA document recommends determining whether the following criteria are met.

1. There are natural reductants present.
2. The amount of hexavalent chromium and other reactive constituents do not exceed the capacity to reduce them.
3. The rate of hexavalent chromium reduction is greater than the rate of transport of the aqueous hexavalent chromium.
4. The trivalent chromium remains immobile.
5. There is no net oxidation of trivalent chromium to hexavalent chromium.

Item 3 is not considered in this initial evaluation. Determining the kinetics of hexavalent chromium reduction in the soil column is difficult. Therefore, evaluating Item 3 has been postponed until it has been determined that it is necessary. However, it is known that the land use and operational practices at the various areas of concern (AOCs) have changed in ways that would tend to reduce infiltration rates and thus slow the movement of water and dissolved hexavalent chromium.

5.4.1 Presence of Natural Reductants

Natural reductants have been demonstrated to be present in the soils. The most direct evidence for their presence is provided by the AHCAC testing. The AHCAC testing shows that the soils are capable of reducing and removing hexavalent chromium from the test solutions. As expected, there is variability in the AHCAC values. The maximum AHCAC for the unaffected samples was about 20 mg/kg, and the average was approximately 7 mg/kg. The soils that were deemed to be affected by releases also have AHCAC. Nearly all samples that contained hexavalent chromium still had AHCAC remaining.

5.4.2 Comparison of the Mass of Hexavalent Chromium and the AHCAC

In order for the AHCAC of the soil to reduce the hexavalent chromium in the soil column and prevent it from reaching the water table, there must be sufficient AHCAC available in the soil column below the hexavalent chromium. The simplest way to evaluate this would be to estimate the

mass of hexavalent chromium available for further transport, and compare that mass to the total AHCAC between the greatest depth of detected hexavalent chromium and the water table.

Table 6 provides the estimates of the mass of hexavalent chromium at the location of the indicated boring from the land surface down to the depth of the last sample that indicated the presence of hexavalent chromium, and the integrated AHCAC from that depth down to the water table. The comparison is presented as a ratio; if the ratio is less than 1, then it is likely that there is sufficient AHCAC below the depth of greatest observed migration to attenuate the hexavalent chromium. The comparison assumes that 100% of the mass of hexavalent chromium is available for transport. In other words, all of the hexavalent chromium is leachable and no attenuation will occur at depths shallower than the maximum depth of detected hexavalent chromium (a conservative estimate). Also shown are results which assume that only 10% of the observed hexavalent chromium concentration is mobile.

The mass of hexavalent chromium is much less than the AHCAC in AOC2-1, AOC11-1R, AOC11-2, and AOC13-1, even assuming that 100% the hexavalent chromium is mobile. In these locations, the future migration of hexavalent chromium to the water table is unlikely. However, if all of the hexavalent chromium is mobile in borings AOC7-2 and AOC8/9-1, the hexavalent chromium mass that is present appears to exceed the AHCAC below the bottom of the borings.

Appendix C provides a detailed description of the evaluation. In summary, the evaluation revealed:

1. The AHCAC below the depth of greatest observed migration greatly exceeds the mass of hexavalent chromium in borings AOC2-1, AOC11-1R, AOC11-2, and AOC13-1, even if 100% of the hexavalent chromium is mobile.
2. The extent of the present hexavalent chromium migration was not determined in boring AOC7-2, and the observed depth of migration is within 35 feet of the water table. It is possible that migration to the water table has already occurred.
3. The borings in AOCs 8 and 9 only extend to depths of 55 or 60 feet and the depth to water is approximately 145 feet. Thus, the extent of hexavalent chromium migration below 60 feet is unknown. The known hexavalent chromium mass in boring AOC8/9-1 exceeds the deeper AHCAC if all of the hexavalent chromium is mobile. However, if only 10% is mobile, then the depth to where the AHCAC becomes less than the mobile mass is above but close to the water table. The presently known hexavalent chromium mass is less for the other borings in

AOC8/9. However, it is still possible that migration to the water table could occur if only 10% of the mass is mobile.

4. It is unlikely that future migration would reach the water table at AOC13-2. The mass of hexavalent chromium observed in the boring is likely to be too low to exceed the AHCAC below the depth of the boring.

5.4.3 Stability of Trivalent Chromium

The range of soil pH observed is within the range consistent with the stability of trivalent chromium. The pH is unlikely to shift to values outside the range of observed soil pH measurements, and the chromium hydroxide and chromium-iron hydroxide precipitates are stable over a larger pH range than observed. Unless the trivalent chromium is oxidized to hexavalent chromium, the trivalent chromium should remain stable, as explained in Appendix C.

5.4.4 No Net Oxidation of Trivalent Chromium to Hexavalent Chromium

The attenuation of hexavalent chromium is achieved by reduction to trivalent chromium followed by precipitation of a low-solubility compound. If the trivalent chromium-bearing solid is oxidized, then the resulting hexavalent chromium will be mobile. Trivalent chromium can be oxidized by reduction of manganese and by decreasing the pH to low levels. If the AHCAC is exhausted, then oxidation by manganese can be a concern.

No laboratory tests were performed to evaluate the stability of the trivalent chromium. However, indirect evidence indicates that this is unlikely. First, during logging of the borings, the geologists were instructed to note any manganese coatings, which would be formed if manganese were being reduced to Mn(II) by oxidation of trivalent chromium, because of re-oxidation by atmospheric oxygen. None were observed. Second, the ratio of total iron to total manganese in the samples ranges from 19 to 67, with an average of 53, so that if oxidation of trivalent chromium by manganese occurs, the hexavalent chromium will likely be re-reduced by the iron. Thus, release of hexavalent chromium by the manganese present in the soils is not expected to occur.

5.5 SUMMARY

The evaluation of the data from the borings indicates:

- Only the borings from AOCs 2, 7, 8, 9, 11, and 13 contained samples that had hexavalent chromium detected in the soil.
- The chemistry of the soil can promote the reduction of hexavalent chromium to trivalent chromium which would be followed by precipitation of the trivalent chromium to a low-solubility solid phase, resulting in natural attenuation of the hexavalent chromium.
- The attenuation capacity for limiting the further migration of hexavalent chromium appears to be sufficient at AOCs 2, 11, and 13 to prevent the detected hexavalent chromium from migrating to the water table.
- At AOCs 7, 8, and 9, the attenuation capacity may be insufficient to prevent the migration to the water table.

The rate of water migration downward through the vadose zone has not been evaluated. The change in use of the properties and resulting changes in water-use practices has likely decreased the rate of water movement, and thus would have reduced the potential of any continued migration of hexavalent chromium vertically toward the water table.

SECTION 5 TABLES

Table 6
Comparison of Hexavalent Chromium Mass and Total Available Hexavalent Chromium Attenuation Capacity

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Boring	100% hexavalent chromium mass			10% hexavalent chromium mass		
	Hexavalent chromium mass (mg)	Total AHCAC (mg)	Hexavalent chromium mass/AHCAC	Hexavalent chromium mass (mg)	Total AHCAC (mg)	Hexavalent chromium mass/AHCAC
AOC2-1	24	430	0.06	2	430	0.01
AOC7-2	413	156	2.65	41	156	0.26
AOC8/9-1	841	457	1.84	84	457	0.18
AOC8/9-2	271	457	0.59	27	457	0.06
AOC8/9-3	207	425	0.49	21	425	0.05
AOC8/9-4	70	425	0.16	7	425	0.02
AOC11-1R	60	753	0.08	6	753	0.01
AOC11-2	16	942	0.02	2	942	0.00
AOC13-1	14	995	0.01	1	995	0.00
AOC13-2	8	807	0.01	1	807	0.00

Notes: mg = milligrams

AHCAC = available hexavalent chromium attenuation capacity

Section 6
CONCEPTUAL SITE MODELS

This section provides updates to the Conceptual Site Models (CSMs) for the specified features at each area of concern (AOC) that was investigated. Each CSM update describes the local geologic and hydrogeologic conditions, the results from this investigation, a determination of the adequacy of delineation, and an assessment of the potential for the use of the feature to impact groundwater. Detailed descriptions of the historical use of the AOCs, and the previous investigation and remedial history of the AOCs were provided in the *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a), and have been included in Appendix I of this report.

Between one and five features located within 19 AOCs were investigated. The AOCs are located within three of Lockheed Martin Corporation's (Lockheed Martin's) former plants B-1, B-6, and C-1. For ease of reference, each AOC has been assigned a number corresponding to the sequence in which they were presented in the Order; the locations of these numbered areas are shown on Figures 8 and 9. As discussed earlier in Section 1 of the document, AOC 10 was held in abeyance by the Regional Water Quality Control Board, Los Angeles (Regional Board) and was not investigated. Therefore, an update to the CSM for AOC 10 will not be provided.

6.1 AOC 1 – PLANT B-1 SEEPAGE PIT DW-1

Seepage Pit DW-1 was located north of the current Hometown Buffet restaurant building within the Burbank Empire Center shopping district, south of Empire Avenue. The location of the feature is currently overlain by a landscaped area. The location will be developed in 2015 as part of the Empire Avenue Underpass project.

6.1.1 Geology and Hydrogeology within AOC 1

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 1 is underlain by sand from approximately 0 to 43 feet below ground surface (bgs), silty sand to sand with silt from 43 to 67 feet bgs, sand with gravel and cobbles from 67 to 95 feet bgs, and interbedded sand and silty sand from 95 to at least 150 feet bgs, as presented on Figure 11. In April

2014, the depth to groundwater beneath AOC 1 was approximately 155 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is in the northern portion of the former Plant B-1 within the 1 microgram per liter (µg/L) hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figure 7.

6.1.2 Results of the Current Investigation

One boring, AOC1-1, was advanced in the vicinity of the former feature to a depth of 150 feet bgs. The location of the boring is shown on Figures 8 and 11. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 1.81 to 21.1 mg/kg. Hexavalent chromium was not detected in the samples (less than 0.10 mg/kg).

6.1.3 Adequacy of Delineation

Hexavalent chromium was not detected in any of the samples submitted for testing as part of this investigation. Therefore, there do not appear to be hexavalent chromium impacts that require additional delineation at this AOC.

6.1.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with seepage pit DW-1 represent a potential ongoing or future source of hexavalent chromium in soil or to groundwater.

6.2 AOC 2 – PLANT B-1 DRY WELLS DW-2 AND DW-2A

Dry Wells DW-2 and DW-2A were located immediately south of the current Outback Steakhouse restaurant within the Burbank Empire Center shopping district. The locations of the former dry wells are currently overlain by an asphalt-paved private road within the parking lot for the Empire Center.

6.2.1 Geology and Hydrogeology within AOC 2

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 2 is underlain by fill from approximately 0 to 12 feet bgs, sand from 11 to 40 feet bgs (with some silty sand present locally at 15 feet bgs), silty sand and sandy silt from 40 to 48 feet bgs, sand from 48 to 55 feet bgs, silty sand and sandy silt from 55 to 60 feet bgs, sand with gravel and cobbles

from 60 to 120 feet bgs, silty sand from 120 to 124 feet bgs, sand from 124 to 136 feet bgs, interbedded sand, silt, and clay from 136 to 145 feet bgs, and sand from 142 to at least 150 feet bgs, as presented on Figure 12. In April 2014, the depth to groundwater beneath AOC 2 was approximately 155 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is located in the northern portion of former Plant B-1 within the 100-µg/L tetrachloroethene (PCE), 5-µg/L trichloroethene (TCE), and 1-µg/L (hexavalent chromium) groundwater plume contours, as mapped by Tetra Tech (2014b) and shown on Figures 4, 5, and 7, respectively.

6.2.2 Results of the Current Investigation

One boring, AOC2-1, was advanced between the former features to a depth of 150 feet bgs. The location of the boring is shown on Figures 8 and 12. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 2.87 to 20.3 mg/kg. Hexavalent chromium was detected in three samples collected at 40 feet bgs, 45 feet bgs, and 70 feet bgs at concentrations ranging from 0.217 to 0.918 mg/kg. Hexavalent chromium was not detected in the remaining samples (less than 0.10 mg/kg).

All soil samples were screened with a photo-ionization detector (PID). The PID readings ranged from 0.0 to 5.2 parts per million (ppm). In accordance with the approved work plan, no samples were submitted for VOC analyses and soil-gas probes were not installed since none of the PID readings exceeded the 50-ppm field screening criteria.

6.2.3 Adequacy of Delineation

The dry wells and the adjacent soil were previously removed and the historical borings delineated the horizontal and vertical extent of hexavalent chromium in soil.

The supplemental boring installed as part of this investigation generally confirmed the earlier findings. The boring was advanced in a location between the two former dry wells and delineated the depth of hexavalent chromium in soil in that location. The deepest hexavalent chromium detection was at a depth of 70 feet, and the deepest sample tested was from 150 feet.

PID readings were below the screening criteria of 50 ppm. Therefore, there do not appear to be VOC impacts that require additional delineation.

6.2.4 Potential for Impact to Groundwater

The mass of hexavalent chromium detected in boring AOC2-1 is low, and the available hexavalent chromium attenuation capacity (AHCAC) below the depth of greatest observed migration greatly exceeds the mass of hexavalent chromium, even if 100% of the hexavalent chromium were mobile. The potential for this hexavalent chromium to impact the groundwater is low.

Based on the previous investigations and removals conducted at AOC 2 and the data collected and analyzed as part of this investigation, neither Dry Well DW-2 or DW-2A appear to represent a significant potential ongoing or future source of hexavalent chromium or VOCs in soil or to groundwater.

6.3 AOC 3 – PLANT B-1 SEEPAGE PIT DW-3

Former seepage pit DW-3 is in the area of the commercial buildings consisting of Catherine's Plus Sizes, a dental office, and Payless Shoes within the Burbank Empire Center shopping district, and is currently overlain by concrete sidewalk.

6.3.1 Geology and Hydrogeology within AOC 3

Based on the current investigation and review of boring logs from nearby borings, AOC 3 is underlain by silty sand from approximately 0 to 7 feet bgs, sand from 7 to 28 feet bgs, silty sand and sand with silt from 28 to 48 feet bgs, sand from 48 to 52 feet bgs, silty sand and sandy silt from 52 to 67 feet bgs, sand with gravel to sandy gravel from 66 to 102 feet bgs, sand from 102 to 112 feet bgs, silty sand and sand with silt from 112 to 117 feet bgs, silty sand from 117 to 120 feet bgs, sand from 120 to 147 feet bgs, and silty sand from 147 to at least 150 feet bgs, as presented on Figure 13. In April 2014, the depth to groundwater beneath AOC 3 was approximately 155 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is in the northern portion of the former Plant B-1 within the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figure 7.

6.3.2 Results of the Current Investigation

One boring, AOC3-1, was advanced in the vicinity of the former feature to a depth of 150 feet bgs. The location of the boring is shown on Figures 8 and 13. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium

analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 2.42 to 27.9 mg/kg. Hexavalent chromium was not detected in the samples tested (less than 0.10 mg/kg).

6.3.3 Adequacy of Delineation

Hexavalent chromium was not detected in the samples tested from boring AOC3-1. Therefore, there do not appear to be hexavalent chromium impacts that require additional delineation.

6.3.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with seepage pit DW-3 represent a potential ongoing or future source of hexavalent chromium in soil or to groundwater.

6.4 AOC 4 – PLANT B-1 SEEPAGE PIT DW-4

Seepage Pit DW-4 is located west of the current Costco building, immediately east of residential houses. The location of the feature is overlain by an asphalt parking lot.

6.4.1 Geology and Hydrogeology within AOC 4

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 4 is underlain by silty sand from approximately 0 to 7 feet bgs, sand from 7 to 25 feet bgs, sandy silt from 25 to 27 feet bgs, sand from 27 to 37 feet bgs, silty sand and sandy silt from 37 to 52 feet bgs, sand from 52 to 57 feet bgs, sand with gravel to sandy gravel from57 to 88 feet bgs, sandy silt from 88 to 92 feet bgs, sand from 92 to 121 feet bgs, and silty sand to sandy silt from 121 to at least 137 feet bgs, as presented on Figure 14. In April 2014, the depth to groundwater beneath AOC 4 was approximately 135 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is located in the southern portion of former Plant B-1 within the 50-µg/L PCE, 50-µg/L TCE, and 1-µg/L hexavalent chromium groundwater plume contours, as mapped by Tetra Tech (2014b) and shown on Figures 4, 5, and 7.

6.4.2 Results of the Current Investigation

One boring, AOC4-1, was advanced in the vicinity of the former feature to a depth of 137 feet bgs. The location of the boring is shown on Figures 8 and 14. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium

analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 3.13 to 25.8 mg/kg. Hexavalent chromium was not detected in the samples (less than 0.10 mg/kg).

All soil samples were screened with a PID. The PID readings ranged from 0.0 to 5.5 ppm. In accordance with the approved work plan, no samples were submitted for VOC analyses and soil-gas probes were not installed since none of the PID readings exceeded the 50-ppm field screening criteria.

6.4.3 Adequacy of Delineation

Hexavalent chromium was not detected in the samples tested from boring AOC4-1, and PID readings were below the screening criteria of 50 ppm. Therefore, there do not appear to be hexavalent chromium or VOC impacts that require additional delineation.

6.4.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with seepage pit DW-4 represent a potential ongoing or future source of hexavalent chromium or VOCs in soil or to groundwater.

6.5 AOC 5 – PLANT B-1 SEEPAGE PIT DW-5

Seepage pit DW-5 is located under the northern portion of the Deluxe Digital Studios office building.

6.5.1 Geology and Hydrogeology within AOC 5

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 5 is underlain by sand from approximately 0 to 22 feet bgs, silty sand from 22 to 27 feet bgs, sand from 27 to 57 feet bgs, silty sand from 57 to 62 feet bgs, sand from 62 to 67 feet bgs, sand with gravel and cobbles from 67 to 122 feet bgs (with a silty sand interbed at 100 feet bgs), and sand with varying amounts of gravel from 122 to at least 150 feet bgs, as presented on Figure 15. In April 2014, the depth to groundwater beneath AOC 5 was approximately 170 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. AOC 5 is located in the northwestern portion of former Plant B-1 within the 500-µg/L PCE and 50-µg/L TCE groundwater plume contours, and outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figures 4, 5, and 7.

6.5.2 Results of the Current Investigation

One boring, AOC5-1, was advanced in the vicinity of the former feature to a depth of 150 feet bgs. The location of the boring is shown on Figures 8 and 15. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 2.34 to 17.0 mg/kg. Hexavalent chromium was not detected in the samples (less than 0.10 mg/kg).

All soil samples were screened with a PID. The PID readings ranged from 0.0 to 2.5 ppm. In accordance with the approved work plan and subsequent Regional Board correspondence, no samples were submitted for VOC analyses and soil-gas probes were not installed since none of the photo ionization detector readings exceeded the 50-ppm field screening criteria.

6.5.3 Adequacy of Delineation

Hexavalent chromium was not detected in the samples tested from boring AOC5-1 and PID readings were below the screening criteria of 50 ppm. Therefore, there do not appear to be hexavalent chromium or VOC impacts that require additional delineation.

6.5.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with seepage pit DW-5 represent a potential ongoing or future source of hexavalent chromium or VOCs in soil or to groundwater.

6.6 AOC 6 – PLANT B-1 SEEPAGE PIT DW-6

Seepage pit DW-6 is located north of the Deluxe Digital Studios office building. The location of the former features is overlain by an asphalt-paved parking lot.

6.6.1 Geology and Hydrogeology within AOC 6

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 6 is underlain by sand from approximately 0 to 26 feet bgs, silty sand from 26 to 32 feet bgs, sand from 32 to 52 feet bgs, silty sand from 52 to 58 feet bgs, sand from 58 to 62 feet bgs, sand with gravel and cobbles from 60 to 112 feet bgs, sand from 112 to 127 feet bgs, silty sand from 127 to 132 feet bgs, and sand with varying amount of gravel from 132 to at least 150 feet bgs, as presented

on Figure 16. In April 2014, the depth to groundwater beneath AOC 6 was approximately 170 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. AOC 5 is located in the northwestern portion of former Plant B-1 within the 500-µg/L PCE and 25-µg/L TCE groundwater plume contours, and outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figures 4, 5, and 7.

6.6.2 Results of the Current Investigation

One boring, AOC6-1, was advanced in the vicinity of the former feature to a depth of 150 feet bgs. The location of the boring is shown on Figures 8 and 16. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 2.98 to 13.7 mg/kg. Hexavalent chromium was not detected in the samples (less than 0.10 mg/kg).

All soil samples were screened with a PID. The PID readings ranged from 2.4 to 36.6 ppm. In accordance with the approved work plan and subsequent Regional Board correspondence, no samples were submitted for VOC analyses and soil-gas probes were not installed since none of the photo ionization detector readings exceeded the 50-ppm field screening criteria.

6.6.3 Adequacy of Delineation

Hexavalent chromium was not detected in boring AOC6-1 and PID readings were below the screening criteria of 50 ppm. Therefore, there do not appear to be hexavalent chromium or VOC impacts that require additional delineation.

6.6.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with seepage pit DW-6 represent a potential ongoing or future source of hexavalent chromium or VOCs in soil or to groundwater.

6.7 AOC 7 – PLANT B-1 BUILDING 175 VAPOR DEGREASER AND CLARIFIER

The former location Building 175 degreaser and clarifiers are located north of an office building (Deluxe Digital Studios), and southeast of the intersection of West Empire Avenue and North Buena Vista Street. The location of the former features is overlain by an asphalt-paved parking lot.

6.7.1 Geology and Hydrogeology within AOC 7

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 7 is underlain by sand from approximately 0 to 17 feet bgs, silty sand from 17 to 27 feet bgs, sand from 27 to 62 feet bgs (with silty sand locally present at 55 feet bgs), sand with gravel and cobbles from 62 to 103 feet bgs, interbedded sand, sand with gravel, and silty sand from 103 to sand from 103 to 122 feet bgs, sandy silt from 122 to 128 feet bgs, and sand with varying amounts of gravel from 132 to at least 150 feet bgs, as presented on Figure 17. In April 2014, the depth to groundwater beneath AOC 7 was approximately 170 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. AOC 7 is located in the northwestern portion of former Plant B-1 within the 500-µg/L PCE and 50-µg/L TCE groundwater plume contours, and outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figures 4, 5, and 7.

6.7.2 Results of the Current Investigation

One boring, AOC7-1, was advanced in the vicinity of former Clarifier B-1-ZC to a depth of 150 feet bgs, and one boring, AOC7-2, was advanced in the vicinity of the former degreaser to a depth of 135 feet bgs. The locations of the borings are shown on Figures 8 and 17. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 2.65 to 21.2 mg/kg in boring AOC7-1, and from 4.10 to 65.0 mg/kg in boring AOC7-2. Hexavalent chromium was not detected in the samples collected from boring AOC7-1 (less than 0.10 mg/kg). Hexavalent chromium was detected in all soil samples collected from boring AOC7-2, at concentrations ranging from 0.627 to 10.5 mg/kg.

All soil samples were screened with a PID. The PID readings ranged from 0.0 to 26.5 ppm in boring AOC7-1, and from 1.2 to 23.5 ppm in boring AOC7-2. In accordance with the approved work plan and subsequent Regional Board correspondence, no samples were submitted for VOC analyses and soil-gas probes were not installed since none of the PID readings exceeded 50-ppm field screening criteria.

6.7.3 Adequacy of Delineation

The vertical extent of hexavalent chromium migration has not been determined deeper than 135 feet bgs in the boring AOC7-2 within AOC 7. Additionally, the horizontal extent of hexavalent chromium in soil has not been determined.

The PID readings from both borings in AOC 7 were below the screening criteria of 50 ppm. Therefore, there do not appear to be ongoing VOC impacts that require additional delineation.

6.7.4 Potential for Impact to Groundwater

Based on data collected as part of this investigation, it does not appear that activities associated with former Clarifier B-1-ZC represent a potential ongoing or future source of hexavalent chromium in soil or to groundwater. There is potential for hexavalent chromium impact to groundwater at the location of the former degreaser characterized by boring AOC7-2. Hexavalent chromium was detected at a depth of 135 feet, approximately 35 feet above the water table (based on April 2014 groundwater levels [Tetra Tech, 2014b]),and the mass of hexavalent chromium is estimated to exceed the AHCAC. However, the area overlying the footprint of the former degreaser is paved with asphalt-concrete, reducing the chance of rainwater infiltration, and thereby reducing the potential for hexavalent chromium to be mobilized.

Based on site data, it does not appear that activities associated with former Clarifier B-1-ZC nor the former degreaser represent a significant potential ongoing or future source of VOCs in soil or to groundwater.

6.8 AOC 8 AND AOC 9 – PLANT B-1 FORMER BURIED WASTE AREA

The Abandoned Waste Disposal Site (AWDS) was located in the southeast corner of the former Plant B-1 facility. Portions of the AWDS encompassed the area south and east of former Building 149 and former Buildings 194, 195, and 196. This area was believed to have been used as a disposal site for paint sludge, solvents, construction debris, and general manufacturing waste generated at the plant in the 1940s. Currently, portions of the AWDS (including former Buildings 194 and 195) are overlain by an unoccupied commercial building and the soil-vapor extraction (SVE) system treatment plant. The remaining areas are covered by the associated asphalt-paved parking lot.

6.8.1 Geology and Hydrogeology within AOC 8 and AOC 9

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 8 and AOC 9 are underlain by interbedded silty sand, sand, sand with gravel and cobbles, and sandy silt to depths of at least 60 feet bgs, as presented on Figure 18. In April 2014, the depth to groundwater beneath AOC 8 and AOC 9 was approximately 130 to 145 feet as mapped by Tetra Tech (2014b) and shown on Figure 3. These areas of concern are located in the southeastern portion of former Plant B-1 within the 5-µg/L PCE, 5- to 50-µg/L TCE, and 1-µg/L hexavalent chromium groundwater plume contours, as mapped by Tetra Tech (2014b) and shown on Figures 4, 5, and 7.

6.8.2 Results of the Current Investigation

Four borings were advanced within the AWDS to depths of 60 feet bgs. The locations of the borings are shown on Figures 8 and 18. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Samples from the finest-grained unit encountered in each 10-foot interval were selected for analysis. Total chromium was detected at concentrations ranging from 3.71 to 461 mg/kg. Hexavalent chromium was detected in 16 of 27 soil samples at concentrations ranging from 0.338 to 32.0 mg/kg. Hexavalent chromium was not detected in the remaining samples (less than 0.10 mg/kg).

All soil samples were screened with a PID. The PID readings ranged from 0.0 to 2.1 ppm. In accordance with the approved work plan, no samples were submitted for VOC analyses and soil-gas probes were not installed since none of the photo ionization detector readings exceeded the 50-ppm field screening criteria.

6.8.3 Adequacy of Delineation

The vertical extent of hexavalent chromium migration has not been determined deeper than 60 feet bgs in the four borings within AOC 8 or AOC 9. Additionally, the horizontal extent of hexavalent chromium in soil has not been determined.

The PID readings from all borings in AOC 8 and AOC 9 were below the screening criteria of 50 ppm. Therefore, there do not appear to be ongoing VOC impacts that require additional delineation in the locations tested as part of this investigation.

6.8.4 Potential for Impact to Groundwater

There is potential for hexavalent chromium impacts to groundwater at boring AOC8/9-1. The vertical extent of hexavalent chromium migration has not been investigated below 60 feet bgs, which is estimated to be more than 100 feet above the water table based on April 2014 groundwater levels (Tetra Tech, 2014b).

There is potential for hexavalent chromium impacts to groundwater at borings AOC8/9-2 and AOC8/9-3. The vertical extent has not been investigated below 60 feet at either location. The estimated masses of hexavalent chromium at depths less than 60 feet are less than in AOC8/9-1, but they are greater than observed in AOC7-2, which had hexavalent chromium detections down to 135 feet bgs.

There is potential for hexavalent chromium impacts to groundwater at boring AOC8/9-4. The vertical extent has not been investigated below 60 feet. The observed mass of hexavalent chromium in boring AOC8/9-4 is less than the other borings in AOC8/9, and less than observed in AOC7-2 above 60 feet bgs.

Although there is potential for hexavalent chromium impacts based on the AHCAC study, the majority of the former AWS is paved with asphalt-concrete and/or Portland-cement concrete. This reduces the chance of rainwater infiltration, and thereby reducing the potential for hexavalent chromium to be mobilized.

Based on data collected as part of this investigation, it does not appear that activities associated with the former buried waste area represent a significant potential ongoing or future source of VOCs in soil or to groundwater.

6.9 AOC 11 – PLANT B-6 BUILDING 371 FORMER CHROMIUM PASSIVATION AREA

The former plating line and dip tank line (CPL-1) and former Zyglo Processing System are located immediately east of the current Starz building. The locations of the former features are currently overlain by an asphalt-paved parking lot.

6.9.1 Geology and Hydrogeology within AOC 11

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 11 is underlain by sand from approximately 0 to 22 feet bgs, sand with gravel from 22 to 27 feet bgs, sand from 27 to 53 feet bgs, sand with gravel and cobbles from 53 to 62 feet bgs, sand from 62 to 75 feet bgs, sand with gravel and cobbles from 75 to 87 feet bgs, sand from 87 to 92 feet bgs, and sand with gravel and cobbles from 92 to at least 100 feet bgs, as presented on Figure 19. In April 2014, the depth to groundwater beneath AOC 11 was approximately 220 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is located in the eastern portion of former Plant B-6 within the 5-µg/L PCE, 5-µg/L TCE groundwater plume contours, and outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figures 4, 5, and 7.

6.9.2 Results of the Current Investigation

One boring, AOC11-1R, was advanced in the vicinity of the former plating line to a depth of 100 feet bgs, and one boring, AOC11-2, was advanced in the vicinity of the removal area associated with the Zyglo system in the location of the highest historical hexavalent chromium detection. Both borings were advanced to a depth of 100 feet bgs. The locations of the borings are shown on Figures 9 and 19. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 2.47 to 18.4 mg/kg in boring AOC11-1R, and from 2.88 to 11.7 mg/kg in boring AOC7-2. Hexavalent chromium was detected in five soil samples collected from boring AOC11-1R, at concentrations ranging from 0.426 to 1.83 mg/kg. Hexavalent chromium was detected in two soil samples collected from boring AOC11-2, at concentrations of 0.646 and 0.871 mg/kg, collected at 30 feet and 35 feet bgs, respectively. Hexavalent chromium was not detected in the remaining samples (less than 0.10 mg/kg).

All soil samples were screened with a PID. The PID readings ranged from 0.8 to 31.2 ppm in boring AOC11-1R, and from 0.1 to 6.2 ppm in boring AOC11-2. In accordance with the approved work plan and subsequent Regional Board correspondence, no samples were submitted for VOC analyses and soil-gas probes were not installed since none of the PID readings exceeded the 50-ppm field screening criteria.

6.9.3 Adequacy of Delineation

The borings advanced as part of this investigation appear to have adequately delineated the depth of hexavalent chromium in soil at the specific features included in the investigation. In addition, the historical borings appear to have adequately delineated the horizontal extent of hexavalent chromium in soil as well.

PID readings in both borings were below the screening criteria of 50 ppm. Therefore, based on the data collected as part of this investigation, there does not appear to be the need for additional delineation of VOC impacts at the specific features investigated as part of this investigation.

6.9.4 Potential for Impact to Groundwater

The potential for hexavalent chromium impacts to groundwater near borings AOC11-1R and AOC11-2 are low. The mass of hexavalent chromium detected in boring AOC11-1 and AOC11-2 are low, and the available hexavalent chromium attenuation capacity (AHCAC) below the depth of greatest observed migration greatly exceeds the mass of hexavalent chromium, even if 100% of the hexavalent chromium were mobile. The potential for this hexavalent chromium to impact the groundwater is low.

Based on the data reviewed as part of this investigation, it appears the activities associated with the former Building 371 chromium passivation area and the Zyglo system removal area do not represent a significant potential ongoing or future source of VOCs in soil or to groundwater.

6.10 AOC 12 – PLANT B-6 BUILDING 357 SEEPAGE PITS

The former Building 357 seepage pits (DW-1 and DW-2) are located in a lot currently used for storage of trucks. The locations of the former seepage pits are currently overlain by an asphalt-paved parking lot.

6.10.1 Geology and Hydrogeology within AOC 12

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 12 is underlain by sand from 0 to 42 feet bgs, sand with gravel and cobbles from 42 to 57 feet bgs, sand from 57 to 82 feet bgs, and interbedded sand and sand with gravel from 82 to at least 100 feet bgs, as presented on Figure 20. There may be more scattered, thin, fine-grained interbeds within the sand, but the boring logs indicate that fine-grained units are not extensive or continuous. In April

2014, the depth to groundwater beneath AOC 12 was approximately 250 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is located in the northwest portion of former Plant B-6 outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figure 7.

6.10.2 Results of the Current Investigation

One boring, AOC12-1, was advanced in the vicinity of the former features to a depth of 100 feet bgs. The location of the boring is shown on Figures 9 and 20. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 2.49 to 11.0 mg/kg. Hexavalent chromium was not detected in the samples (less than 0.10 mg/kg).

6.10.3 Adequacy of Delineation

Hexavalent chromium was not detected in the samples tested from boring AOC12-1. Therefore, there do not appear to be hexavalent chromium impacts that require additional delineation.

6.10.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with the Building 357 seepage pits represent a potential ongoing or future source of hexavalent chromium in soil or to groundwater.

6.11 AOC 13 – PLANT B-6 BUILDING 353 DRY WELLS AND CLARIFIER B-6-F

The former Building 353 dry wells (DW-3 through DW-5) and clarifier B-6-F are located in a lot just south of Hertz Entertainment Services on Bob Hope Airport property. The location of the former dry well is overlain by dirt with sparse native vegetation.

6.11.1 Geology and Hydrogeology within AOC 13

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 13 is underlain by sand with varying amounts of gravel from 0 to 90 feet bgs (with local silty sand interbeds from 52 to 57 feet and 67 to 77 feet bgs) and silty sand from 90 to at least 100 feet bgs, as presented on Figure 21. There may be more scattered, thin, fine-grained interbeds within the sand, but the boring logs indicate that fine-grained units are not extensive or continuous.

In April 2013, the depth to groundwater beneath AOC 13 was approximately 240 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is located in the northern portion of former Plant B-6 outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figure 7.

6.11.2 Results of the Current Investigation

One boring, AOC13-1, was advanced in the vicinity of former dry wells DW-4 and DW-5 to a depth of 100 feet bgs, and one boring, AOC13-2, was advanced in the vicinity of former dry well DW-3 to a depth of 100 feet bgs. The locations of the borings are shown on Figures 9 and 21. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 2.85 to 28.1 mg/kg in boring AOC13-1, and from 2.30 to 8.09 mg/kg in boring AOC13-2. Hexavalent chromium was detected in two soil samples collected from boring AOC13-1, at concentrations of 0.645 and 0.530 mg/kg, collected at 20 feet and 25 feet bgs, respectively. Hexavalent chromium was detected in one soil sample collected from boring AOC13-2, at a concentration of 0.396 mg/kg, collected at 85 feet bgs. Hexavalent chromium was not detected in the remaining samples (less than 0.10 mg/kg).

6.11.3 Adequacy of Delineation

The vertical extent of hexavalent chromium migration appears to have been adequately determined at AOC 13, and the relatively low levels of hexavalent chromium detected do not require additional horizontal delineation.

6.11.4 Potential for Impact to Groundwater

The potential for future hexavalent chromium impacts to groundwater at the locations of AOC13-1 and AOC13-2 are low. The deepest detection of hexavalent chromium in boring AOC13-1 was at 25 feet bgs and the single detection (0.396 mg/kg) of hexavalent chromium in boring AOC13-2 was at 85 feet bgs. The depth to water is estimated to be approximately 240 feet bgs based on April 2014 groundwater levels (Tetra Tech, 2014b).

The mass of hexavalent chromium detected in boring AOC13-1 is low, and the available hexavalent chromium attenuation capacity (AHCAC) below the depth of greatest observed migration greatly

exceeds the mass of hexavalent chromium, even if 100% of the hexavalent chromium were mobile. The potential for this hexavalent chromium to impact the groundwater is low.

It is unlikely that future migration would reach the water table at AOC13-2. Although the data from the boring did not conclusively determine the vertical extent of contamination, the mass of hexavalent chromium observed in the boring is likely to be too low to exceed the AHCAC below the depth of the boring.

6.12 AOC 14 – PLANT B-6 BUILDING 340 DRY WELL

The former Building 340 dry well (DW-8) is located west of Hollywood Way on Bob Hope Airport property. The location of the former dry well is overlain by dirt with sparse native vegetation.

6.12.1 Geology and Hydrogeology within AOC 14

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 14 is underlain by sand from 0 to 67 feet bgs, sand with gravel and cobbles from 67 to 97 feet bgs, and sand from 97 to at least 100 feet bgs, as presented on Figure 22. There may be scattered, thin, fine-grained interbeds within the sand, but the boring logs indicate that fine-grained units are not extensive or continuous. In April 2014, the depth to groundwater beneath AOC 14 was approximately 230 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is located in the central portion of former Plant B-6 outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figure 7.

6.12.2 Results of the Current Investigation

One boring, AOC14-1, was advanced in the vicinity of the former features to a depth of 100 feet bgs. The location of the boring is shown on Figures 9 and 22. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 2.49 to 41.1 mg/kg. Hexavalent chromium was not detected in the samples (less than 0.10 mg/kg).

6.12.3 Adequacy of Delineation

Hexavalent chromium was not detected in the samples tested from borehole AOC14-1. Therefore, there do not appear to be hexavalent chromium impacts that require additional delineation.

6.12.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with the Building 340 dry well represent a potential ongoing or future source of hexavalent chromium in soil or to groundwater.

6.13 AOC 15 – PLANT B-6 BUILDINGS 332-333 SEEPAGE PITS

The former Buildings 332-333 seepage pits are located west of Hollywood Way on Bob Hope Airport property. The locations of the former seepage pits are overlain by an asphalt-paved empty lot.

6.13.1 Geology and Hydrogeology within AOC 15

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 15 is underlain by sand from 0 to 17 feet bgs, silty sand from 17 to 22 feet bgs, sand from 22 to 57 feet bgs, interbedded sand and sand with gravel and cobbles from 57 to 92 feet bgs, and silty sand from 92 to at least 1000 feet bgs, as presented on Figure 23. There may be more scattered, thin, fine-grained interbeds within the sand, but the boring logs indicate that fine-grained units are not extensive or continuous. In April 2014, the depth to groundwater beneath AOC 15 was approximately 225 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is located in the northern portion of former Plant B-6 outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figure 7.

6.13.2 Results of the Current Investigation

One boring, AOC15-1, was advanced in the vicinity of the former features to a depth of 100 feet bgs. The location of the boring is shown on Figures 9 and 23. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 1.60 to 22.1 mg/kg. Hexavalent chromium was not detected in the samples (less than 0.10 mg/kg).

6.13.3 Adequacy of Delineation

Hexavalent chromium was not detected in the samples tested form borehole AOC15-1. Therefore, there do not appear to be hexavalent chromium impacts that require additional delineation.

6.13.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with the Building 332-333 seepage pits represent a potential ongoing or future source of hexavalent chromium in soil or to groundwater.

6.14 AOC 16 – PLANT B-6 BUILDING 310 METAL FINISHING LINES, SUMP, AND SAND TRAPS

The Building 310 metal finishing lines, sump, and sand traps are located west of Hollywood Way on Bob Hope Airport property. The locations of the former features are overlain by dirt with sparse native vegetation.

6.14.1 Geology and Hydrogeology within AOC 16

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 16 is underlain by interbedded sand and sand with gravel and cobbles, as presented on Figure 24. There are scattered, thin, fine-grained interbeds of silty sand within the coarser-grained units, but the boring logs indicate that fine-grained units are not extensive or continuous. In April 2014, the depth to groundwater beneath AOC 16 was approximately 220 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is located in the southern portion of former Plant B-6 outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figure 7.

6.14.2 Results of the Current Investigation

One boring, AOC16-1, was advanced in the vicinity of former metal finishing line CPL-3 and Sand Trap 4 to a depth of 100 feet bgs, and one boring, AOC16-2, was advanced in the vicinity of the former metal finishing line CPL-4 and Sand Trap 5 to a depth of 100 feet bgs. The locations of the boring are shown on Figures 9 and 24. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 2.92 to 23.9 mg/kg in boring AOC16-1, and from 3.01 to 11.06 mg/kg in boring AOC16-2. Hexavalent chromium was not detected in any of the samples (less than 0.10 mg/kg).

6.14.3 Adequacy of Delineation

Hexavalent chromium was not detected in any historic or contemporary borings. Therefore, there do not appear to be hexavalent chromium impacts that require additional delineation.

6.14.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with the Building 310 metal finishing lines and sand traps represent a potential ongoing or future source of hexavalent chromium in soil or to groundwater.

6.15 AOC 17 – PLANT B-6 BUILDING 88 SEEPAGE PITS

The former Building 88 seepage pits (DW-6 and DW-7) are located in a lot currently used for storage of trucks. The location of the former dry wells is currently overlain by an asphalt-paved parking lot.

6.15.1 Geology and Hydrogeology within AOC 17

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 17 is underlain by interbedded sand and sand with gravel and cobbles from 0 to 97 feet bgs, and silty sand from 97 to at least 100 feet bgs, as presented on Figure 25. There are scattered, thin, fine-grained interbeds of silty sand within the coarser-grained units, but the boring logs indicate that fine-grained units are not extensive or continuous. In April 2014, the depth to groundwater beneath AOC 17 was approximately 240 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is located in the northern portion of former Plant B-6 outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figure 7.

6.15.2 Results of the Current Investigation

One boring, AOC17-1, was advanced in the vicinity of former seepage pit DW-6 to a depth of 100 feet bgs, and one boring, AOC17-2, was advanced in the vicinity of former seepage pit DW-7 to a depth of 100 feet bgs. The locations of the boring are shown on Figures 9 and 25. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 3.35 to 9.67 mg/kg in boring AOC17-1, and from 2.89 to 30.3 mg/kg in boring AOC17-2. Hexavalent chromium was not detected in any of the samples (less than 0.10 mg/kg).

6.15.3 Adequacy of Delineation

Hexavalent chromium was not detected in the samples tested from boreholes AOC17-1 or AOC17-2. Therefore, there do not appear to be hexavalent chromium impacts that require additional delineation.

6.15.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with the Building 88 seepage pits represent a potential ongoing or future source of hexavalent chromium in soil or to groundwater.

6.16 AOC 18 – PLANT B-6 BUILDING 83 CLARIFIER, SUMPS, AND SAND TRAPS

The former Building 83 clarifier is located in an asphalt-paved lot currently used for storage of trucks. The former Building 83 sumps and sand traps are located on Bob Hope Airport property to the south, and are overlain by dirt with sparse native vegetation.

6.16.1 Geology and Hydrogeology within AOC 18

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 18 is underlain by silty sand from 0 to 10 feet bgs, and interbedded sand and sand with gravel and cobbles from 10 to at least 100 feet bgs, as presented on Figure 26. There are scattered, thin, fine-grained silty sand interbeds within the sand, but the boring logs indicate that fine-grained units are not extensive or continuous. In April 2014, the depth to groundwater beneath AOC 18 was approximately 230 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is located in the central portion of former Plant B-6 outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figure 7.

6.16.2 Results of the Current Investigation

One boring, AOC18-1, was advanced in the vicinity of the clarifier, one boring, AOC18-2, was advanced in the vicinity of the sump and Sand Trap 2, and one boring, AOC18-3, was advanced in the vicinity of the former sump and Sand Trap 3. All borings were advanced to a depth of 100 feet bgs. The locations of the borings are shown on Figures 9 and 26. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations

ranging from 2.10 to 11.2 mg/kg in boring AOC18-1, from 2.14 to 12.7 mg/kg in boring AOC18-2, and from 2.57 to 10.1 mg/kg in boring AOC18-3. Hexavalent chromium was not detected in any of the samples (less than 0.10 mg/kg).

6.16.3 Adequacy of Delineation

Hexavalent chromium was not detected in any historic or contemporary borings. Therefore, there do not appear to be hexavalent chromium impacts that require additional delineation.

6.16.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with the Building 83 clarifier, sumps, and sand traps represent a potential ongoing or future source of hexavalent chromium in soil or to groundwater.

6.17 AOC 19 – PLANT B-6 BUILDING 82 METAL FINISHING PROCESS LINE, SUMP, SAND TRAP, AND PITS

The former Building 82 metal finishing process line area is located in a lot currently used for storage of trucks. The location of the former features (which include a former metal processing line, a sand trap, a sump, and pits) is currently overlain by an asphalt-paved parking lot.

6.17.1 Geology and Hydrogeology within AOC 19

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 19 is underlain interbedded sand and sand with gravel and cobbles to at least 100 feet bgs, as presented on Figure 27. There are be scattered, thin, fine-grained silty sand interbeds within the sand, but the boring logs indicate that fine-grained units are not extensive or continuous. In April 2014, the depth to groundwater beneath AOC 19 was approximately 235 feet, as mapped by Tetra Tech (Tetra Tech, 2014b) and shown on Figure 3. This AOC is located in the central portion of former Plant B-6 outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figure 7.

6.17.2 Results of the Current Investigation

One boring, AOC19-1, was advanced in the vicinity of former Sand Trap 1 to a depth of 100 feet bgs, and one boring, AOC19-2, was advanced in the vicinity of the former sump and the metal finishing line/Pit 2 to a depth of 100 feet bgs. The locations of the borings are shown on

Figures 9 and 27. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 2.06 to 8.94 mg/kg in boring AOC19-1, and from 3.13 to 111 mg/kg in boring AOC19-2. Hexavalent chromium was not detected in any of the samples (less than 0.10 mg/kg).

6.17.3 Adequacy of Delineation

Hexavalent chromium was not detected in the samples tested from boreholes AOC19-1 or AOC19-2. Therefore, there do not appear to be hexavalent chromium impacts that require additional delineation.

6.17.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with the Building 82 metal finishing process line, sump, sand trap, and pits represent a potential ongoing or future source of hexavalent chromium in soil or to groundwater.

6.18 AOC 20 – PLANT C-1 LEACH FIELDS AND BUILDING 50 DRY WELL

The Building 50 dry well are located immediately west of the current Atlantic Aviation building. The two former leach fields are located immediately west and southwest of the current Atlantic Aviation building. The locations of the former features are overlain by a vacant dirt-covered lot and/or concrete within Bob Hope Airport property.

6.18.1 Geology and Hydrogeology within AOC 20

Based on the results of the current investigation and review of boring logs from nearby borings, AOC 20 is underlain by silty sand from 0 to 8 feet bgs and sand from 8 to at least 100 feet bgs, as presented on Figure 28. There are be scattered, thin, fine-grained interbeds of silty sand within the sand, but the boring logs indicate that fine-grained units are not extensive or continuous. In April 2014, the depth to groundwater beneath AOC 20 was approximately 240 feet, as mapped by Tetra Tech (2014b) and shown on Figure 3. This AOC is outside of the 1-µg/L hexavalent chromium groundwater plume contour, as mapped by Tetra Tech (2014b) and shown on Figure 7.

6.18.2 Results of the Current Investigation

One boring, AOC20-1, was advanced in the vicinity of the Building 50 dry well to a depth of 100 feet bgs, and one boring, AOC20-2, was advanced in the vicinity of the former leach field to the southeast of Building 43 to a depth of 100 feet bgs. The locations of the borings are shown on Figures 9 and 28. Soil samples were collected at 5-foot intervals to total depth for logging soil lithology. Total chromium and hexavalent chromium analyses were performed at a rate of one per 10 feet. Total chromium was detected at concentrations ranging from 2.37 to 7.30 mg/kg in boring AOC20-1, and from 2.99 to 10.5 mg/kg in boring AOC20-2. Hexavalent chromium was not detected in any of the samples (less than 0.10 mg/kg).

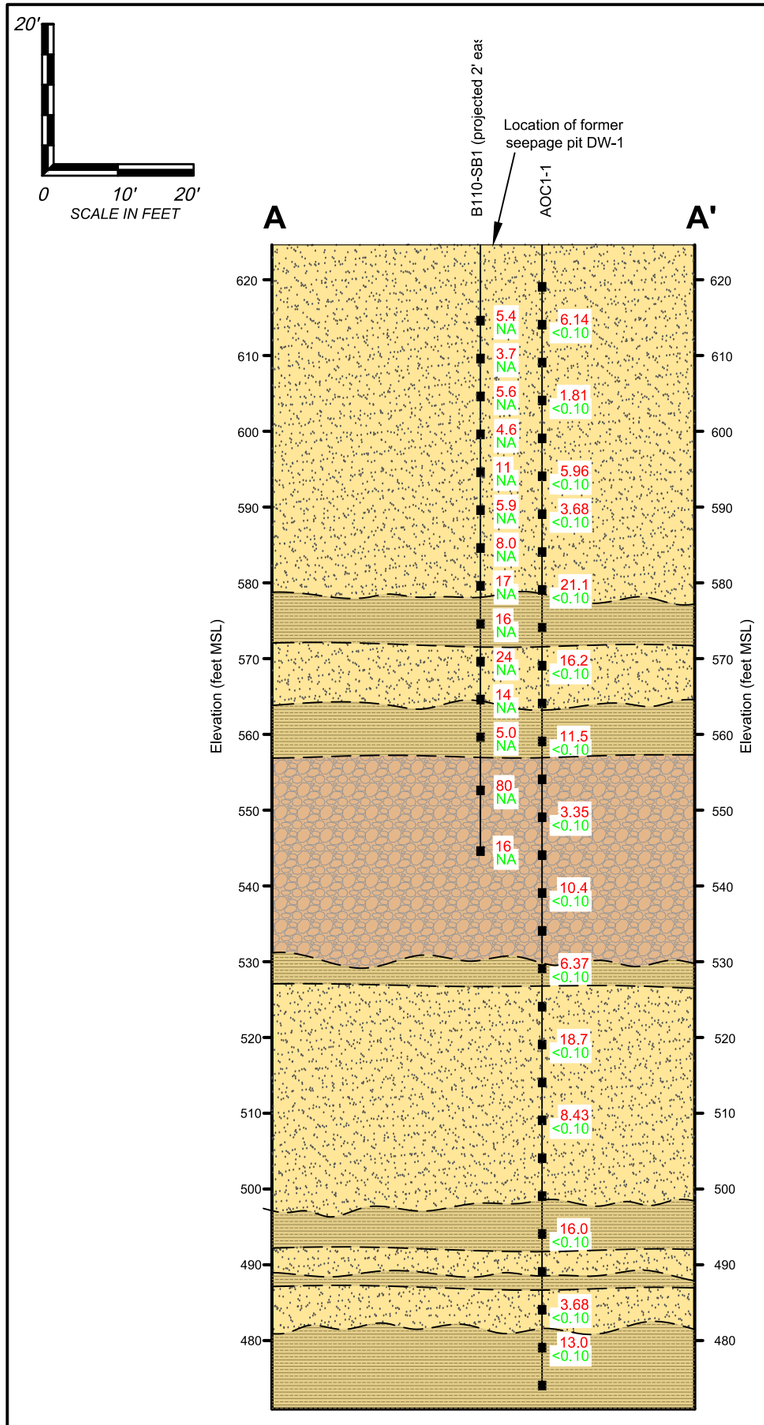
6.18.3 Adequacy of Delineation

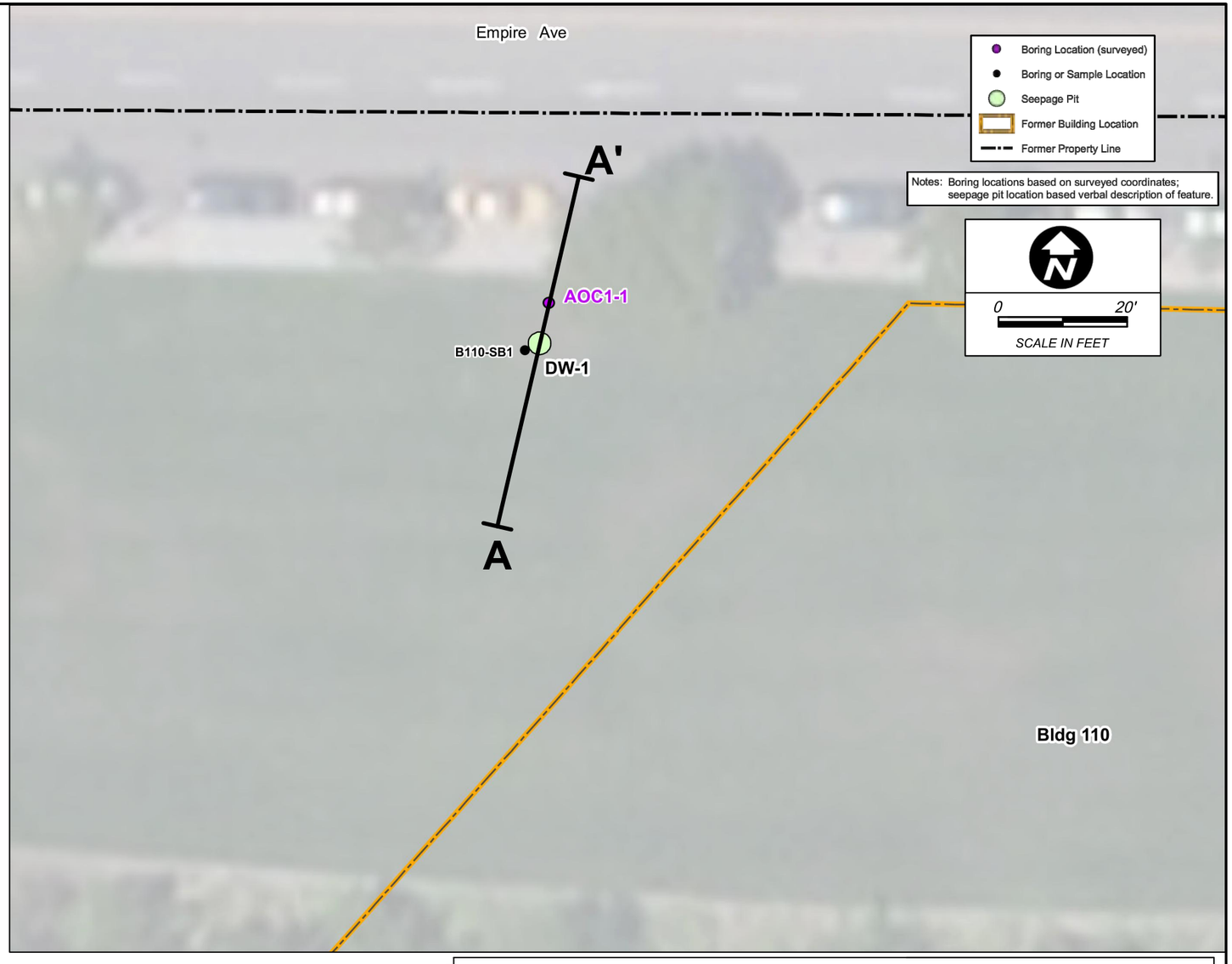
Hexavalent chromium was not detected in any historic or contemporary borings. Therefore, there do not appear to be hexavalent chromium impacts that require additional delineation.

6.18.4 Potential for Impact to Groundwater

Based on site data, there is no evidence that activities associated with the Building 50 dry well and the former leach field represent a potential ongoing or future source of hexavalent chromium in soil or to groundwater.

SECTION 6 FIGURES





LEGEND

- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- Silty sand
- 80 — Chromium concentration (mg/kg)
- <0.10 — Hexavalent chromium concentration (mg/kg; NA = not analyzed)
- Soil sample from a boring

NOTE: Only in-place soil sample resultss are shown

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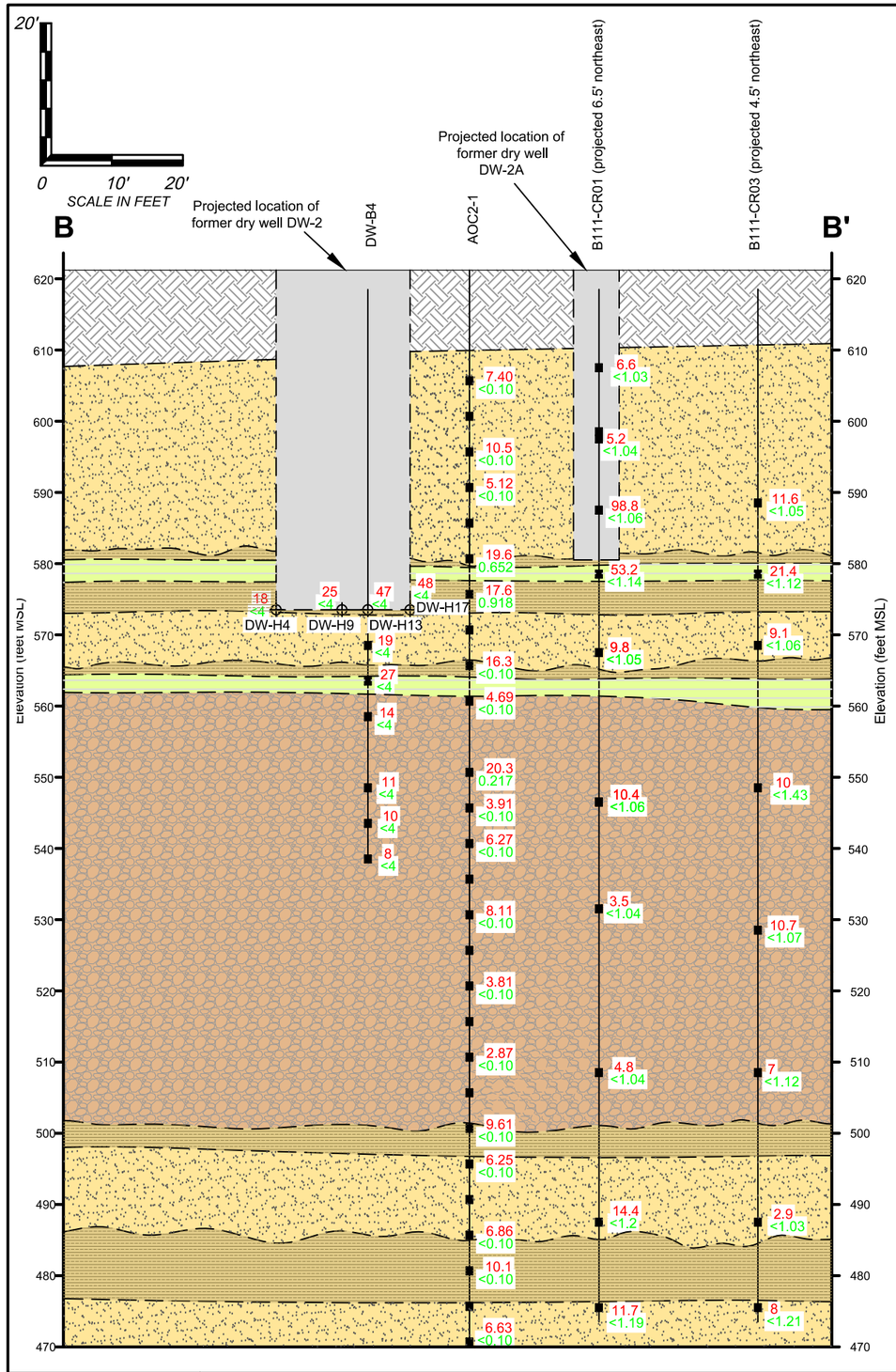
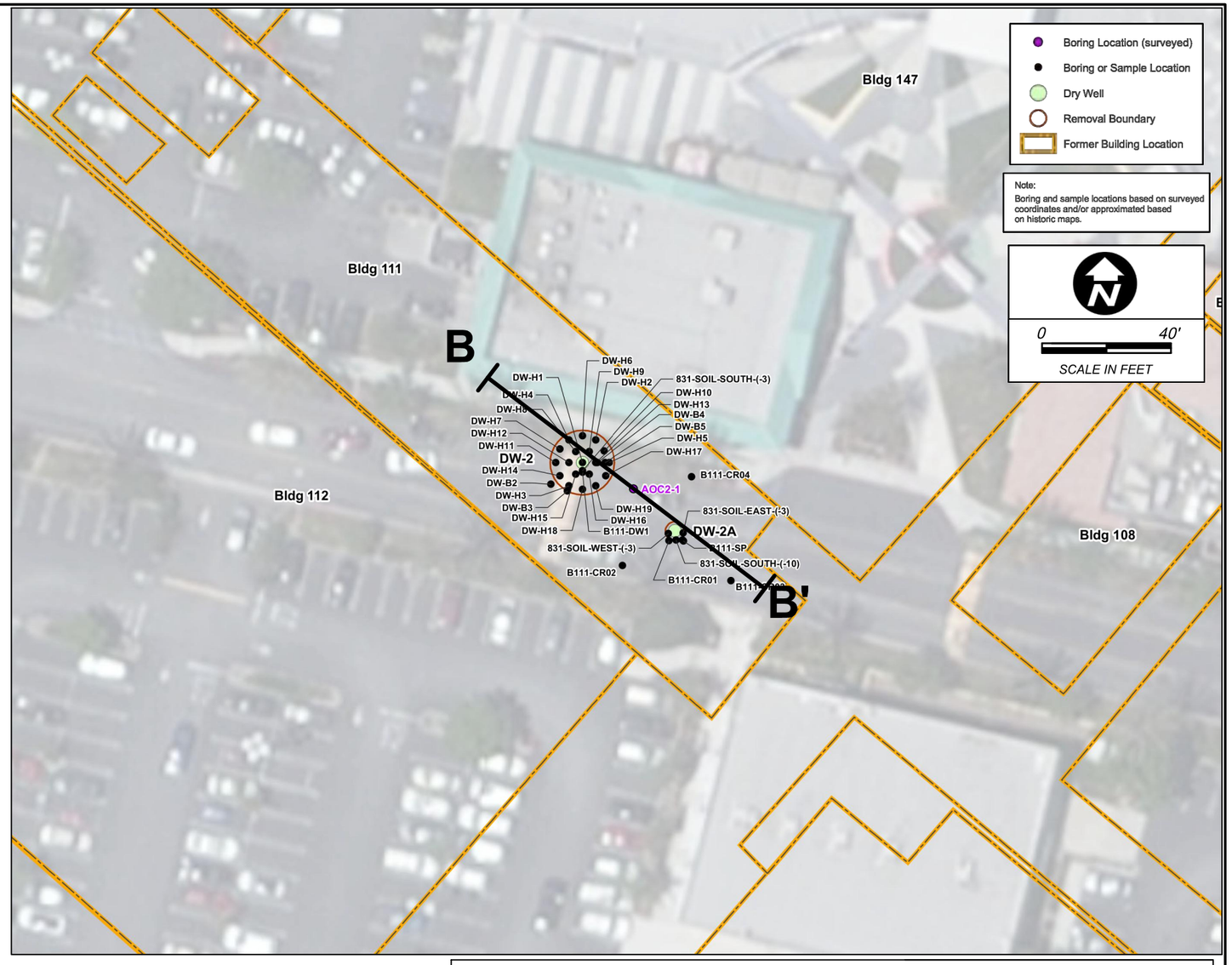
Figure 11
Cross-Section A-A' - AOC 1

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP





LEGEND

- Concrete
- Fill
- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- Silty sand
- Sandy silt

53.2 Chromium concentration (mg/kg)

0.918 Hexavalent chromium concentration (mg/kg)

Soil sample from a boring

Soil sample from an excavation

NOTE: Only in-place soil sample results are shown

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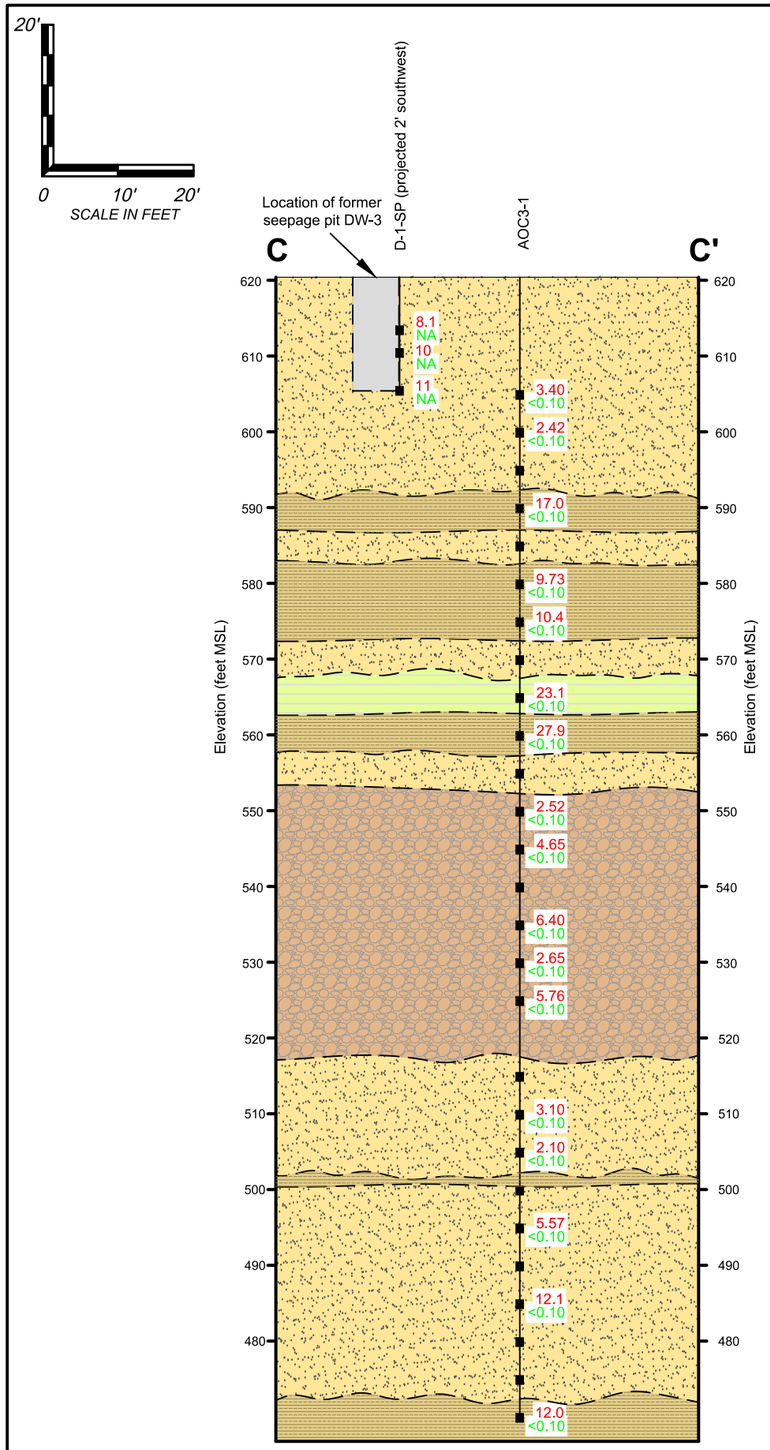
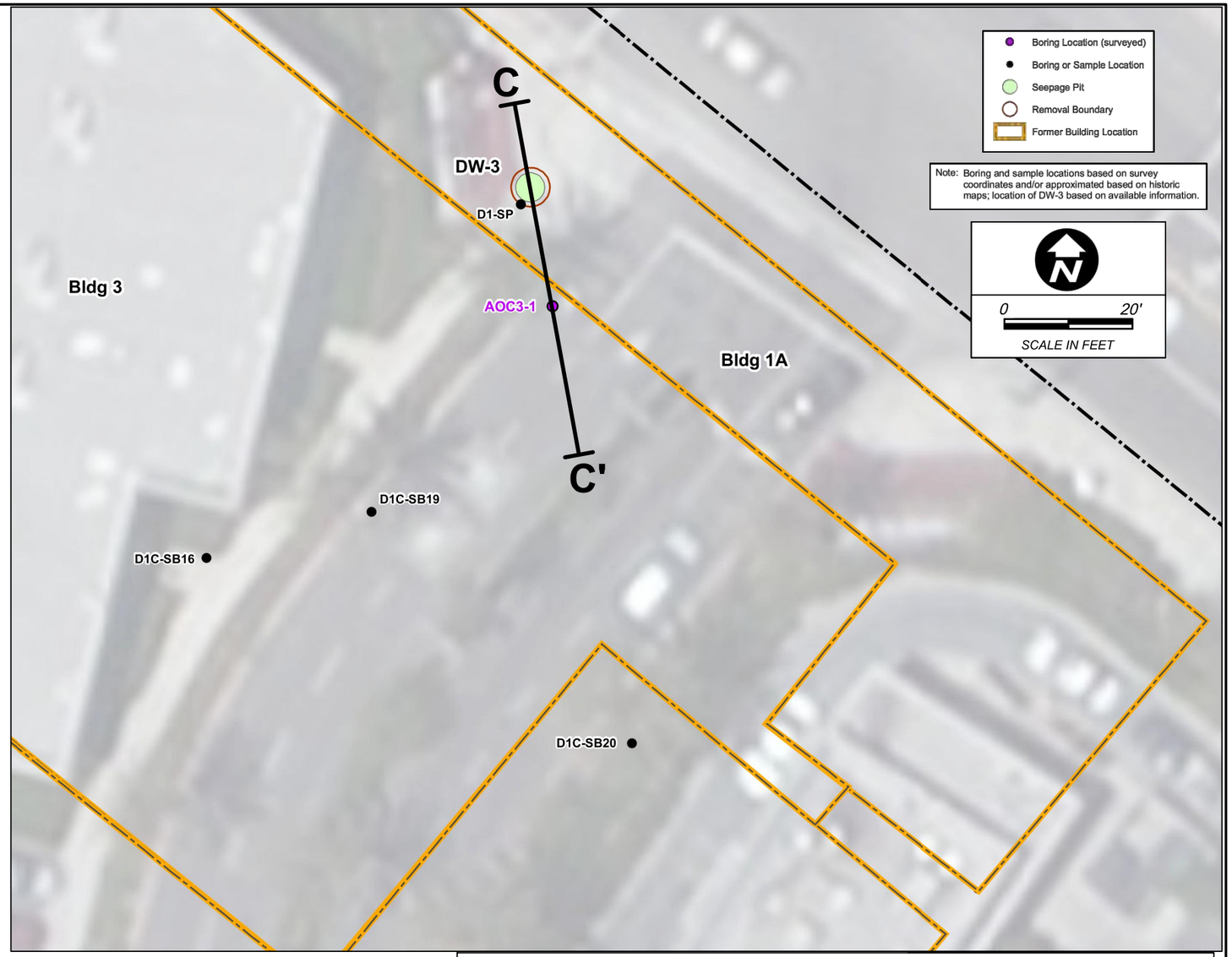
Figure 12
Cross-Section B-B' - AOC 2

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 26955.FP





LEGEND

- Concrete
- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- Silty sand
- Sandy silt

23.1 Chromium concentration (mg/kg)

<0.10 Hexavalent chromium concentration (mg/kg; NA = not analyzed)

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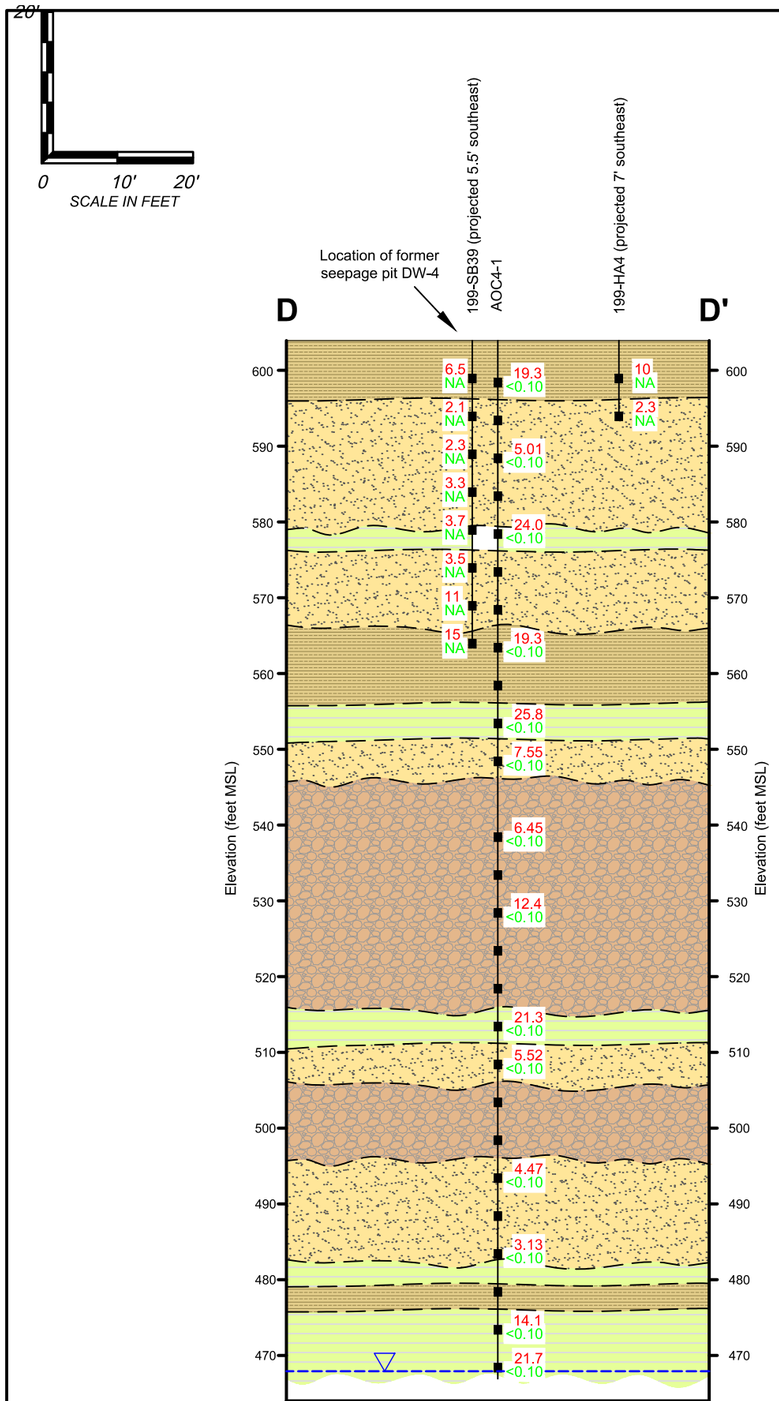
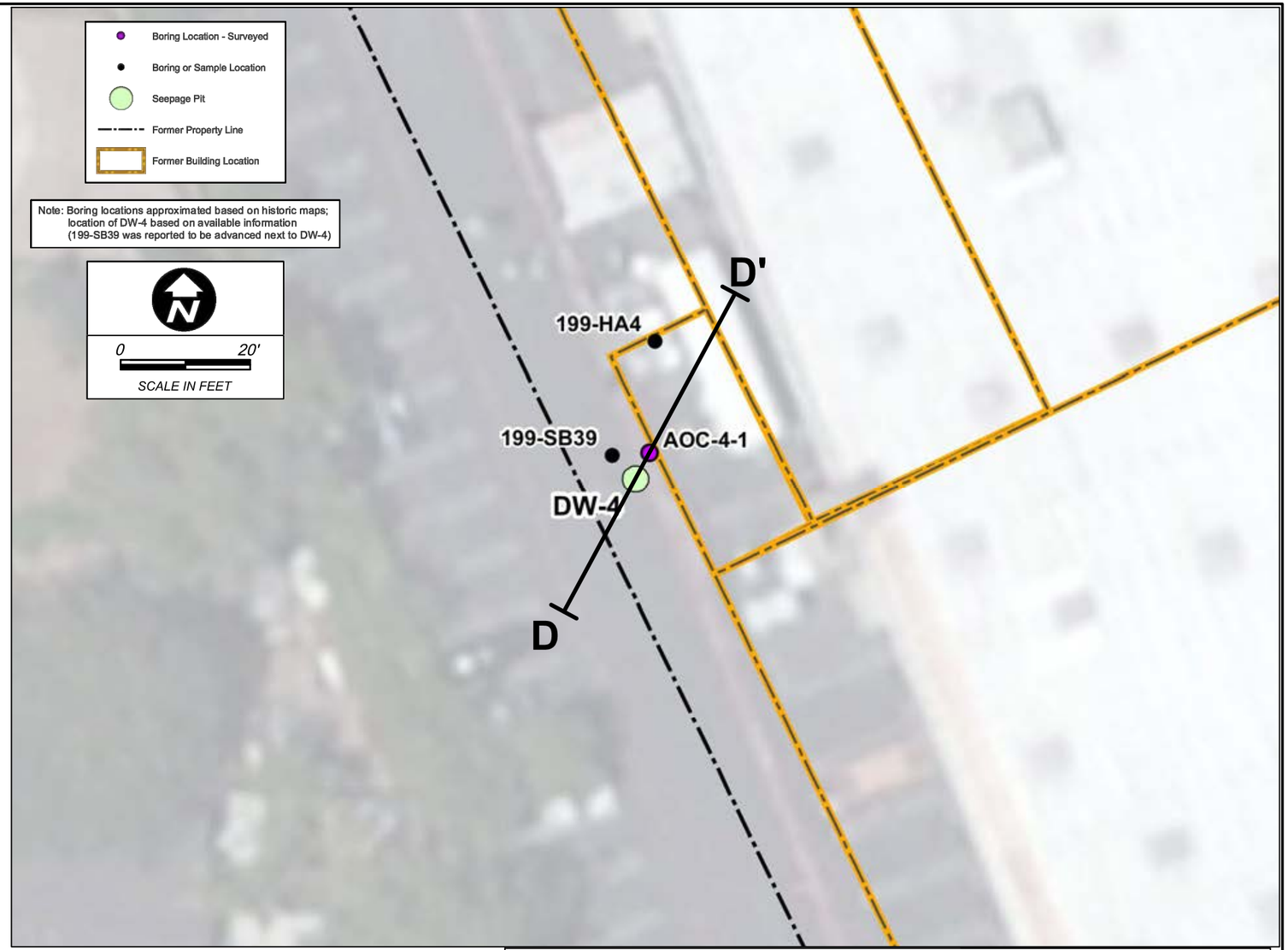
Figure 13
Cross-Section C-C' - AOC 3

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP





LEGEND

- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- Silty sand
- Sandy silt
- Water table

25.8 Chromium concentration (mg/kg)

<0.10 Hexavalent chromium concentration (mg/kg; NA = not analyzed)

NOTE: Only in-place soil sample results are shown

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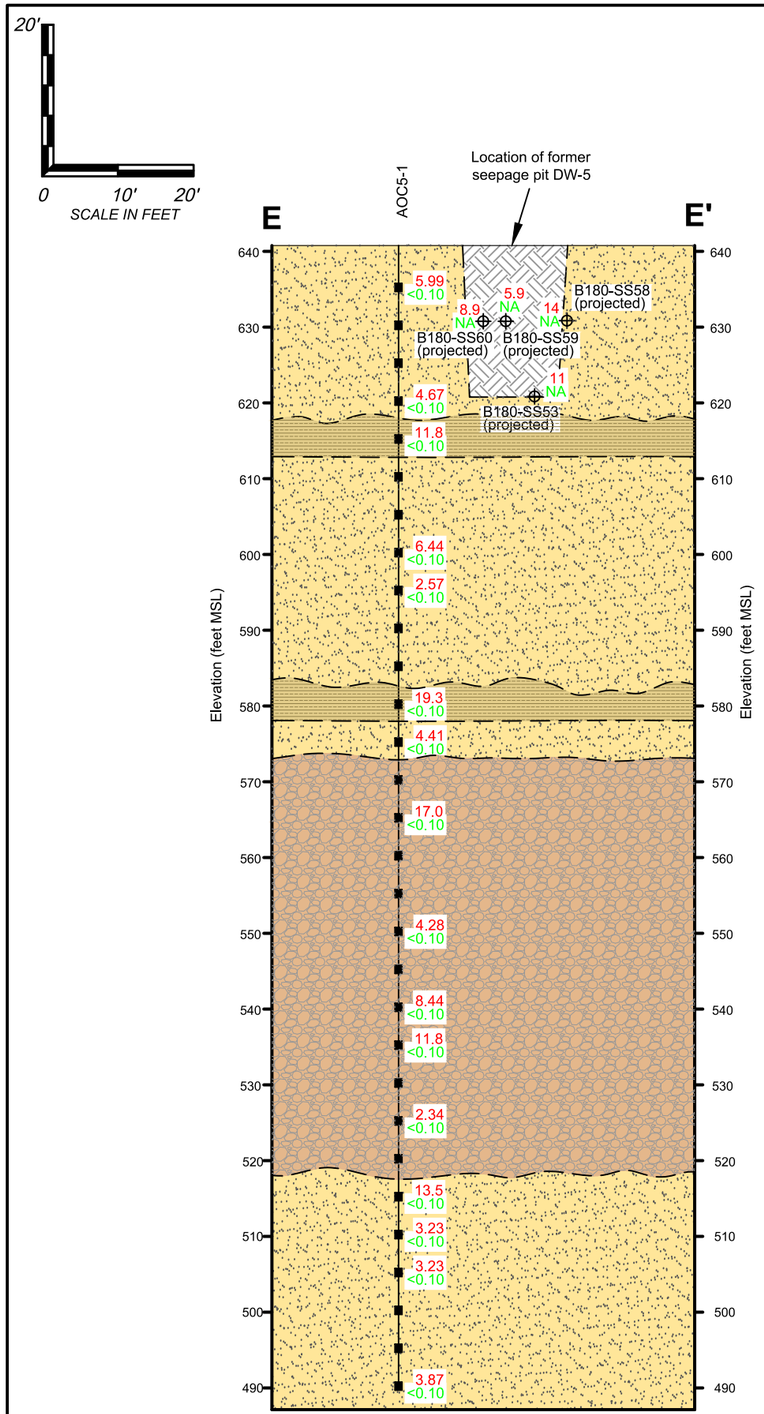
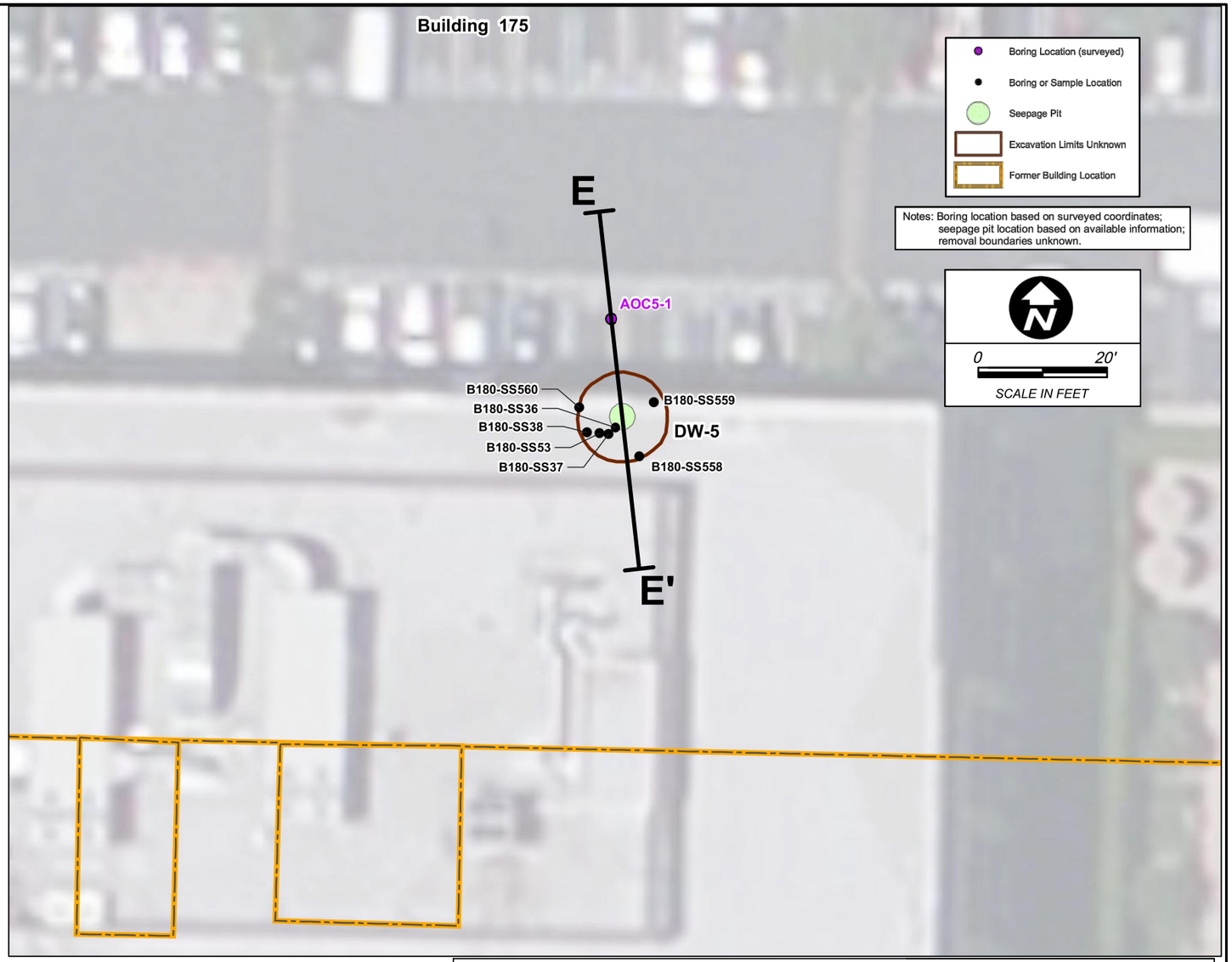
Figure 14
Cross-Section D-D' - AOC 4

DATE December 2014
SCALE As Shown
PROJECT NUMBER 32955.FP





LEGEND

Fill	19.3 Chromium concentration (mg/kg)
Sand with gravel/cobbles to sandy gravel	<0.10 Hexavalent chromium concentration (mg/kg; NA = not analyzed)
Poorly graded to well graded sand with varying amount of silt and gravel	Soil sample from a boring
Silty sand	Soil sample from an excavation

NOTE: Only in-place soil sample results are shown

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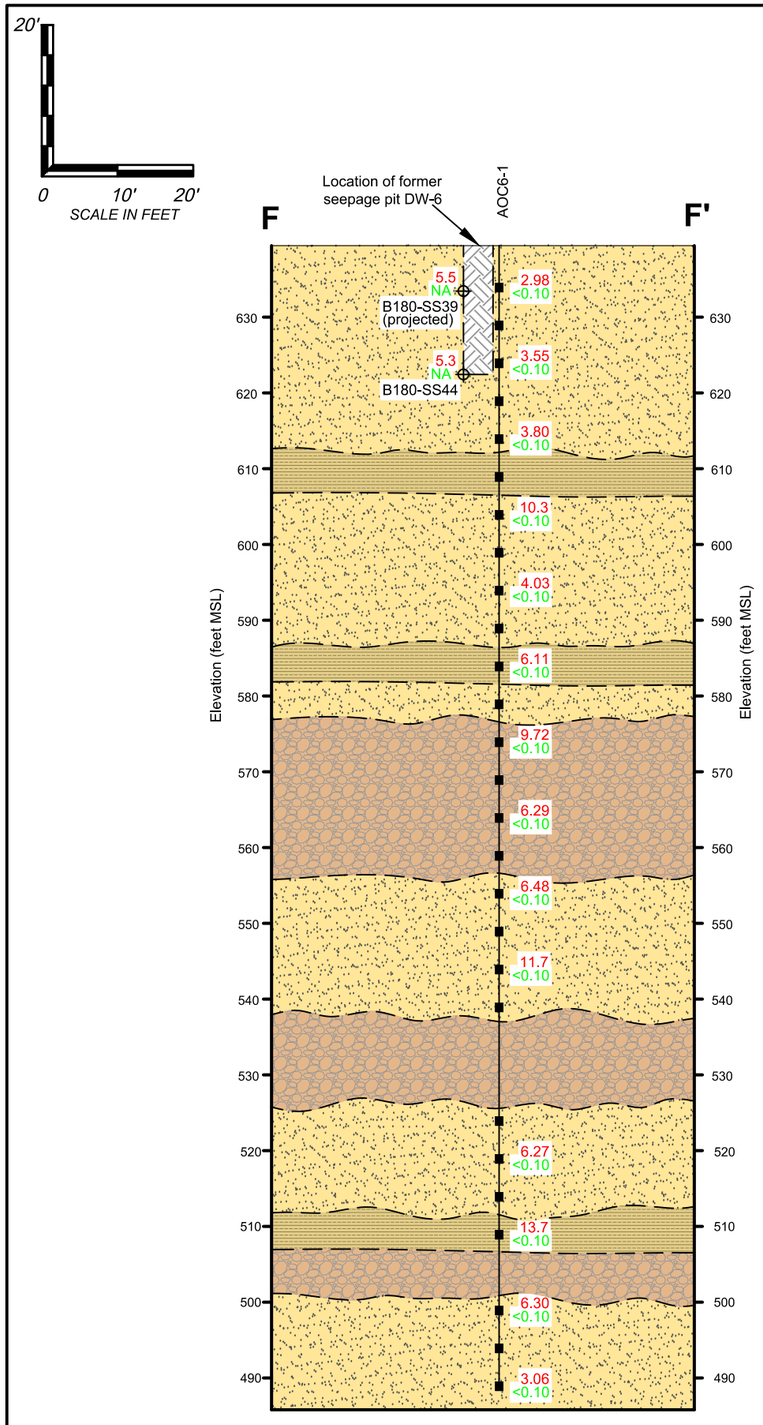
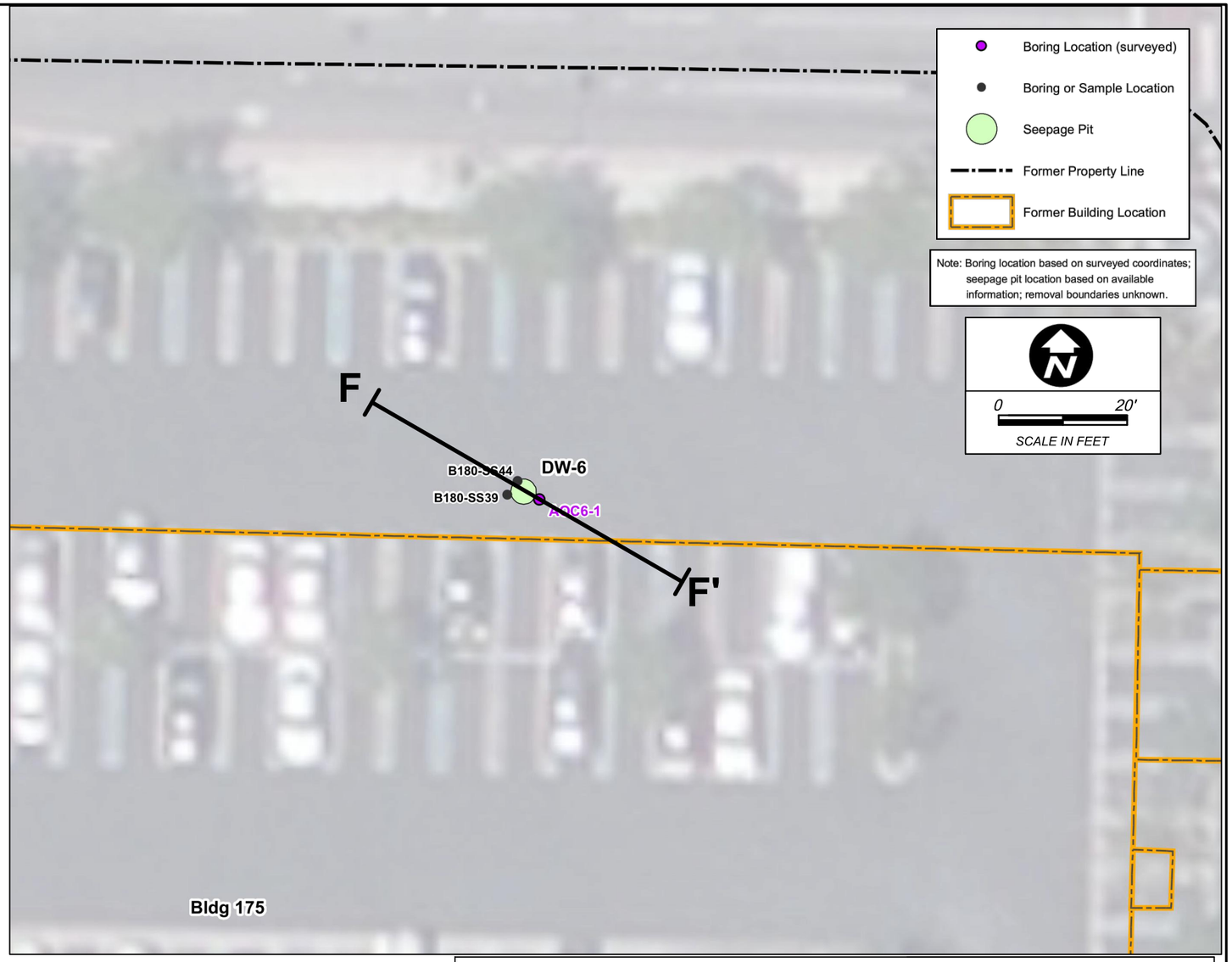
Figure 15
Cross-Section E-E' - AOC 5

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP





LEGEND

- Fill
- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- Silty sand
- 13.7 — Chromium concentration (mg/kg)
- <0.10 — Hexavalent chromium concentration (mg/kg; NA = not analyzed)
- Soil sample from a boring
- Soil sample from an excavation

NOTE: Only in-place soil sample results are shown

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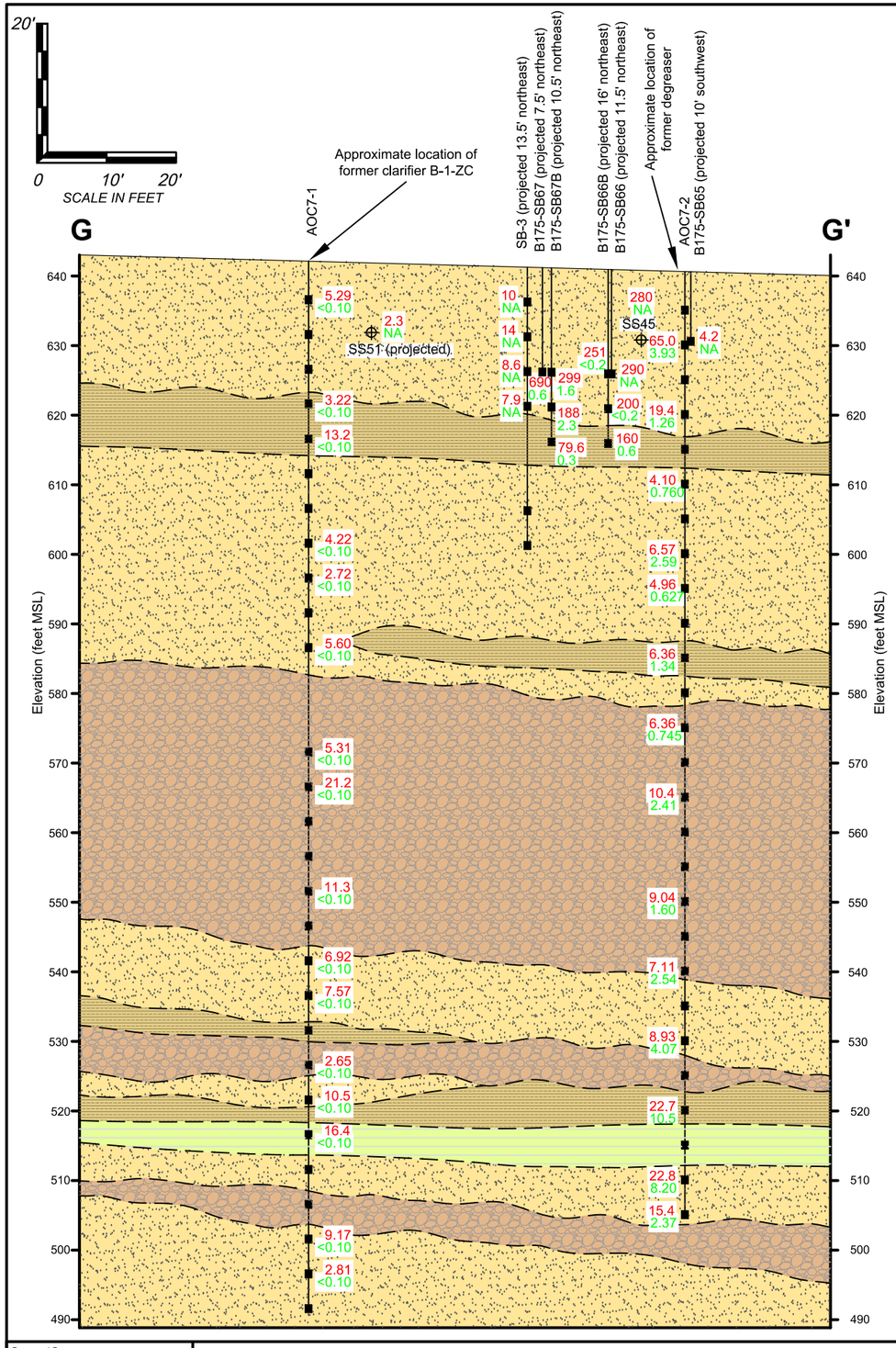
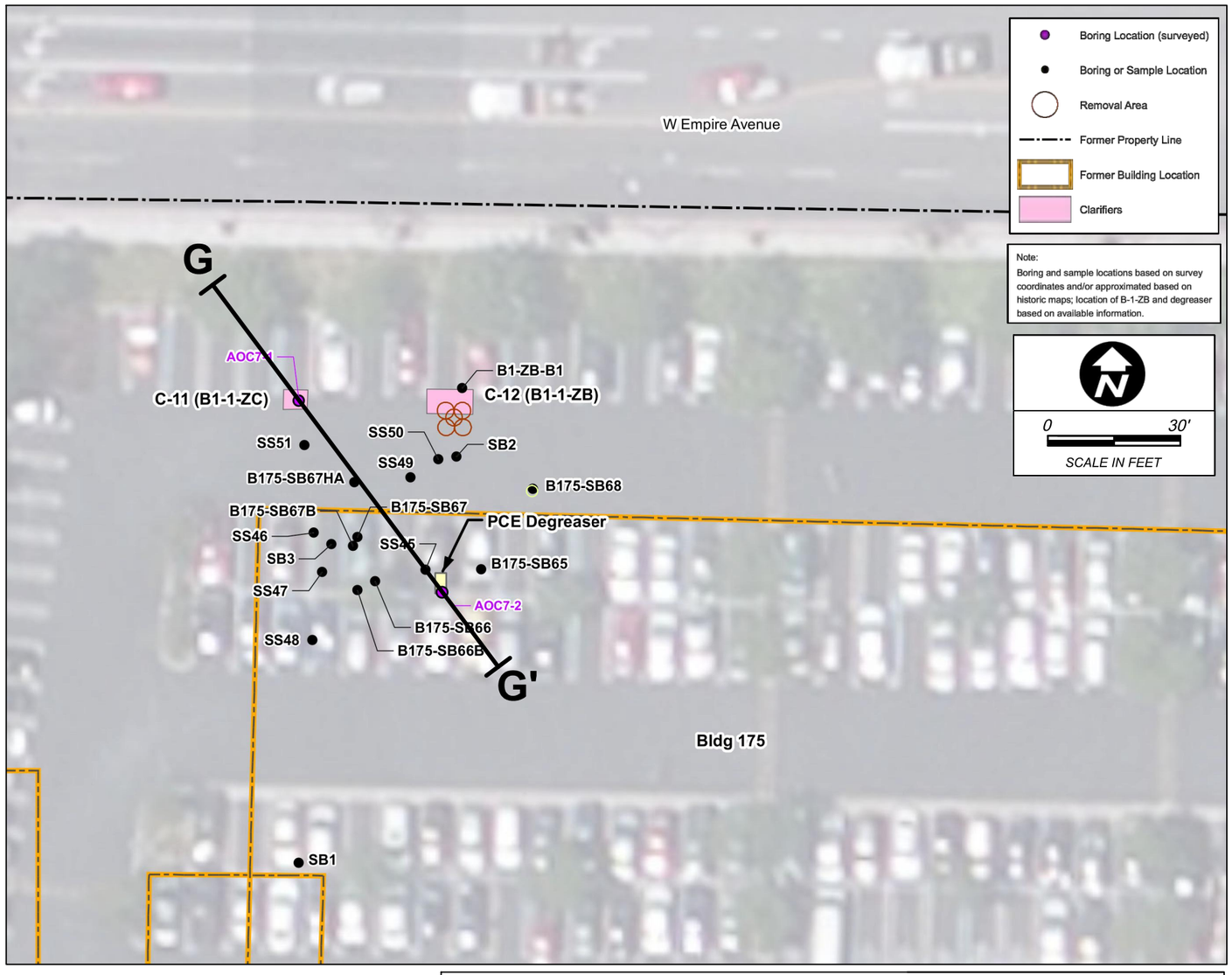
Figure 16
Cross-Section F-F' - AOC 6

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP





LEGEND

- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- Silty sand
- Sandy silt
- 690 — Chromium concentration (mg/kg)
- 10.5 — Hexavalent chromium concentration (mg/kg; NA = not analyzed)
- Soil sample from a boring
- Soil sample from an excavation

NOTE: Only in-place soil sample results are shown

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Figure 17
Cross-Section G-G' - AOC 7

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP

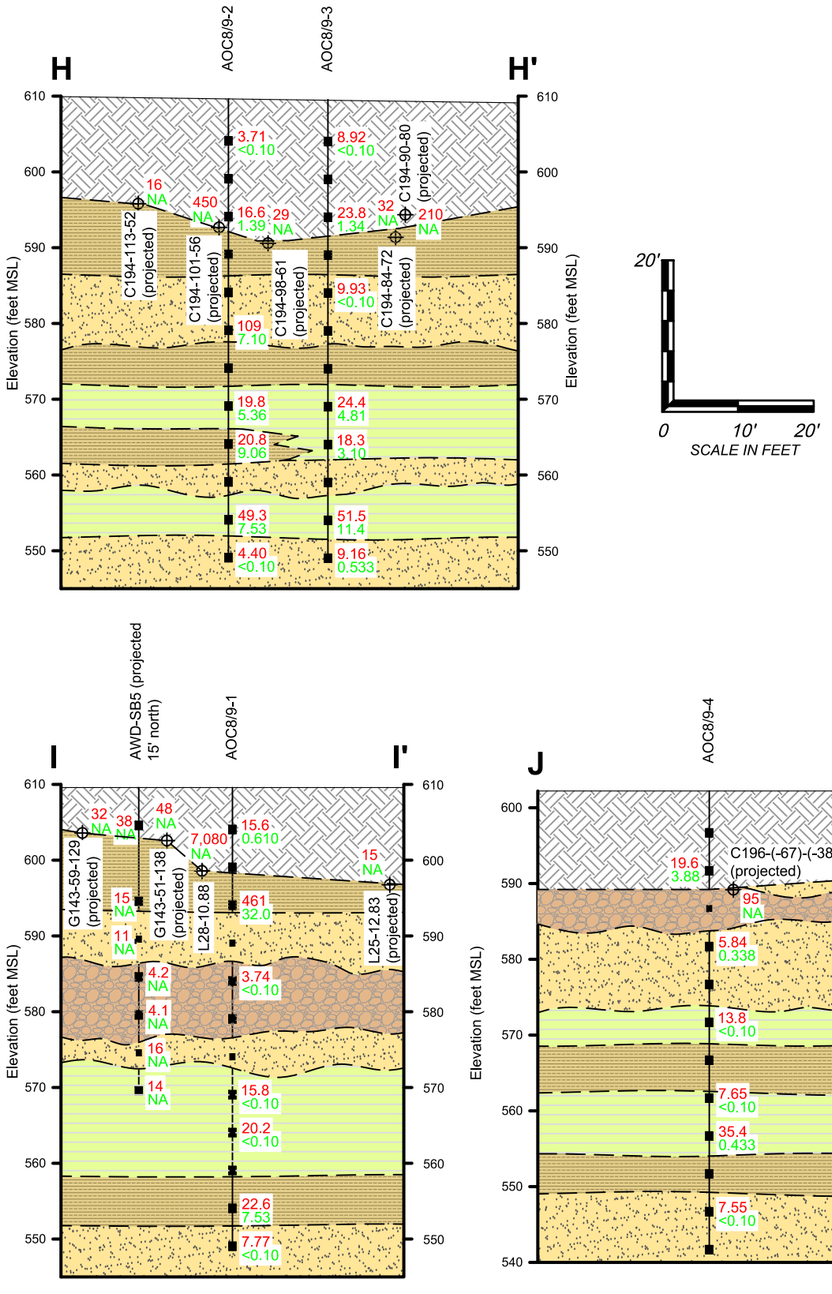

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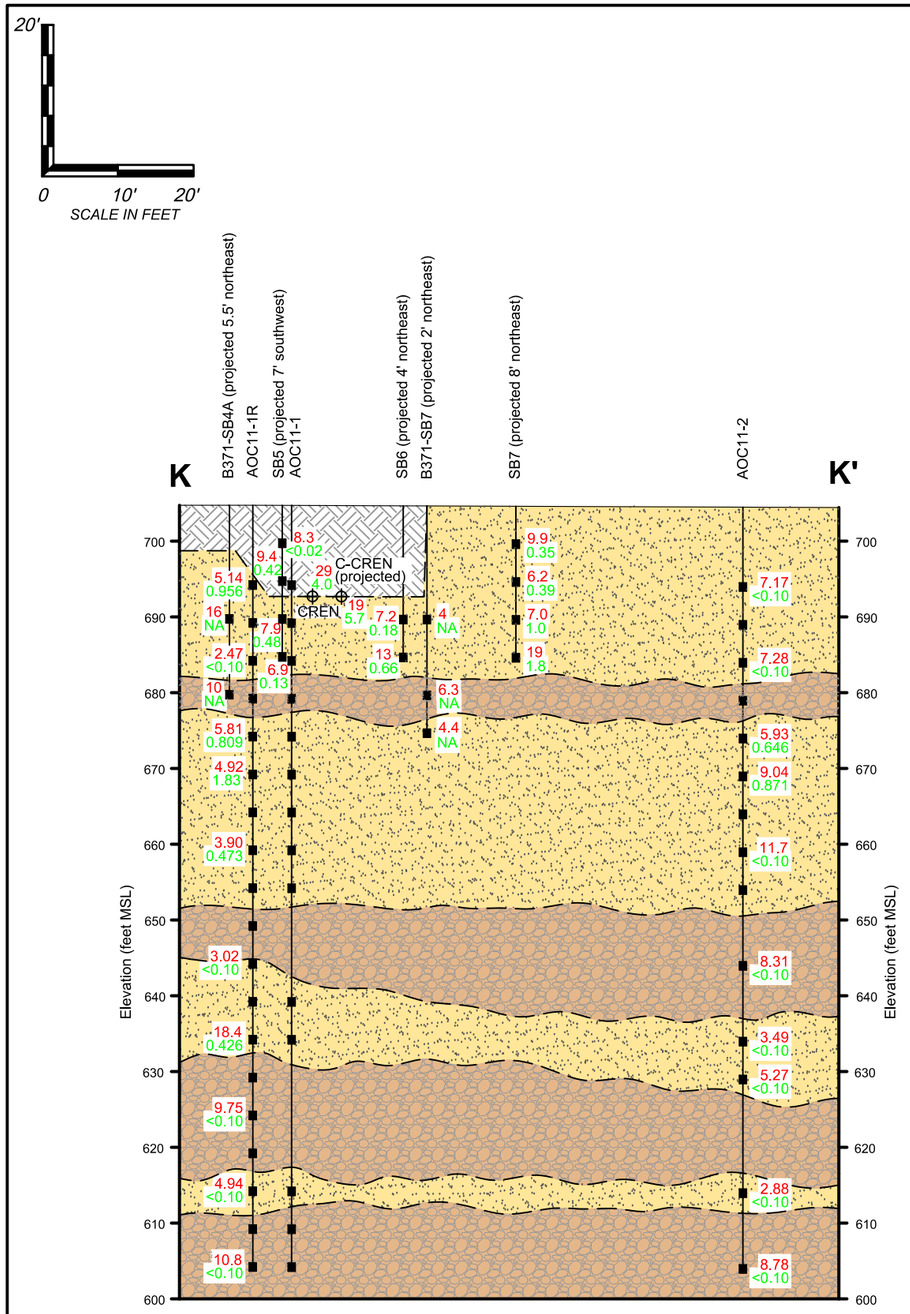
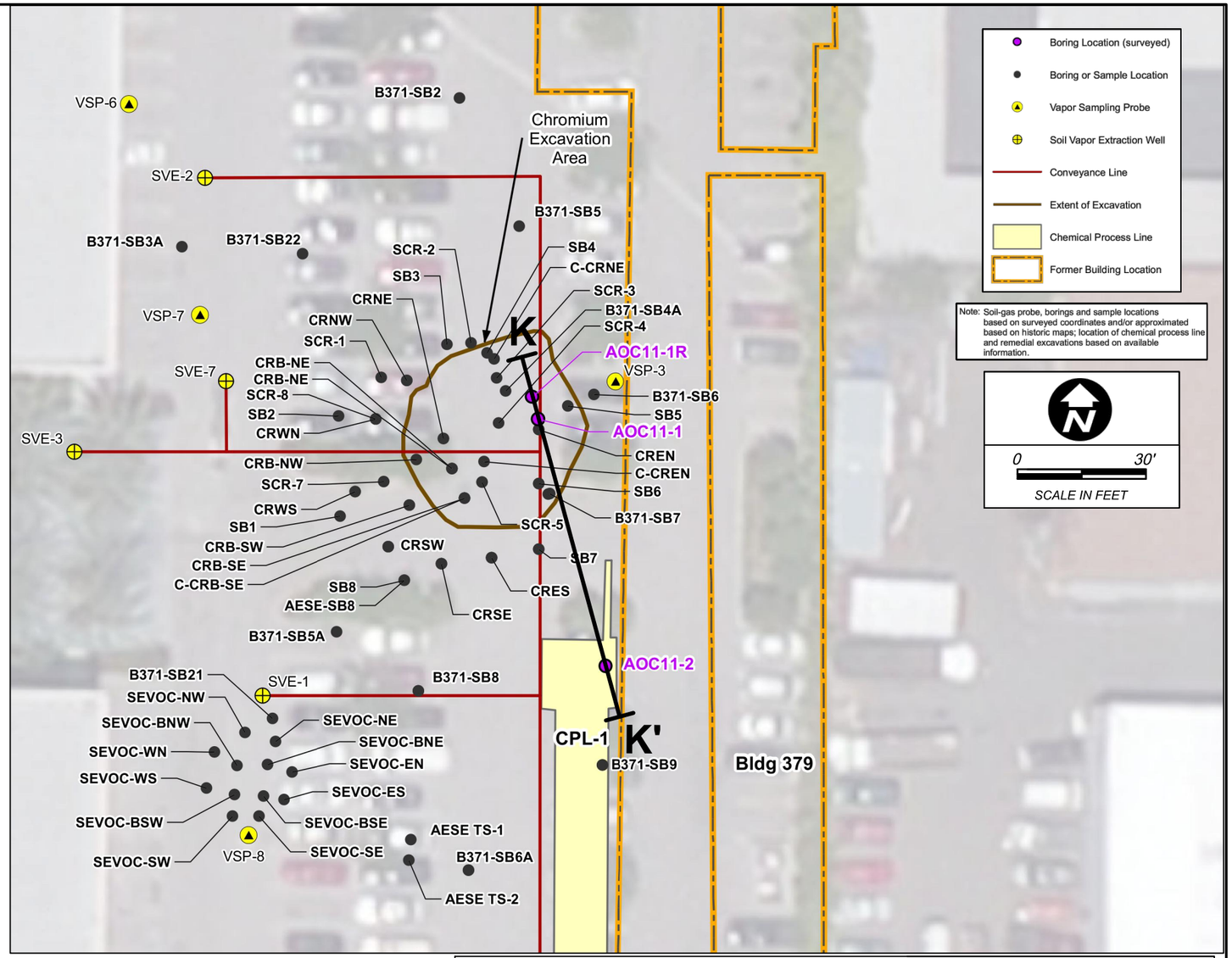
Figure 18
Cross-Section H-H', I-I', and J-J' - AOC 8 and 9

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP





LEGEND

- Fill
- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- 29 — Chromium concentration (mg/kg)
- 5.7 — Hexavalent chromium concentration (mg/kg; NA = not analyzed)
- Soil sample from a boring
- Soil sample from an excavation

NOTE: Only in-place soil sample results are shown

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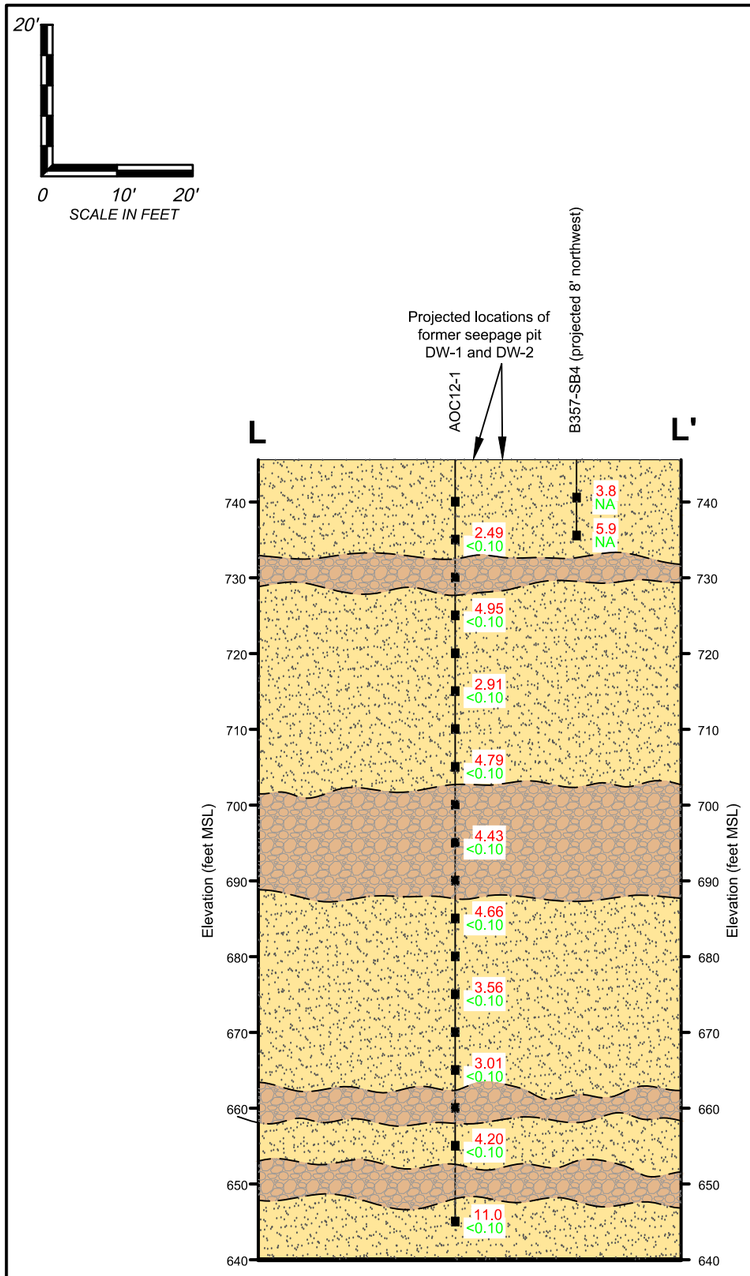
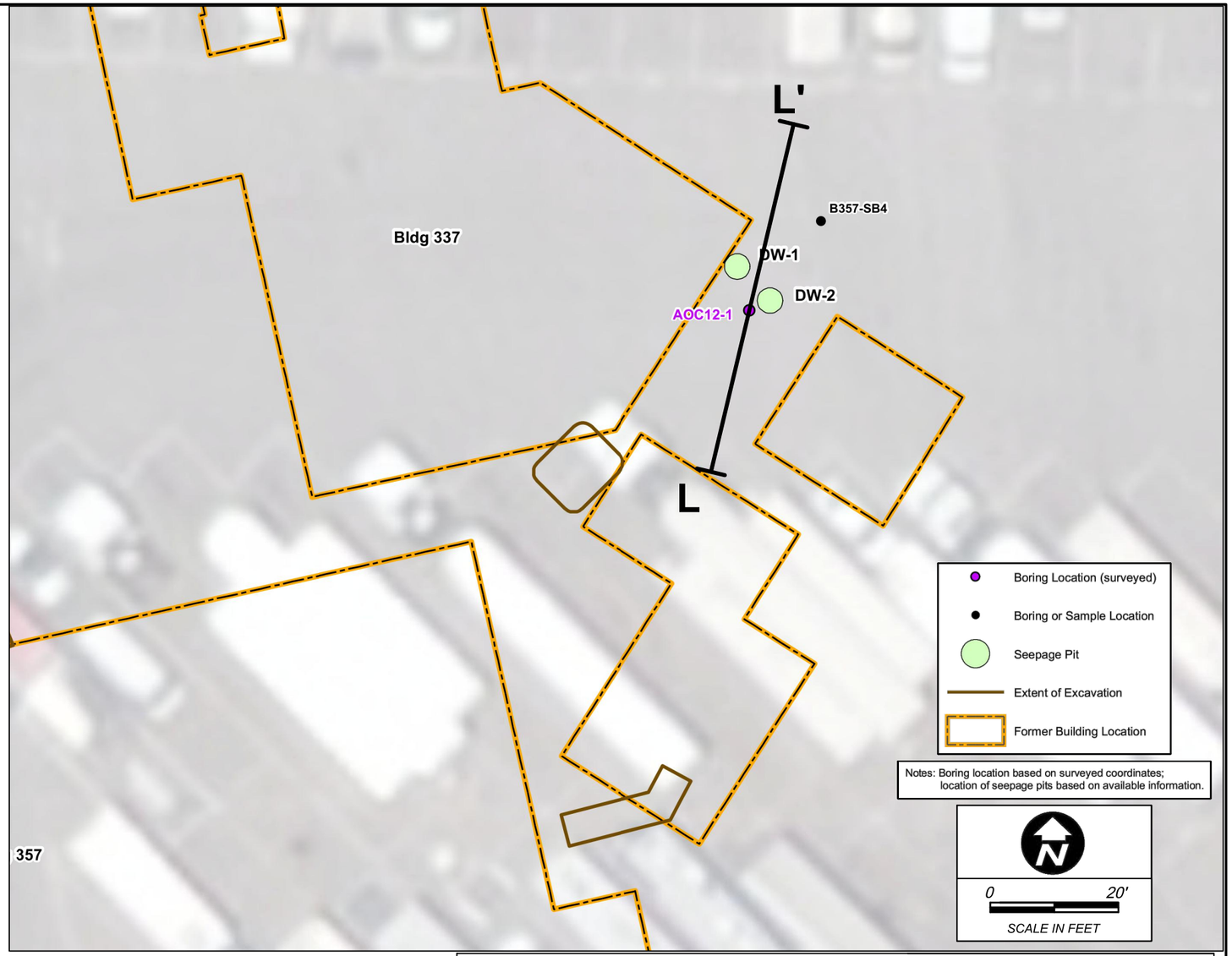
Figure 19
Cross-Section K-K' - AOC 11

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP





LEGEND

- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- 11.0 Chromium concentration (mg/kg)
- <0.10 Hexavalent chromium concentration (mg/kg; NA = not analyzed)
- Soil sample from a boring

NOTE: Only in-place soil sample results are shown

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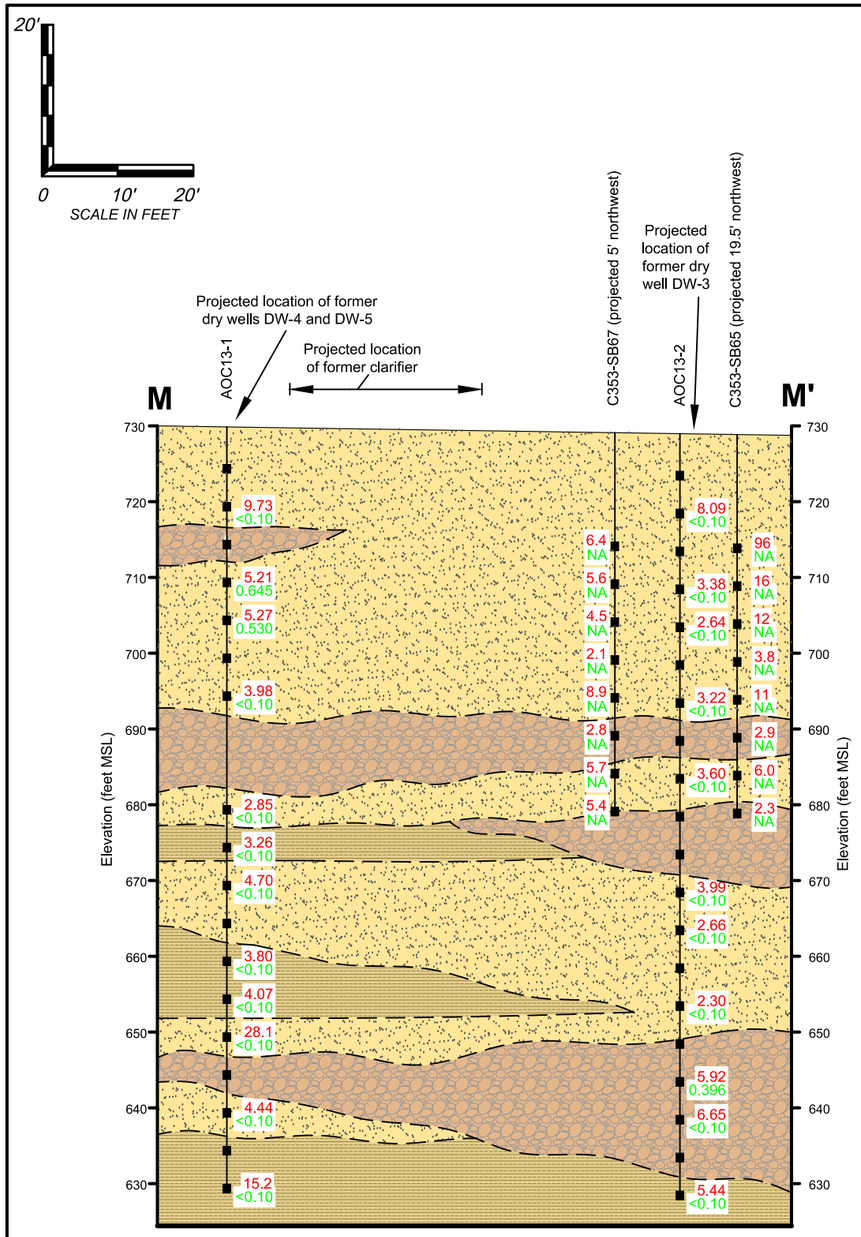
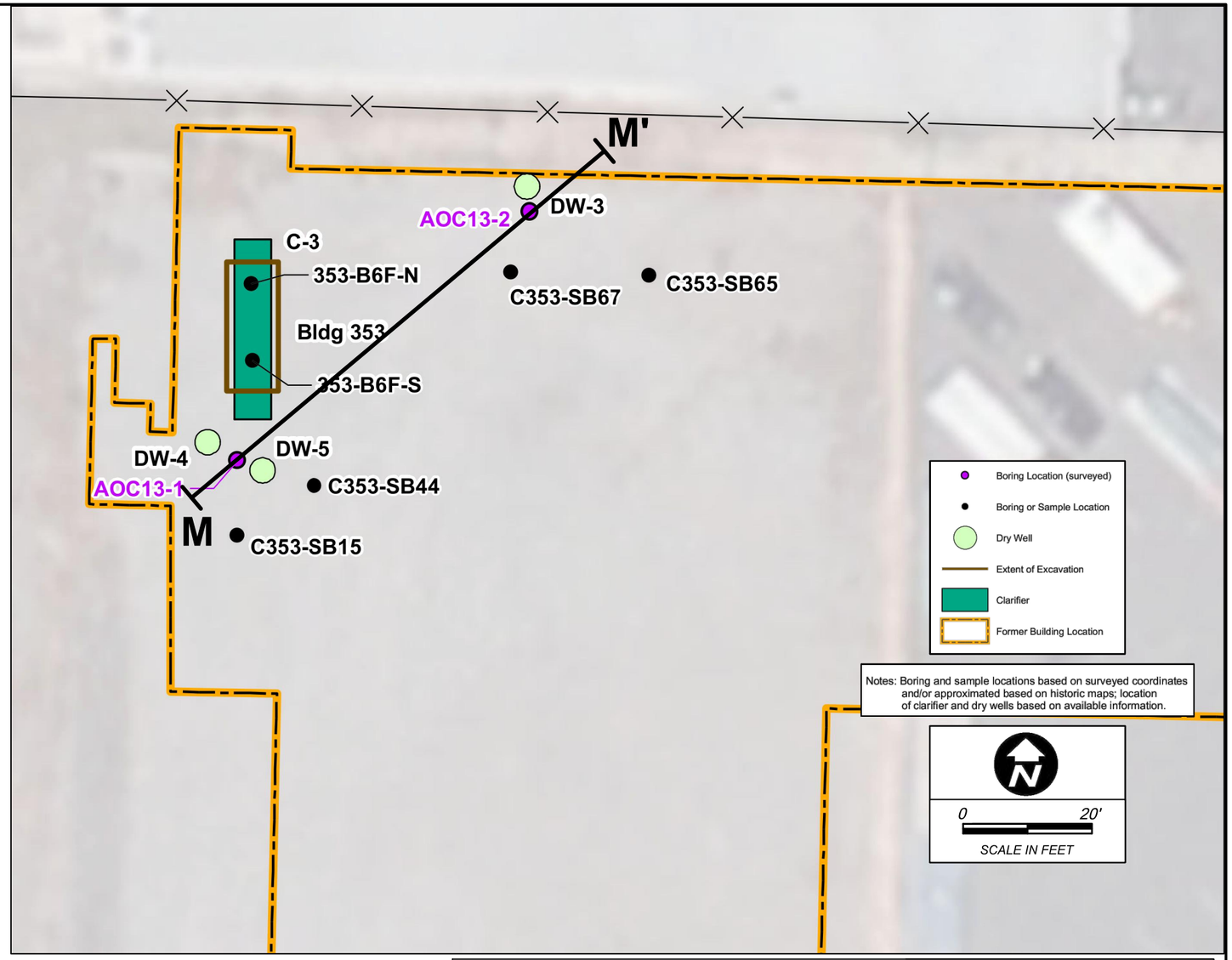
Figure 20
Cross-Section L-L' - AOC 12

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP





LEGEND

- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- Silty sand
- 28.1 Chromium concentration (mg/kg)
- 0.645 Hexavalent chromium concentration (mg/kg; NA = not analyzed)
- Soil sample from a boring

NOTE: Only in-place soil sample results are shown

Prepared By:
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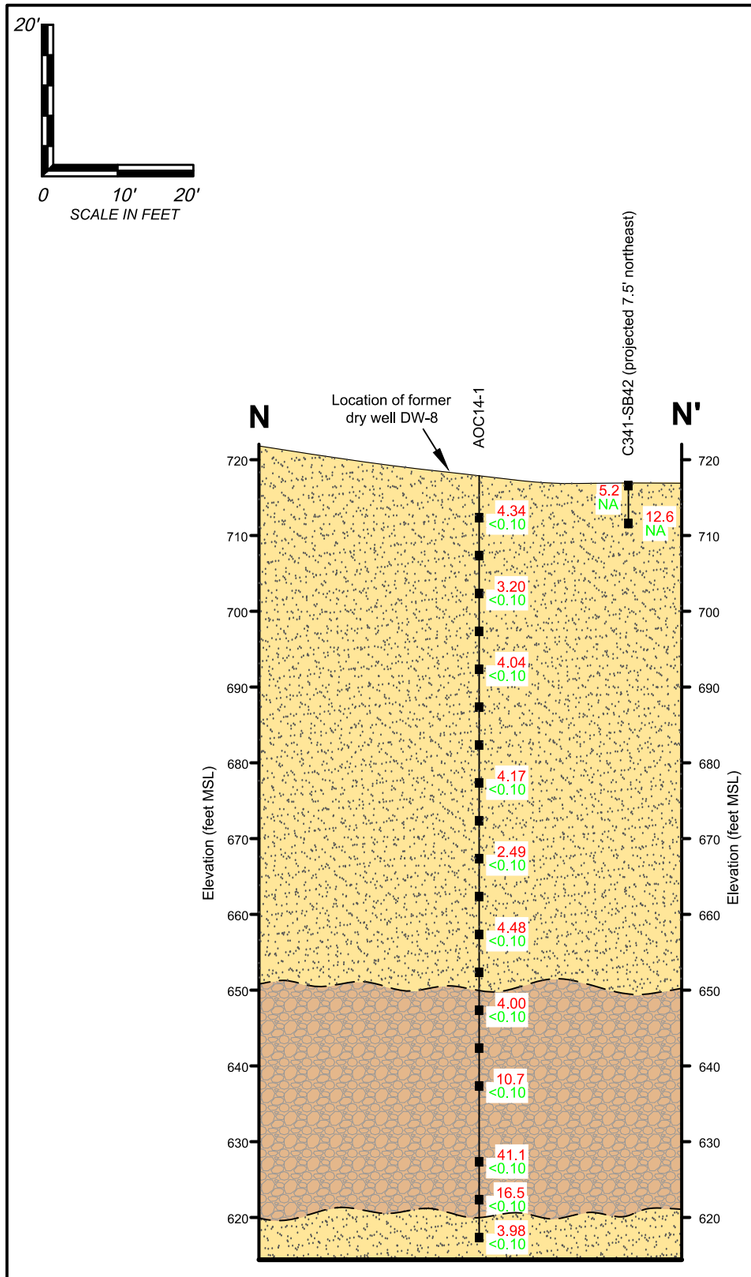
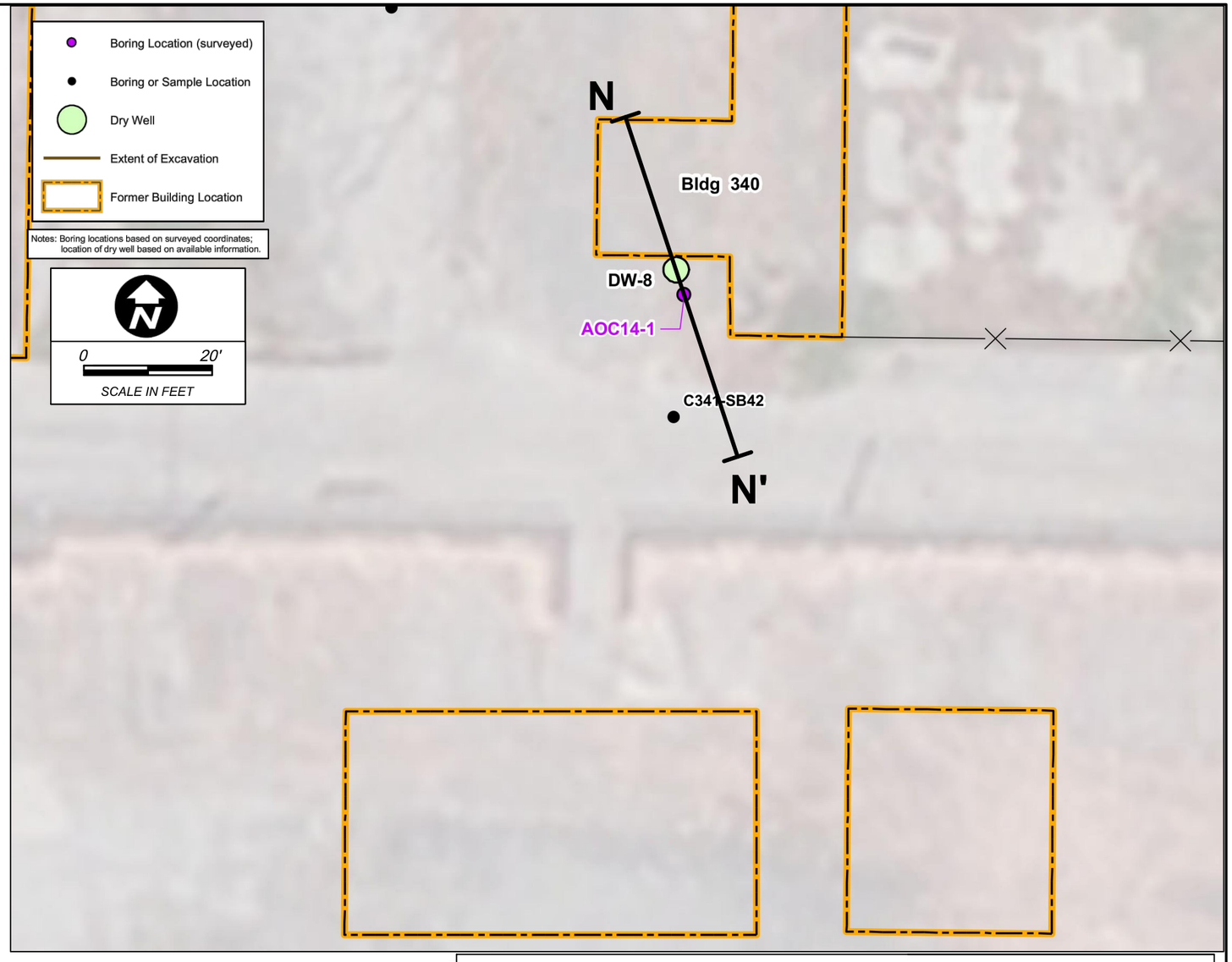
Figure 21
Cross-Section M-M' - AOC 13

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP





LEGEND

- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- 41.1 Chromium concentration (mg/kg)
- <0.10 Hexavalent chromium concentration (mg/kg; NA = not analyzed)
- Soil sample from a boring

NOTE: Only in-place soil sample results are shown

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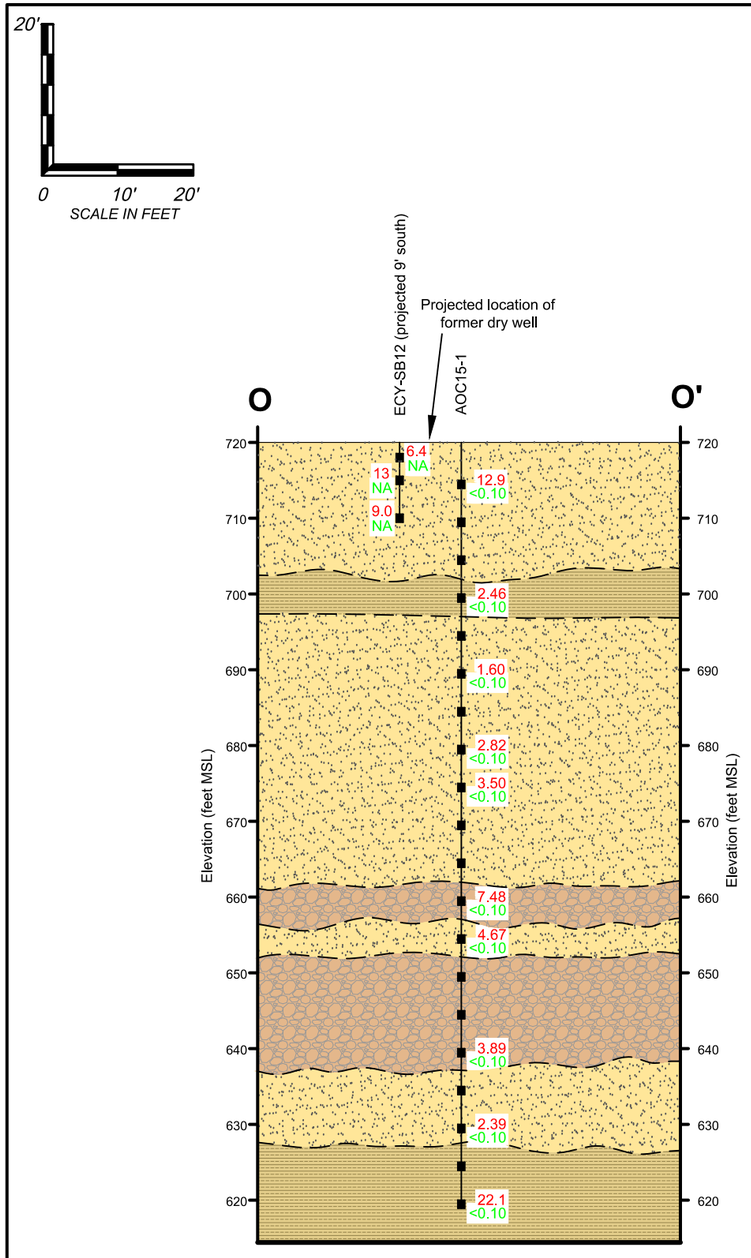
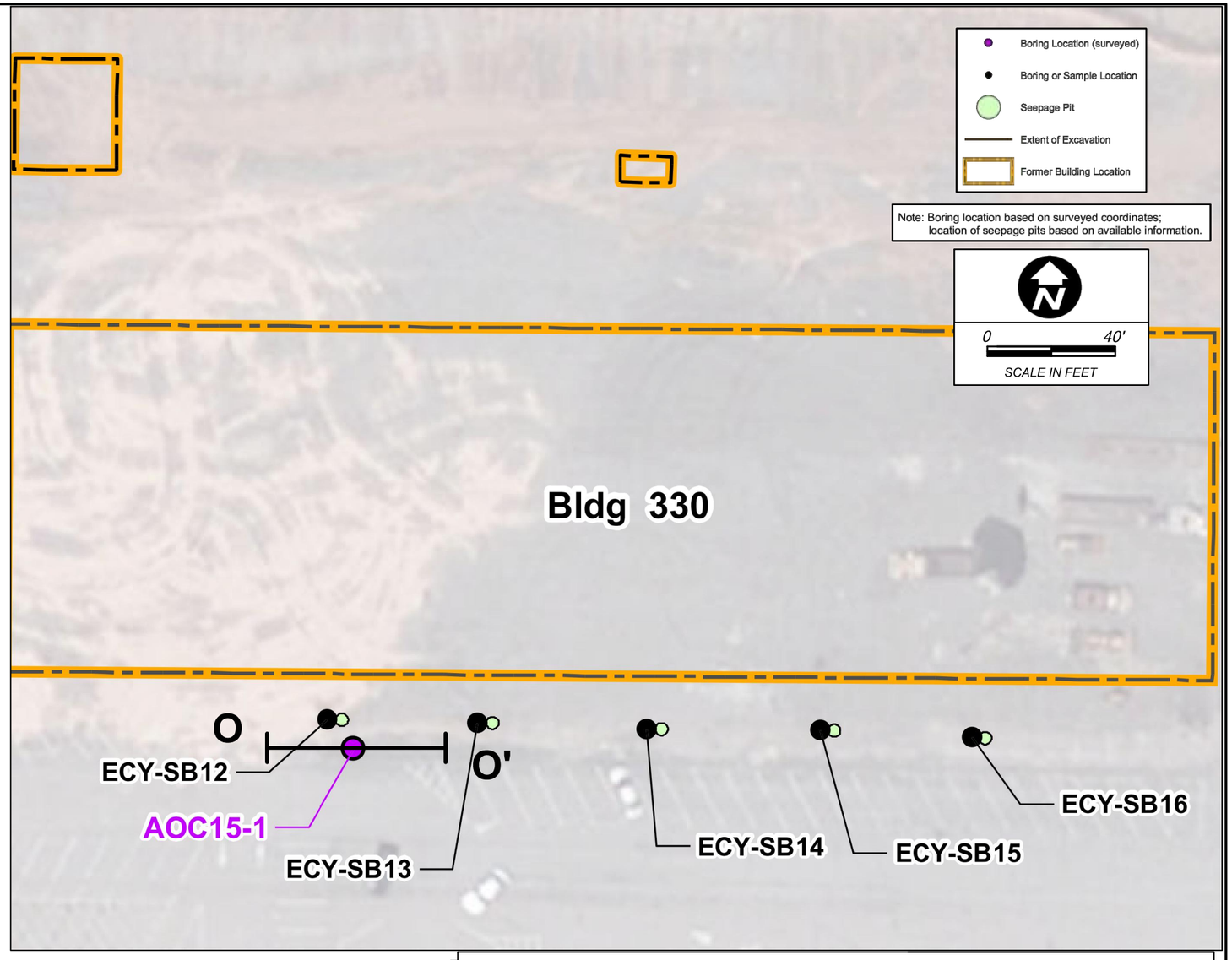
Figure 22
Cross-Section N-N' - AOC 14

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP





LEGEND

- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- Silty sand
- 22.1 — Chromium concentration (mg/kg)
- <0.10 — Hexavalent chromium concentration (mg/kg; NA = not analyzed)
- Soil sample from a boring

NOTE: Only in-place soil sample results are shown

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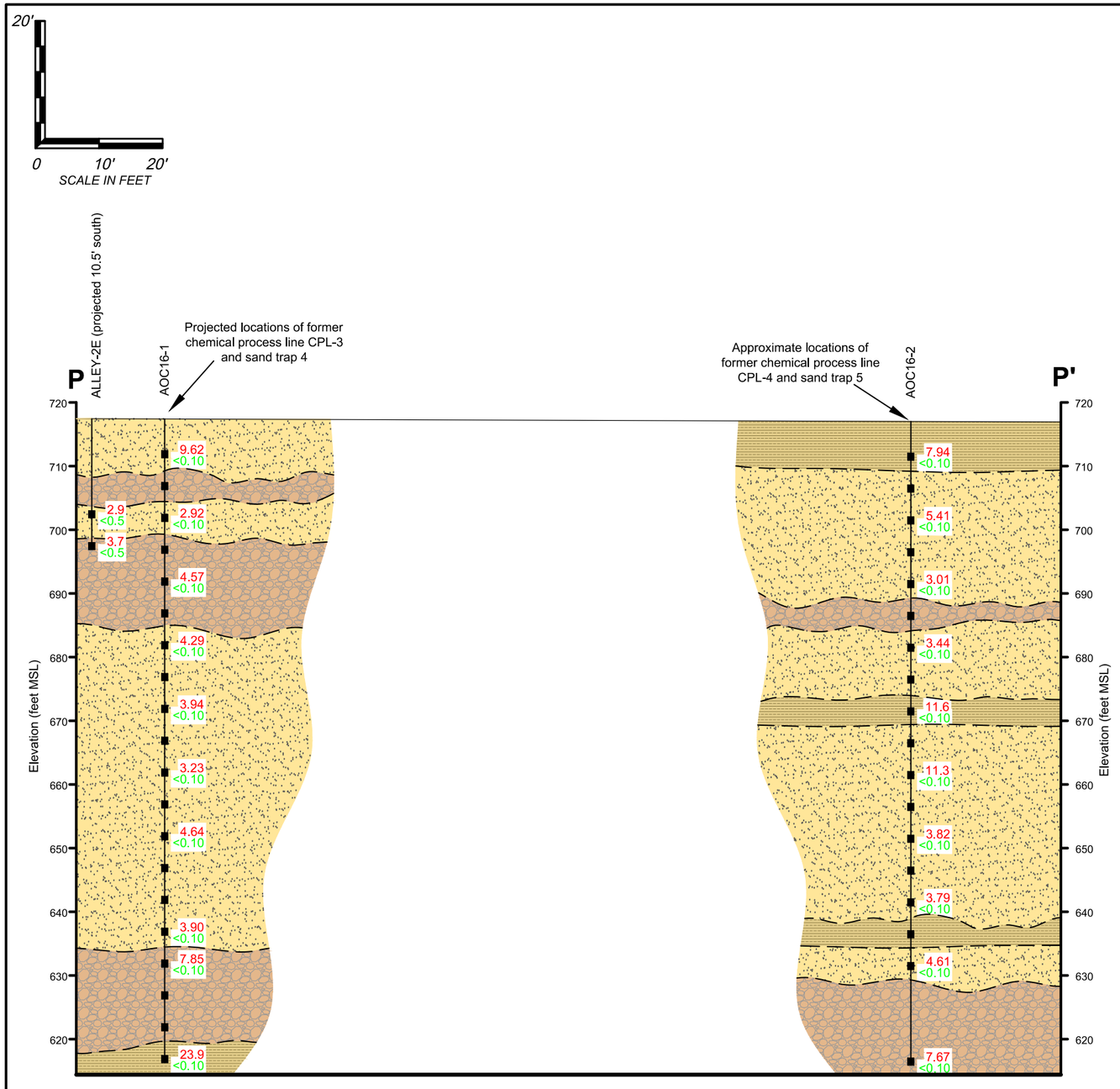
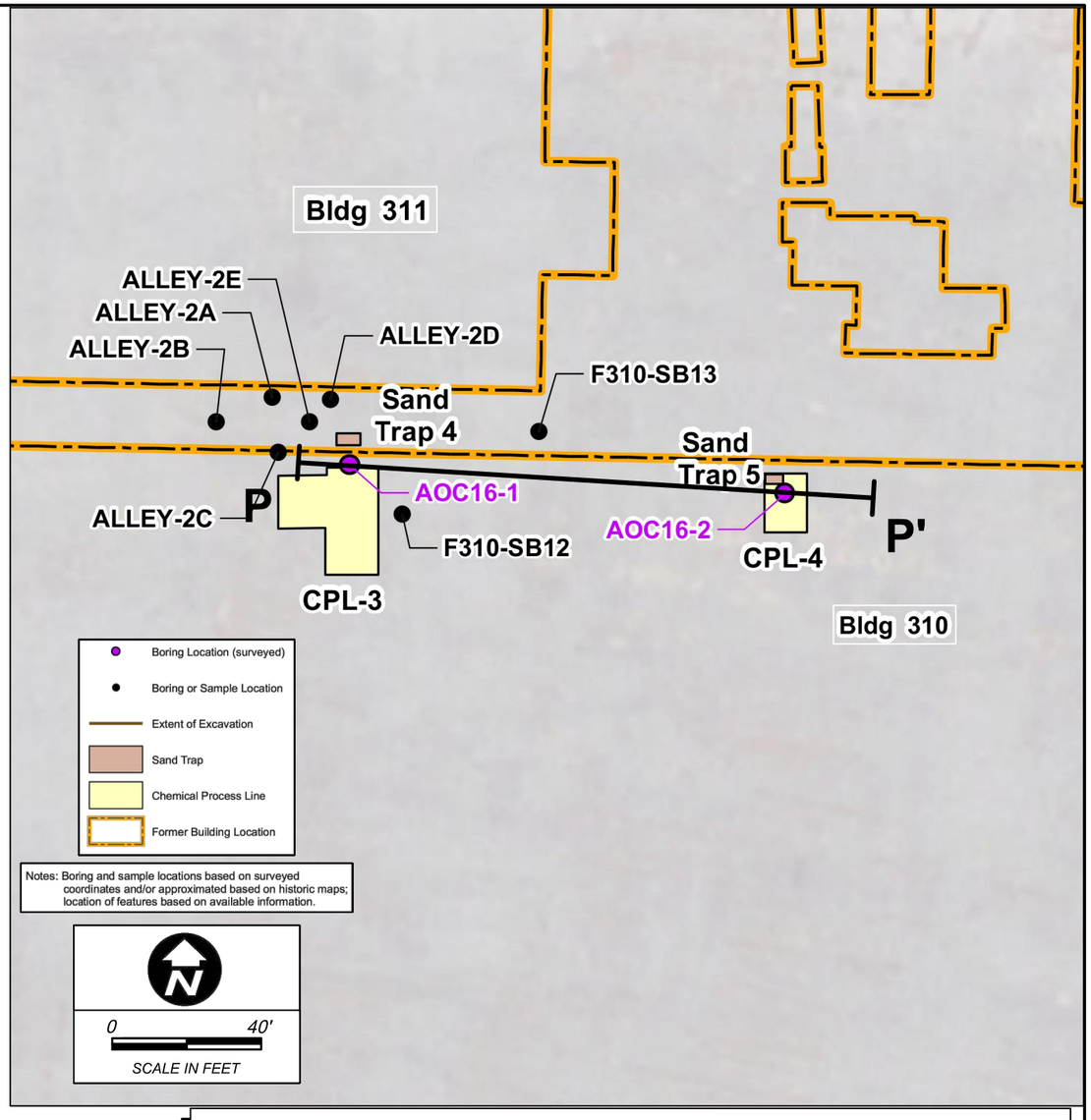
Figure 23
Cross-Section O-O' - AOC 15

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP





LEGEND

- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- Silty sand
- 23.9 Chromium concentration (mg/kg)
- <0.10 Hexavalent chromium concentration (mg/kg; NA = not analyzed)
- Soil sample from a boring

NOTE: Only in-place soil sample results are shown

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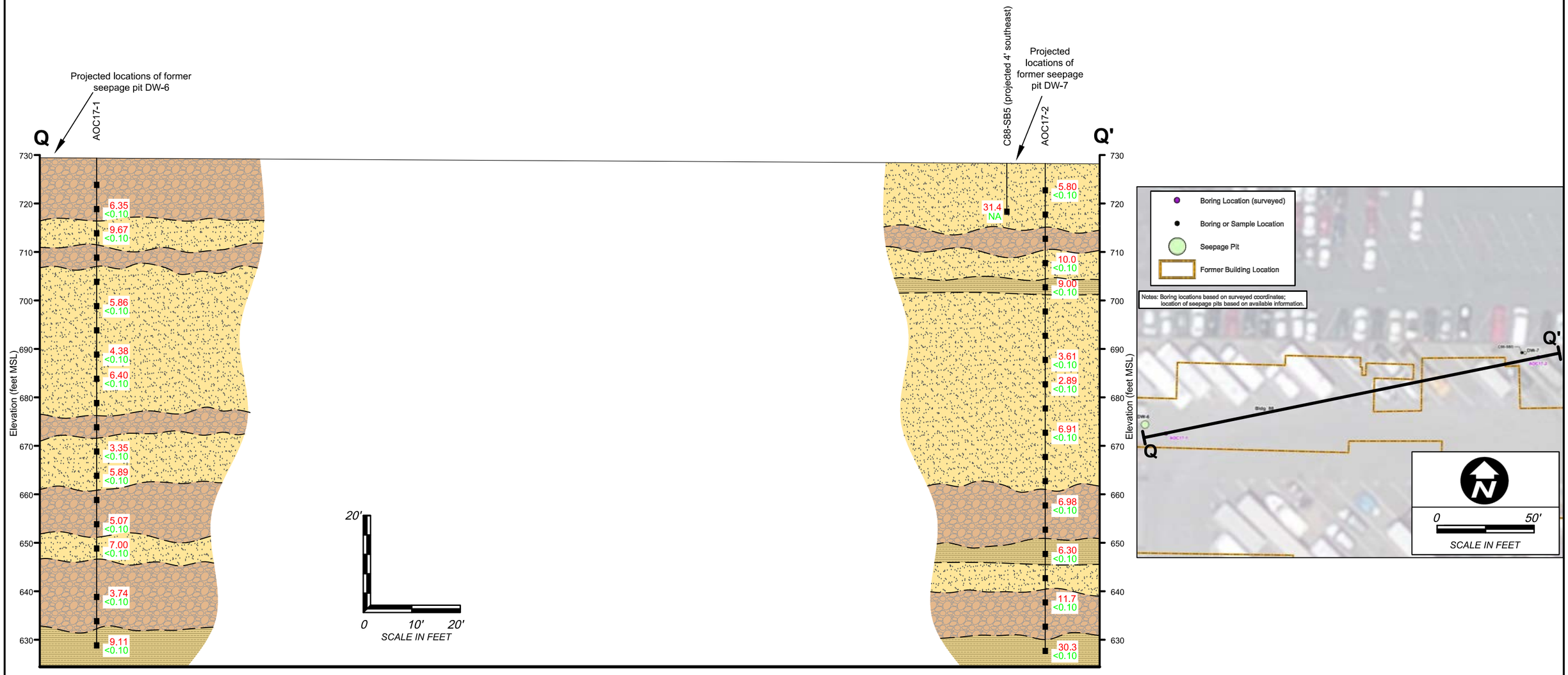
Figure 24
Cross-Section P-P' - AOC 16

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP



LEGEND

- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- Silty sand
- 31.4 — Chromium concentration (mg/kg)
- <0.10 — Hexavalent chromium concentration (mg/kg; NA = not analyzed)
- Soil sample from a boring

NOTE: Only in-place soil sample results are shown

Prepared By:
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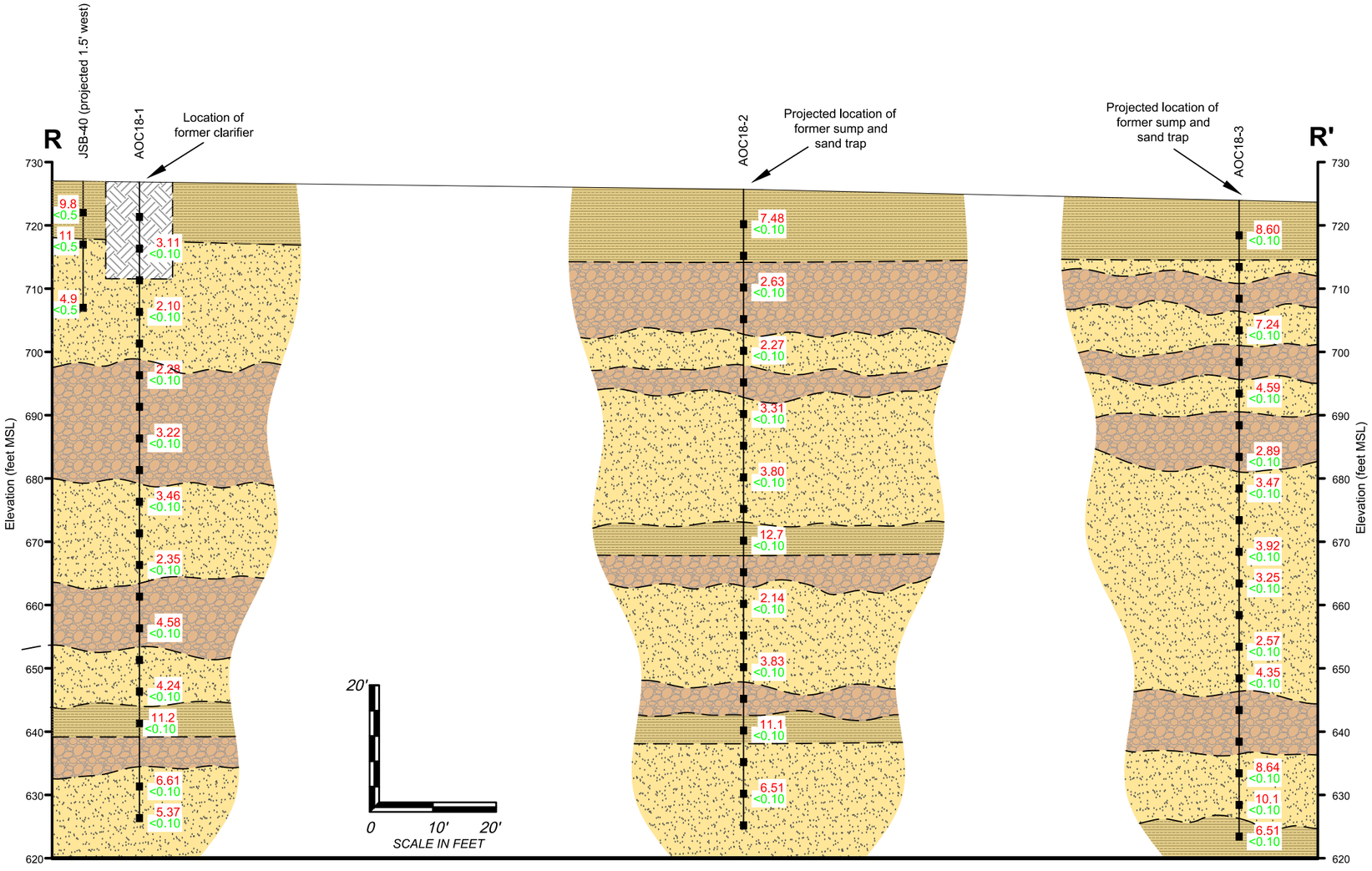
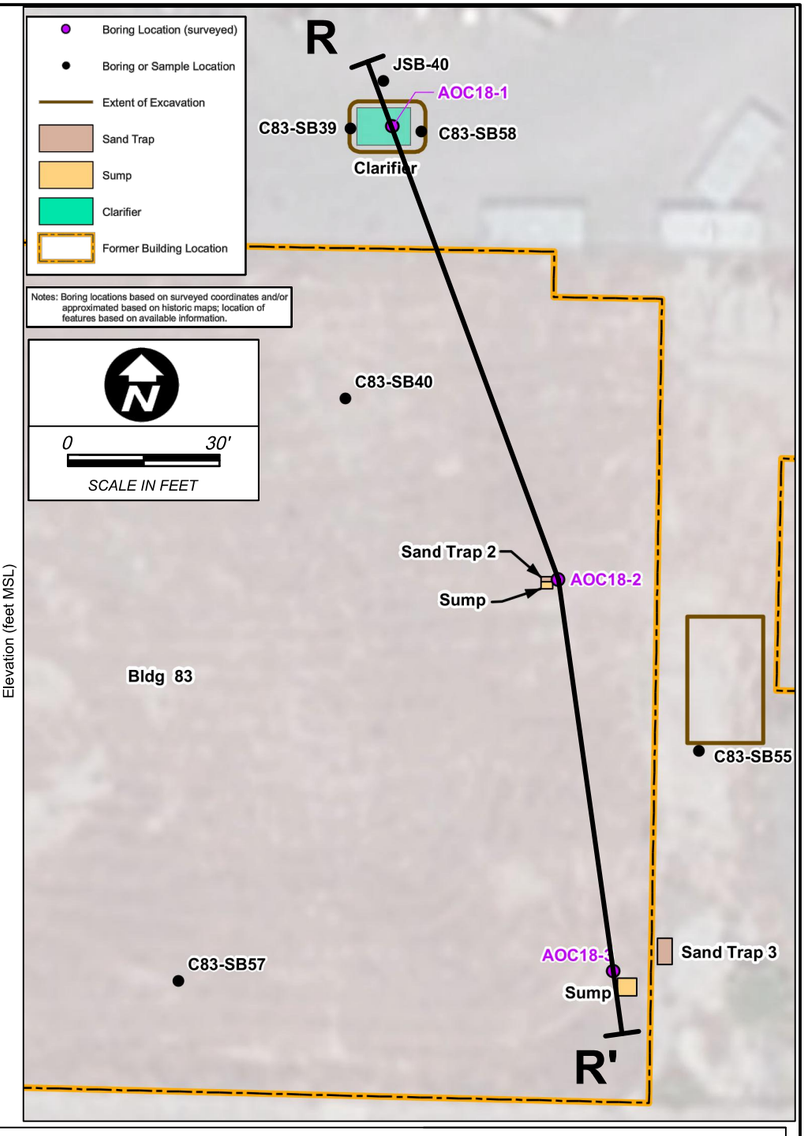
Figure 25
Cross-Section Q-Q' - AOC 17

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP





LEGEND

- Fill
- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- Silty sand
- 12.7 Chromium concentration (mg/kg)
- <0.10 Hexavalent chromium concentration (mg/kg)
- Soil sample from a boring

NOTE: Only in-place soil sample results are shown

Prepared By:
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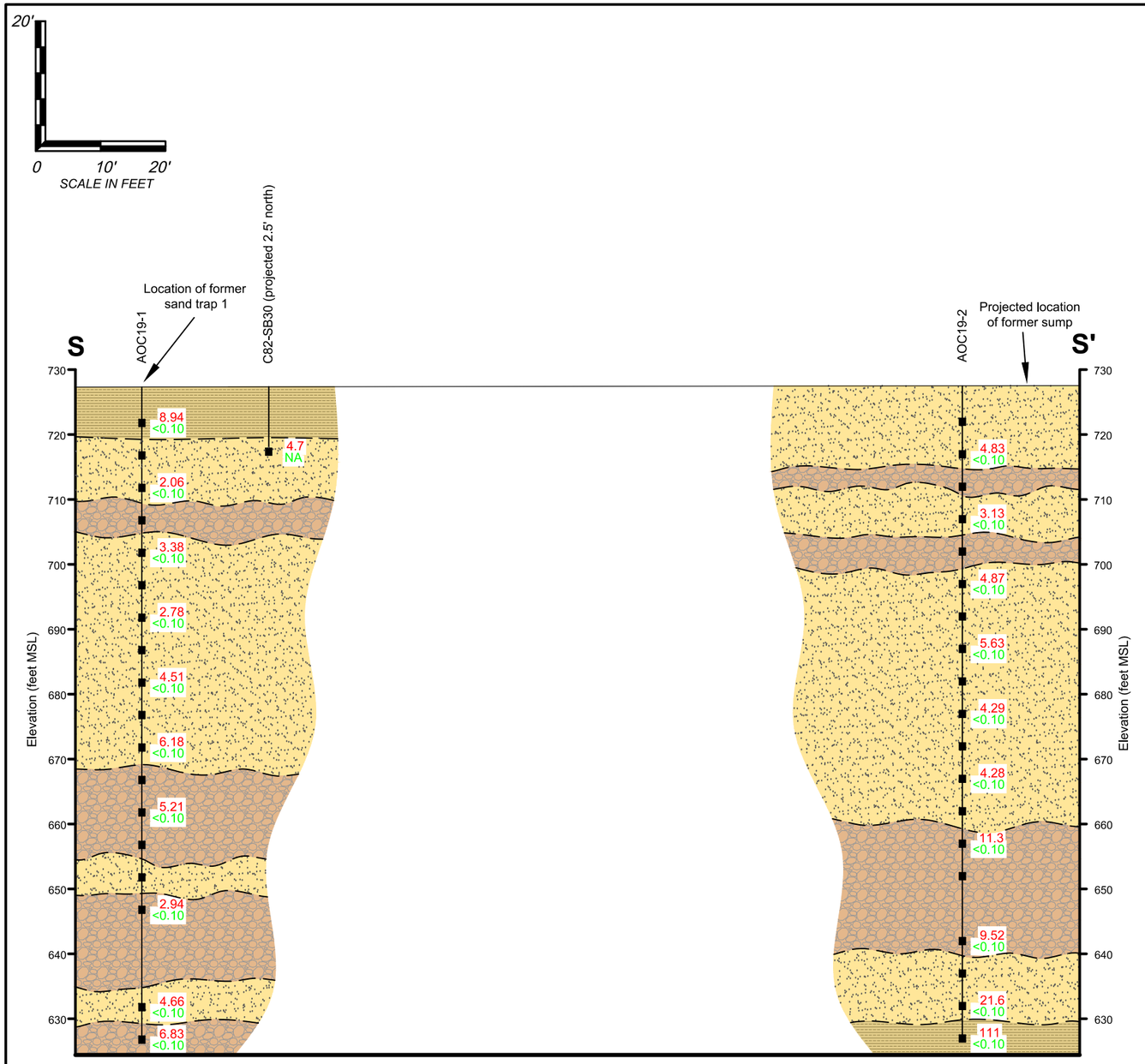
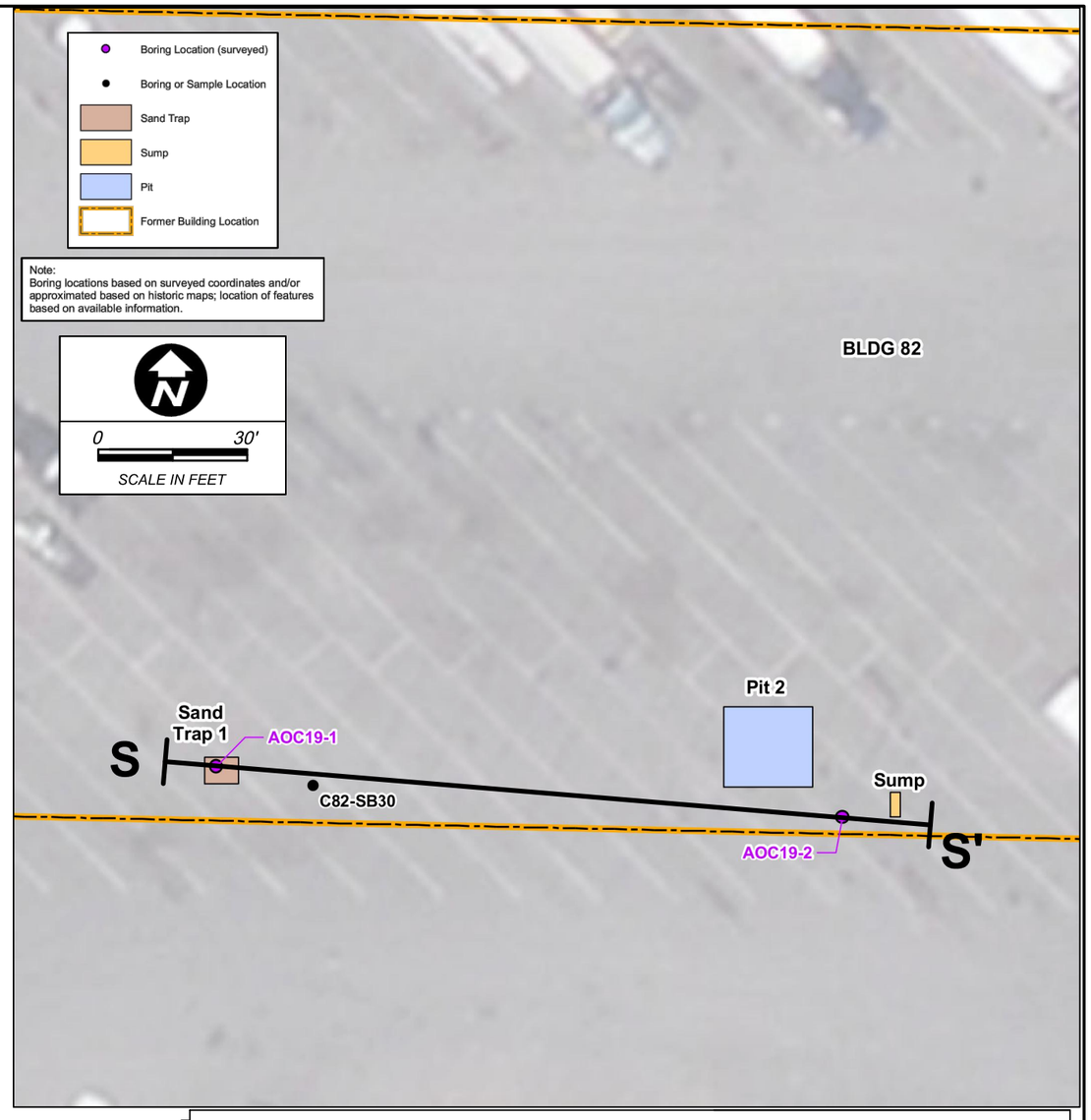
Figure 26
Cross-Section R-R' - AOC 18

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP





LEGEND

- Sand with gravel/cobbles to sandy gravel
- Poorly graded to well graded sand with varying amount of silt and gravel
- Silty sand
- 111 — Chromium concentration (mg/kg)
- <0.10 — Hexavalent chromium concentration (mg/kg; NA = not analyzed)
- Soil sample from a boring

NOTE: Only in-place soil sample results are shown

Prepared By:
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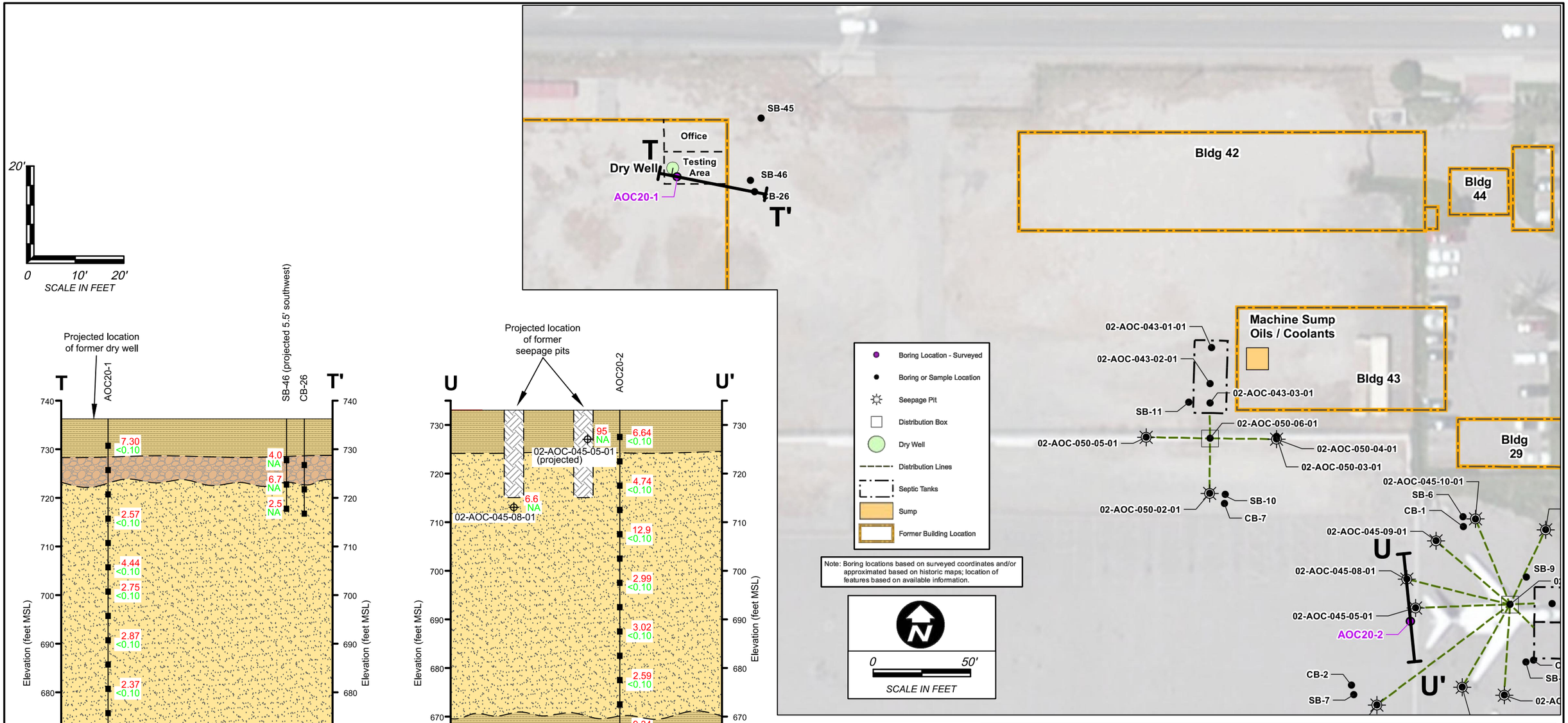
Figure 27
Cross-Section S-S' - AOC 19

DATE: December 2014
SCALE: As Shown
PROJECT NUMBER: 32955.FP



Prepared By:
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Figure 28
Cross-Section T-T' and U-U' - AOC 20

DATE
December 2014
SCALE
As Shown
PROJECT NUMBER
32955.FP

Section 7
CONCLUSIONS AND RECOMMENDATIONS

In compliance with the California Water Code Section 13267 Order No. R4-2013-0063 (the Order) and in accordance with a Regional Water Quality Control Board, Los Angeles (Regional Board)-approved work plan, 30 soil borings were drilled and sampled at 19 areas of concern (AOCs) to delineate the extent of volatile organic compounds (VOCs) and hexavalent chromium in the subsurface soil that may have originated from the former Lockheed Martin Corporation (Lockheed Martin) facilities specified in the Order. The work plan outlined the investigation of former features at 19 areas of concern (AOCs) at former Plants B-1, B-6, and C-1 be investigated for hexavalent chromium and eight of the AOCs be investigated for VOCs.

The Order required the investigation of VOCs at AOCs 2, 4 through 9, and AOC 11. Both the need for soil analyses for VOCs and the installation of soil gas probes were to be determined in the field by screening criteria established in the approved work plan. None of the samples screened in the field exceeded the established criteria. Therefore, no soil samples were tested for VOCs and no soil gas probes were installed. Based on the data collected and analyzed as part of this investigation, none of the features within the eight AOCs specified for VOC investigation appear to represent a significant potential source of VOCs in soil or to groundwater.

Total chromium was detected in all the samples tested from all 30 borings completed at the 19 AOCs. Hexavalent chromium was detected in 10 of the 30 borings that were completed within 6 of the 19 AOCs investigated. The potential for attenuation of hexavalent chromium was evaluated at various locations across the three former Lockheed plants sampled as part of this investigation. Locations both with and without hexavalent chromium impacts were included in the attenuation testing. The testing included geotechnical, geochemical, synthetic precipitation leaching procedure (SPLP), and available hexavalent chromium attenuation capacity (AHCAC) testing. The evaluation of the data from the borings indicates the following:

- Only soil samples from borings located in AOCs 2, 7, 8/9, 11, and 13 contained samples that had detected hexavalent chromium.

- The soils have the capacity to cause the chemical reduction of hexavalent chromium to trivalent chromium which would be followed by precipitation of the trivalent chromium to a low-solubility solid phase, resulting in attenuation of the hexavalent chromium.
- The low concentrations of hexavalent chromium in soils combined with the attenuation capacity for limiting the further migration of hexavalent chromium appears to be sufficient at AOCs 2, 11, and 13 to prevent the detected hexavalent chromium from migrating to the water table.
- The delineation of AOCs 7, 8, and 9 does not appear to be complete and the attenuation capacity may be insufficient to prevent the migration of the detected hexavalent chromium to the water table.

Based on the data collected and the analysis performed the specified features formerly located within each of the following 16 AOCs have been adequately delineated and do not represent a significant potential ongoing or future source of VOCs and/or hexavalent chromium in soil or to groundwater:

1. AOC 1
2. AOC 2
3. AOC 3
4. AOC 4
5. AOC 5
6. AOC 6
7. AOC 11
8. AOC 12
9. AOC 13
10. AOC 14
11. AOC 15
12. AOC 16
13. AOC 17
14. AOC 18
15. AOC 19
16. AOC 20

However, there is potential for hexavalent chromium impacts to groundwater in AOCs 7, 8, and 9 based upon the analyses provided in this report. The rate of water migration downward through the vadose zone has not been evaluated but the change in use of the properties and resulting changes in water-use practices has likely decreased the rate of water movement, and thus has reduced the potential for migration of hexavalent chromium, where present, vertically toward the water table. If any impacts to groundwater were to occur from these AOCs, immediately adjacent extraction wells (VO-1, VO-4, and VO-5) would capture the hexavalent chromium before further migration could take place (containment is verified in the annual and semiannual groundwater monitoring reports for the Burbank Operable Unit [BOU]; Tetra Tech, 2014b). Despite this fact, Lockheed Martin will discuss the need for additional soil and/or groundwater delineation efforts following the Regional Board assessment of the data and findings presented in this report. Future site characterization activities will then be described in work planning documents prepared for Regional Board review.

Section 8
REFERENCES

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13. Tetra Tech, 2014d. *Draft Project Quality Management Plan,* Revised - *Additional Site Investigation, Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1, Burbank, California. August 4.*

14. Tetra Tech, 2014e. *Quality Assurance Project Plan, Additional Site Investigation, Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1, Burbank, California. August 4.*

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17. Tetra Tech, 2014h. *Final Traffic Control Plan,* Revised - *Additional Site Investigation, Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1, Burbank, California. August 11.*

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Appendix A
FAA Determination Letter

Additional Site Investigation Report

Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1

Burbank, California

U.S. Department
of Transportation

**Federal Aviation
Administration**

,

September 08, 2014

TO:
Liaht Rosenstein
Attn: Lockheed Martin Corporation
12999 Deer Creek Canyon Road
Mail Stop: DC5684
Littleton, CO 80127
liaht.rosenstein@lmco.com

RE: *(See attached Table 1 for referenced case(s))*
FINAL DETERMINATION

Table 1 - Letter Referenced Case(s)

ASN	Prior ASN	Location	Latitude (NAD83)	Longitude (NAD83)	AGL (Feet)	AMSL (Feet)
2014-AWP-1399-NRA		BURBANK, CA	34-12-22.87N	118-21-21.92W	30	776
2014-AWP-1400-NRA		BURBANK, CA	34-12-17.57N	118-21-11.92W	30	758
2014-AWP-1401-NRA		BURBANK, CA	34-12-17.95N	118-21-11.37W	30	759
2014-AWP-1402-NRA		BURBANK, CA	34-12-11.24N	118-21-02.52W	30	749
2014-AWP-1403-NRA		BURBANK, CA	34-12-08.56N	118-21-00.91W	30	747
2014-AWP-1404-NRA		BURBANK, CA	34-12-04.31N	118-21-05.46W	30	745
2014-AWP-1405-NRA		BURBANK, CA	34-12-04.23N	118-21-04.06W	30	745
2014-AWP-1406-NRA		BURBANK, CA	34-12-19.16N	118-21-06.36W	30	760
2014-AWP-1407-NRA		BURBANK, CA	34-12-19.55N	118-21-04.07W	30	759
2014-AWP-1408-NRA		BURBANK, CA	34-12-13.04N	118-21-04.36W	30	757
2014-AWP-1409-NRA		BURBANK, CA	34-12-12.15N	118-21-03.97W	30	756
2014-AWP-1410-NRA		BURBANK, CA	34-12-11.40N	118-21-03.72W	30	754
2014-AWP-1411-NRA		BURBANK, CA	34-12-14.55N	118-21-05.81W	30	758
2014-AWP-1412-NRA		BURBANK, CA	34-12-14.51N	118-21-04.32W	30	758

2014-AWP-1413-NRA		BURBANK, CA	34-12-03.47N	118-21-58.29W	30	766
2014-AWP-1414-NRA		BURBANK, CA	34-12-01.23N	118-21-53.73W	30	764

Description: We will be drilling soil borings using a hollow-stem-auger drill rig. The rig has a mast that is approximately 25-30 feet in height. A checkered airport flag will be placed on the top of the mast. At the completion of work, the boring will be backfilled with cement slurry and patched with concrete. The duration of work is expected to be less than one day per boring. The drill rig tower will not be extended at night. The purpose of the boring is to comply with California Regional Water Quality Control Board - Los Angeles Order No. R4-2013-0063, which requires collection and analysis of soil samples at the specified locations.

We do not object with conditions to the construction described in this proposal provided:

You comply with the requirements set forth in FAA Advisory Circular 150/5370-2, "Operational Safety on Airports During Construction."

The proponent is required to coordinate all associated activities with the Airport Manager/Airport Traffic Control Tower (ATCT) prior to bringing in construction equipment/crane to the airport.

The ATCT should be given a phone number to reach the crane operator.

The proponent is required to coordinate all associated activities with the Airport Manager/Airport Traffic Control Tower (ATCT) in order to ensure the appropriate local NOTAM's are issued whenever men or equipment are adjacent to the runway or other movement areas.
Any vehicles exceeding Part 77 surfaces and/or operating on movement areas are appropriately marked and lighted in accordance with Advisory Circular 150/5210-5, Painting, Marking and Lighting of Vehicles Used on the Airport.

We request that construction equipment/crane be lowered or removed from worksites at night and during other periods of non-use.

Additional coordination and mitigation may be required if there are any radar effects due to equipment/crane activity.

This determination is subject to review if disruption to FAA Operations should occur.

A separate notice to the FAA is required for any construction equipment, such as temporary cranes, whose working limits would exceed the height and lateral dimensions of your proposal.

This determination does not constitute FAA approval or disapproval of the physical development involved in the proposal. It is a determination with respect to the safe and efficient use of navigable airspace by aircraft and with respect to the safety of persons and property on the ground.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns of neighboring airports, the effects it would have on the existing airspace structure and projected programs of the FAA, the effects it would have on the safety of persons and property on the ground, and the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

This determination expires on March 8, 2016 unless:
(a) extended, revised or terminated by the issuing office.
(b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for the completion of construction, or the date the FCC denies the application.

NOTE: Request for extension of the effective period of this determination must be obtained at least 15 days prior to expiration date specified in this letter.

If you have any questions concerning this determination contact Lloyd E. Lewis (310) 725-3650 lloyd.e.lewis@faa.gov.

Lloyd E. Lewis
DivUser

Appendix B
Boring Logs

Additional Site Investigation Report

Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1

Burbank, California

BORING	AOC1-1				**PAGE**	1 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/3/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	624.60		**NORTHING**	1892299.78	
					EASTING	6461721.47	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Boring hand-augered to 5 feet bgs	
5	14 17 21		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; trace coarse-grained sand; trace silt; trace fine- to medium-grained gravel; medium dense; moist; no staining; no odor	AOC1-1-5 10:20
10	11 13 15		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace silt; medium dense; moist; no staining; no odor	AOC1-1-10 10:25
15	15 15 20		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace silt; trace fine- to medium-grained gravel; medium dense; moist; no staining; no odor	AOC1-1-15 10:31
20	16 18 20		■	SP	POORLY GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 25% fine- to coarse-grained, subangular to subrounded gravel; medium-dense; moist; no staining; no odor	AOC1-1-20 10:35
25	17 20 23		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace coarse-grained sand; trace silt; trace fine- to medium-grained gravel; medium dense; moist; no staining; no odor	AOC1-1-25 10:41
30	6 8 10		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace coarse-grained sand; trace fine- to medium-grained gravel; loose; moist; no staining; no odor	AOC1-1-30 10:45
35	7 9 21		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace coarse-grained sand; medium dense; moist; no staining; no odor	AOC1-1-35 10:51
				SW		

BORING	AOC1-1				**PAGE**	2 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/3/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	624.60		**NORTHING**	1892299.78	
					EASTING	6461721.47	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	13 15 18		■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; medium dense; moist; no staining; no odor	AOC1-1-40 10:55
45	13 14 15		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine-grained sand; 5-10% silt; medium dense; moist; no staining; no odor	AOC1-1-45 11:00
50	10 3 15		■	SM	SILTY SAND - Olive (5Y 4/4); fine-grained sand; 30% silt; loose; moist; slight oxidation staining; no odor	AOC1-1-50 11:05
55	17 25 30		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine-grained sand; 5% silt; dense; moist; no staining; no odor	AOC1-1-55 11:17
60	40 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/3); fine-grained sand; 10% silt; 5% fine- to medium-grained gravel; very dense; moist; no staining; no odor	AOC1-1-60 11:34
65	28 23 55		■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 20% silt; dense; moist; slight oxidation staining; no odor	AOC1-1-65 11:41
70	45 30 30		■	SW	WELL GRADED SAND WITH GRAVEL - Yellowish red (5YR 5/6); fine- to coarse-grained sand; 25% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; oxidation staining; no odor	AOC1-1-70 11:46
75	33 50		■	SW	WELL GRADED SAND WITH GRAVEL - Yellowish brown (10YR 5/4); fine- to coarse-grained sand; 30% fine- to coarse-grained, subangular to subrounded gravel; trace silt; very dense; moist; no staining; no odor	AOC1-1-75 11:55

BORING	AOC1-1				**PAGE**	3 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/3/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	624.60		**NORTHING**	1892299.78	
					EASTING	6461721.47	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	30 50		■	SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/4); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC1-1-80 12:05
85	40 50		■	SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/4); fine- to coarse-grained sand; 25% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC1-1-85 12:53
90	45 50		■	SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/4); fine- to coarse-grained sand; 30% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Rig chatter from 93 to 95 feet bgs; driller indicated cobbles were encountered	AOC1-1-90 13:01
95	45 50		■	SM	SILTY SAND - Olive gray (5Y 5/2); fine- to medium-grained sand; 15% silt; very dense; damp; no staining; no odor	AOC1-1-95 13:13
100	45 50		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; trace silt; very dense; moist; no staining; no odor; moderate amount of dark-colored minerals	AOC1-1-100 13:31
105	38 50		■	SP	POORLY GRADED SAND - Olive (5Y 4/4); fine- to medium-grained sand; 10% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC1-1-105 14:05
110	30 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 4/4); fine-grained sand; 5% silt; dense; moist; no staining; no odor	AOC1-1-110 14:05
115	33 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 5% silt; very dense; moist; no staining; no odor	AOC1-1-115 14:16
				SP		

BORING	AOC1-1				**PAGE**	4 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/3/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	624.60		**NORTHING**	1892299.78	
					EASTING	6461721.47	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	40 50			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; 5% fine-grained gravel; very dense; moist; no staining; no odor	AOC1-1-120 14:29
125	30 50			SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 4/4); fine- to medium-grained sand; 5% silt; dense; moist; no staining; no odor	AOC1-1-125 14:48
130	23 50			SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 20% silt; dense; moist; no staining; no odor Geotechnical sample @ 131 feet bgs (AOC1-1-131; 14:52)	AOC1-1-130 14:49 AOC1-1-130-DUP 14:50
135	18 25			SW SM	WELL GRADED SAND - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; 5% fine-grained gravel; very dense; moist; no staining; no odor Geotechnical sample @ 136 feet bgs (AOC1-1-136; 15:10)	AOC1-1-135 15:06
140	27 23 25			SW	WELL GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC1-1-140 15:38
145	20 25 25			SM	SILTY SAND - Olive (5Y 4/4); fine- to medium-grained sand; 15-20% silt; medium dense; moist; no staining; no odor	AOC1-1-145 15:49
150					No recovery @ 150 feet bgs Total depth 150 feet; boring backfilled with cement-bentonite grout to 30 feet bgs, and hydrated bentonite from 30 feet bgs to the ground surface	
155						

BORING	AOC2-1				**PAGE**	1 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/4/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	621.22		**NORTHING**	1891890.33	
					EASTING	6461998.01	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface	
					Boring cleared with a vacuum truck to 14 feet bgs	
5						
10						
15	10 13 15	0.5	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace silt; medium dense; moist; no staining; no odor	AOC2-1-15 20:48
20	14 17 22	0.3	■	SW	WELL GRADED SAND WITH GRAVEL - Olive (5Y 5/3); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC2-1-20 20:51
25	10 15 15	0.7	■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; trace coarse-grained sand; medium dense; moist; no staining; no odor	AOC2-1-25 20:56
30	14 15 16	0.7	■	SP	POORLY GRADED SAND - Olive (5Y 4/4/); fine- to medium-grained sand; trace coarse-grained sand; medium dense; moist; no staining; no odor	AOC2-1-30 20:58
35	10 15 20	1.7	■	SW	WELL-GRADED SAND - Olive (5Y 4/3); fine- to coarse-grained sand; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC2-1-35 21:03
				SP		

BORING	AOC2-1				**PAGE**	2 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/4/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	621.22		**NORTHING**	1891890.33	
					EASTING	6461998.01	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	18 20 22	2.6		SP	POORLY GRADED SAND - Olive gray (5Y 5/2); fine-grained sand; medium dense; moist; no staining; no odor	AOC2-1-40 21:07
45	10 12 15	2.4		SM	SILTY SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 15% silt; medium dense; moist; no staining; no odor	AOC2-1-45 21:10
50	12 15 15	5.2		SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; medium dense; moist; no staining; no odor	AOC2-1-50 21:16
55	12 14 16	2.1		SM	SILTY SAND - Dark olive brown (2.5Y 3/3); fine- to medium-grained sand; 15-20% silt; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC2-1-55 21:21 AOC2-1-55-DUP 21:22
60	20 25	0.4		SW	WELL GRADED SAND WITH GRAVEL - Olive (5Y 5/3); fine- to coarse-grained sand; trace silt; 30% fine- to medium-grained gravel; trace silt; very dense; moist; no staining; no odor Geotechnical sample @ 61 feet bgs (AOC2-1-61; 21:40)	AOC2-1-60 21:35
65	50				No recovery @ 65 feet bgs	
70	25 50	0.2		SW	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; 30% fine- to coarse-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC2-1-70 21:56
75	35 50	0.4		SW	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; 35% fine- to coarse-grained, subangular to subrounded gravel; trace silt; very dense; moist; no staining; no odor	AOC2-1-75 22:16
				GP		

BORING	AOC2-1				**PAGE**	3 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/4/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	621.22		**NORTHING**	1891890.33	
					EASTING	6461998.01	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	40 50	0.0	■	GP	POORLY GRADED GRAVEL WITH SAND - Olive brown (2.5Y 4/4); fine- to coarse-grained, subangular to subrounded gravel; 40-45% fine- to coarse-grained sand; trace silt; very dense; moist; no staining; no odor; cobbles present, per drillers	AOC2-1-80 22:24
85	30 50	0.0	■	GP	POORLY GRADED GRAVEL WITH SAND - Gray (10YR 6/1); fine- to coarse-grained, subangular to subrounded gravel; 40-45% fine- to coarse-grained sand; trace silt; dense; moist; no staining; no odor; cobbles present, per drillers	AOC2-1-85 22:32
90	40 50	0.0	■	SM	SILTY SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; 15% silt; 15% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC2-1-90 22:38
95	45 50	0.7	■	SW	WELL-GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; trace silt; 15% fine-grained, subrounded gravel; very dense; damp; no staining; no odor	AOC2-1-95 22:44
100	40 50	0.4	■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC2-1-100 22:48
105	38 50	0.0	■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC2-1-105 22:57
110	30 50	0.0	■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; 10% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC2-1-110 23:05
115	33 50	0.4	■	SW	WELL-GRADED SAND WITH GRAVEL - Olive (5Y 5/3); fine- to coarse-grained sand; 25% fine- to medium-grained, subangular to subrounded gravel; very dense; damp; no staining; no odor	AOC2-1-115 23:27
				SM		

BORING	AOC2-1				**PAGE**	4 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/4/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	621.22		**NORTHING**	1891890.33	
					EASTING	6461998.01	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	30/50	1.0	■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 20% silt; dense; moist; no staining; no odor	AOC2-1-120 23:32
125	37/50	2.7	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC2-1-125 23:38
130	25/50	1.9	■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; trace fine- to medium-grained gravel; dense; moist; oxidation staining; no odor	AOC2-1-130 23:42
135	22/50	2.0	■	SP-SM	POORLY GRADED SAND WITH SILT - Olive gray (5Y 5/2); fine- to medium-grained sand; 10% silt; very dense; moist; slight oxidation staining; no odor	AOC2-1-135 23:51
140	40/50	1.0	■	SM	SILTY SAND -Dark grayish brown (2.5Y 4/2); fine- to medium-grained sand; 20% silt; very dense; moist; no staining; no odor	AOC2-1-140 23:55
145	35/50	0.8	■	SW	WELL GRADED SAND - Brown (10YR 4/3); fine- to coarse-grained sand; trace silt; trace fine-grained gravel; very dense; moist; slight oxidation staining; no odor	AOC2-1-145 23:58
150	42/50	0.4	■	SW	WELL GRADED SAND - Dark yellowish brown (10YR 4/4); fine- to coarse-grained sand; trace silt; trace fine-grained gravel; very dense; moist; slight oxidation staining; no odor Total depth 150 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC2-1-150 23:59
155						

BORING	AOC3-1				**PAGE**	1 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/5/2014 - 9/6/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	620.40		**NORTHING**	1891996.74	
					EASTING	6462486.77	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface	
					Boring cleared with a vacuum truck to 14 feet bgs	
5						
10						
15	15 18 20		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; 10% silt; medium dense; moist; no staining; no odor	AOC3-1-15 22:52
20	15 18 20		■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC3-1-20 22:56
25	20 28 33		■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC3-1-25 23:01
30	13 15 20		■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 20% silt; medium dense; moist; no staining; no odor	AOC3-1-30 23:05
35	15 15 20		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 4/4); fine- to medium-grained sand; 5-10% silt; medium dense; moist; no staining; no odor	AOC3-1-35 23:09
				SM		

BORING	AOC3-1				**PAGE**	2 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/5/2014 - 9/6/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	620.40		**NORTHING**	1891996.74	
					EASTING	6462486.77	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	15 17 34			SM	SILTY SAND - Olive (5Y 4/4); fine- to medium-grained sand; 30% silt; dense; moist; no staining; no odor	AOC3-1-40 23:14
45	13 15 17			SM	SILTY SAND - Olive (5Y 4/3); fine- to medium-grained sand; 15% silt; dense; moist; no staining; no odor	AOC3-1-45 23:18
50	20 26 28			SW	WELL GRADED SAND - Brown (10YR 5/3); fine- to coarse-grained sand; trace silt; dense; moist; no staining; no odor	AOC3-1-50 23:26
55	12 16 18			ML	SANDY SILT - Olive (5Y 4/3); 40% fine-grained sand; low plasticity; very stiff; moist; slight oxidation staining; no odor Geotechnical sample @ 56 feet bgs (AOC3-1-56; 23:32)	AOC3-1-55 23:30
60	15 18 20			SM	SILTY SAND - Dark grayish brown (2.5Y 4/2); fine- to medium-grained sand; 20% silt; medium dense; moist; slight oxidation staining; no odor	AOC3-1-60 23:35
65	40 50			SP-SM	POORLY GRADED SAND WITH SILT - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; 10% silt; medium dense; moist; slight oxidation staining; no odor	AOC3-1-65 23:38
70	37 50			SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); medium- to coarse-grained sand; 25% fine- to coarse-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor Rig chatter from 73 to 95 feet bgs	AOC3-1-70 23:46
75	45 50			SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 4/3); medium- to coarse-grained sand; 25% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC3-1-75 23:53

BORING	AOC3-1				**PAGE**	3 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/5/2014 - 9/6/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	620.40		**NORTHING**	1891996.74	
					EASTING	6462486.77	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	40 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); medium- to coarse-grained sand; 40% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC3-1-80 23:59
85	25 50		■	GP	POORLY GRADED GRAVEL WITH SAND - Olive brown (2.5Y 4/3); fine- to coarse-grained, subangular to subrounded gravel; 40% medium- to coarse-grained sand; dense; moist; no staining; no odor	AOC3-1-85 0:05
90	40 50		■	GP	POORLY GRADED GRAVEL WITH SAND - Olive brown (2.5Y 4/3); fine- to coarse-grained, subangular to subrounded gravel; 40% medium- to coarse-grained sand; dense; moist; no staining; no odor	AOC3-1-90 0:09
95	38 50		■	GP	POORLY GRADED GRAVEL WITH SAND - Olive brown (2.5Y 4/3); fine- to coarse-grained, subangular to subrounded gravel; 40% medium- to coarse-grained sand; dense; moist; no staining; no odor	AOC3-1-95 0:12
100	50		⊠		No recovery @ 100 feet bgs	
105	20 50		■	SP	POORLY GRADED SAND - Pale olive (2.5Y 5/3); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC3-1-105 0:26
110	28 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC3-1-110 23:05
115	20 50		■	SP-SM	POORLY GRADED SAND WITH SILT AND GRAVEL - Olive (5Y 4/3); fine- to medium-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; 5% silt; dense; moist; no staining; no odor	AOC3-1-115 0:49
				SM	Silty sand interbed @ 118-120 feet bgs	

BORING	AOC3-1				**PAGE**	4 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/5/2014 - 9/6/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	620.40		**NORTHING**	1891996.74	
					EASTING	6462486.77	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	38 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 5/3); fine- to coarse-grained sand; 40% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC3-1-120 0:51
125	27 35 40		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine-grained sand; trace silt; dense; moist; no staining; no odor	AOC3-1-125 1:01
130	33 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC3-1-130 1:11
135	25 50		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; trace silt; trace coarse-grained sand; trace fine- to medium-grained gravel; dense; moist; no staining; no odor	AOC3-1-135 1:18 AOC3-1-135-DUP 1:20
140	20 35 30		■	SP	POORLY GRADED SAND - Yellowish brown (10YR 5/4); fine- to coarse-grained sand; trace fine- to medium-grained gravel; dense; moist; no staining; no odor	AOC3-1-140 1:23
145	40 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Yellowish brown (10YR 5/4); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; slight oxidation staining; no odor	AOC3-1-145 1:28
150	18 35 35		■	SM	SILTY SAND - Yellowish brown (10YR 5/4); fine- to medium-grained sand; 20% silt; dense; moist; no staining; no odor Total depth 150 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC3-1-150 1:35
155						

BORING	AOC4-1				**PAGE**	1 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	11/6/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	603.93		**NORTHING**	1890312.47	
					EASTING	6463340.70	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface Boring hand-augered to 5 feet bgs	
5	15 18 20	0.2		SM	SILTY SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 15% silt; trace fine- to medium-grained gravel; medium dense; damp; no staining; no odor	AOC4-1-5 8:51
10	7 9 11	0.0		SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; trace silt; loose; moist; no staining; no odor	AOC4-1-10 8:52
15	9 12 15	0.0		SW	WELL GRADED SAND - Light yellowish brown (10YR 6/4); fine- to coarse-grained sand; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC4-1-15 9:00
20	18 25 28	0.0		SW	WELL GRADED SAND WITH GRAVEL - Olive (5Y 5/3); fine- to coarse-grained sand; 15% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC4-1-20 9:05
25	8 8 10	0.0		ML	SANDY SILT WITH CLAY - Dark yellowish brown (10YR 4/4); 55% silt; 40% fine-grained sand; 5% clay; low plasticity; stiff; moist; no staining; no odor	AOC4-1-25 9:08
30	17 20 25	0.0		SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 5/4); medium- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC4-1-30 9:13
35	20 20 45	0.8		SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC4-1-35 9:18
				SM		

BORING	AOC4-1				**PAGE**	2 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	11/6/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	603.93		**NORTHING**	1890312.47	
					EASTING	6463340.70	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	10 12 14	0.4	■	SM	SILTY SAND - Olive brown (2.5Y 4/4); fine-grained sand; 40% silt; trace clay; medium dense; moist; no staining; no odor	AOC4-1-40 9:22
45	5 11 13	0.0	■	SM	SILTY SAND - Olive brown (2.5Y 4/4); fine-grained sand; 40% silt; trace clay; medium dense; moist; no staining; no odor	AOC4-1-45 9:25
50	17 18 20	0.2	■	ML	SILT WITH CLAY AND SAND - Dark yellowish brown (10YR 4/4); 15% clay; 10% fine-grained sand; low plasticity; very stiff; moist; no staining; no odor	AOC4-1-50 9:30
55	20 20 20	0.2	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; trace silt; medium dense; moist; no staining; no odor	AOC4-1-55 9:34
60	17 23 28	0.5	☒	SW	WELL GRADED SAND WITH GRAVEL - Dark yellowish brown (10YR 3/4); fine- to coarse-grained sand; 15% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	
65	25 25 50	0.5	■	SW	WELL GRADED SAND WITH GRAVEL - Yellowish brown (10YR 5/6); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC4-1-65 9:45
70	35 50/3"	0.8	■	SW	WELL GRADED SAND WITH GRAVEL - Light yellowish brown (10YR 6/4); fine- to coarse-grained sand; 25% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC4-1-70 9:52
75	35 50	0.5	■	SP-SM	POORLY GRADED SAND WITH SILT AND GRAVEL - Dark yellowish brown (10YR 3/4); fine- to medium-grained sand; 30% fine-grained, subrounded gravel; 10% silt; very dense; moist; no staining; no odor	AOC4-1-75 10:00
				GP		

BORING	AOC4-1				**PAGE**	3 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	11/6/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	603.93		**NORTHING**	1890312.47	
					EASTING	6463340.70	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	23 25 28	0.4	■	GP	WELL GRADED SANDY GRAVEL - Dark brown (7.5YR 3/3); 65% fine- to medium-grained, subangular to subrounded gravel; 35% medium- to coarse-grained sand; dense; moist; oxidation staining; abundant dark minerals; no odor	AOC4-1-80 10:03
85	30 50	0.3	■	GP	WELL GRADED SANDY GRAVEL - Yellowish brown (10YR 5/6); 65% fine- to medium-grained, subangular to subrounded gravel; 35% medium- to coarse-grained sand; dense; moist; abundant oxidation staining; scattered dark minerals; no odor	AOC4-1-85 10:06
90	45 50	0.2	■	ML	SANDY SILT - Dark yellowish brown (10YR 4/6); 20% fine-grained sand; low plasticity; hard; moist; no staining; no odor	AOC4-1-90 10:16
95	40 50	1.4	■	SP	POORLY GRADED SAND - Light yellowish brown (2.5Y 6/4); fine- to medium-grained sand; trace fine-grained gravel; very dense; moist; no staining; no odor	AOC4-1-95 10:20
100	40 50/3"	0.5	■	SW	WELL GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; 15% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC4-1-100 10:27
105	48 50/3"	0.5	■	SW	WELL GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; 25% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC4-1-105 10:33
110	45 50/2"	0.7	■	SP	POORLY GRADED SAND - Olive (5Y 5/4); fine- to medium-grained sand; 5% fine-grained subrounded gravel; very dense; moist; no staining; no odor	AOC4-1-110 10:44
115	45 50/4"	0.6	■	SP	POORLY GRADED SAND - Olive (5Y 5/4); medium-grained sand; 5% fine-grained subrounded gravel; very dense; moist; no staining; no odor	AOC4-1-115 10:50

BORING	AOC4-1				**PAGE**	4 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	11/6/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	603.93		**NORTHING**	1890312.47	
					EASTING	6463340.70	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	40 50	0.7	■	SP	POORLY GRADED SAND -Pale olive (5Y 6/3); fine- to medium-grained sand; very dense; moist; no staining; no odor	AOC4-1-120 11:00
				ML	Sandy, clayey silt interbed at 12- to 124 feet bgs; 15% fine-grained sand; 20% clay; low plasticity	
125	45 50	1.4	■	SM	SILTY SAND - Dark yellowish brown (10YR 4/4); fine-grained sand; 40% silt; very dense; moist; oxidation staining; no odor	AOC4-1-125 11:10
130	37 50	5.5	■	ML	SANDY SILT WITH CLAY - Dark yellowish brown (10YR 4/4); 20% fine-grained sand; 5% clay; low plasticity; hard; wet; no staining; no odor	AOC4-1-130 11:25
135	25 37 30	1.7	■	ML	SANDY SILT WITH CLAY - Brown (7.5YR 4/4); 30% fine-grained sand; 5% clay; low plasticity; hard; wet; no staining; no odor Saturated soil encountered at 137 feet bgs; static water level at 135 feet bgs at 12:40 PM (after hole was left open for one hour) Total depth 137 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC4-1-135 11:41
140						
145						
150						
155						

BORING	AOC5-1				**PAGE**	1 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/8/2014 - 9/9/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	640.77		**NORTHING**	1892137.10	
					EASTING	6459733.63	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface Boring hand-augered to 5 feet bgs	
5	27 35 40	0.4	■	SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 4/4); fine- to medium-grained sand; trace coarse-grained sand; 10% silt; trace fine-grained gravel; dense; moist; no staining; no odor	AOC5-1-5 22:00
10	14 20 25	0.5	■	SP-SM	POORLY GRADED SAND WITH GRAVEL AND SILT - Olive (5Y 4/3); fine- to coarse-grained sand; 20% fine-grained, sub rounded gravel; 5% silt; medium dense; moist; no staining; no odor	AOC5-1-10 22:05
15	17 19 28	0.5	■	SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 4/4); fine- to medium-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC5-1-15 22:09
20	20 20 20	1.2	■	SP	POORLY GRADED SAND - Olive (5Y 4/4); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC5-1-20 22:14
25	10 12 14	1.1	■	SM	SILTY SAND - Olive (5Y 4/4); fine- to medium-grained sand; 30% silt; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC5-1-25 22:16
30	15 30 50	1.3	■	SP-SM	POORLY GRADED SAND WITH GRAVEL AND SILT - Olive (5Y 4/4); fine- to medium-grained sand; trace coarse-grained sand; 25% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC5-1-30 22:21
35	18 23 25	0.5	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; medium dense; moist; no staining; no odor	AOC5-1-35 22:30
				SP-SM		

BORING	AOC5-1				**PAGE**	2 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/8/2014 - 9/9/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	640.77		**NORTHING**	1892137.10	
					EASTING	6459733.63	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	29 45	1.5		SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 5/3); fine- to medium-grained sand; 10% silt; trace fine-grained gravel; dense; moist; no staining; no odor Geotechnical sample @ 41 feet bgs (AOC5-1-41; 22:35)	AOC5-1-40 22:32
45	23 23 28	0.8		SP-SM	POORLY GRADED SAND WITH SILT - Light olive brown (2.5Y 5/3); medium-grained sand; 10% silt; trace fine-grained gravel; dense; moist; no staining; no odor	AOC5-1-45 22:40
50	40 50	0.5		SP	POORLY GRADED SAND - Pale olive (5Y 6/3); medium- to coarse-grained sand; trace fine-grained gravel; very dense; moist; no staining; no odor	AOC5-1-50 22:45
55	20 30 35	0.7		SP	POORLY GRADED SAND - Pale olive (5Y 6/3); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC5-1-55 22:51
60	16 18 20	0.9		SM	SILTY SAND - Olive (5Y 4/3); fine- to medium-grained sand; 30% silt; medium dense; moist; no staining; no odor	AOC5-1-60 22:56
65	18 20 20	0.7		SP	POORLY GRADED SAND - Pale olive (5Y 6/3); fine- to medium-grained sand; medium dense; moist; no staining; no odor	AOC5-1-65 22:59
70	25 50	0.9		SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 4/4); fine- to medium-grained sand; 45% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC5-1-70 23:06
75	40 50	0.5		SW	WELL GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; very dense; moist; no staining; no odor	AOC5-1-75 23:12

BORING	AOC5-1				**PAGE**	3 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/8/2014 - 9/9/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	640.77		**NORTHING**	1892137.10	
					EASTING	6459733.63	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	45 50	1.7	■	SW	WELL GRADED SAND WITH GRAVEL - Olive (5Y 5/4); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC5-1-80 23:18
85	43 50	0.0	■	SW	WELL GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; 45% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC5-1-85 23:25
90	37 35 50	1.0	■	SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 5/6); medium- to coarse-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC5-1-90 23:31
95	42 50	1.7	■	SP	POORLY GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/6); medium- to coarse-grained sand; 25% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC5-1-95 23:38
100	47 50	1.4	■	SM	SILTY SAND WITH GRAVEL - Pale Olive (5Y 6/3); fine- to medium-grained sand; 15% silt; trace fine-grained gravel; very dense; moist; no staining; no odor	AOC5-1-100 23:48
105	47 50	1.7	■	SP-SM	POORLY GRADED SAND WITH GRAVEL AND SILT - Light olive brown (2.5Y 5/6); fine- to medium-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; 5% silt; very dense; moist; no staining; no odor	AOC5-1-105 23:51
110	38 50	1.4	■	SW	WELL GRADED SAND WITH GRAVEL - Light yellowish brown (2.5Y 6/3); fine- to coarse-grained sand; 40% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC5-1-110 23:59
115	40 50	2.5	■	SP	POORLY GRADED SAND WITH GRAVEL - Light olive brown (2.5Y5/4); fine- to medium-grained sand; trace fine- to medium-grained gravel; very dense; moist; no staining; no odor	AOC5-1-115 0:07

BORING	AOC5-1				**PAGE**	4 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/8/2014 - 9/9/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	640.77		**NORTHING**	1892137.10	
					EASTING	6459733.63	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	40 50	1.5	■	SP	POORLY GRADED SAND WITH GRAVEL - Light yellowish brown (2.5Y 6/4); fine- to medium-grained sand; 15% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC5-1-120 0:15
125	40 50	1.1	■	SP	POORLY GRADED SAND - Light yellowish brown (2.5Y 6/4); fine- to medium-grained sand; very dense; moist; no staining; no odor	AOC5-1-125 0:21 AOC5-1-125-DUP 0:25
130	25 25 50	0.8	■	SP	POORLY GRADED SAND - Light yellowish brown (2.5Y 6/4); fine- to medium-grained sand; 5% fine-grained gravel; trace silt; dense; moist; no staining; no odor	AOC5-1-130 0:30
135	30 50	0.6	■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC5-1-135 0:34
140	40 50	0.8	■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC5-1-140 0:44
145	40 50	1.1	■	SW	WELL GRADED SAND - Light yellowish brown (2.5Y 6/4); fine- to coarse-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC5-1-145 0:49
150	25 50	0.3	■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor Total depth 150 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC5-1-150 0:55
155						

BORING	AOC6-1				**PAGE**	1 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/10/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	639.44		**NORTHING**	1892272.13	
					EASTING	6459974.71	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface	
					Boring hand-augered to 5 feet bgs	
5	19 24 26	18.7	■	SP	POORLY GRADED SAND - Brown (10YR 4/3); fine- to medium-grained sand; trace coarse-grained sand; 5% subrounded coarse-grained gravel; dense; moist; no staining; no odor	AOC6-1-5 1:40
10	26 34 50	8.9	■	SP	POORLY GRADED SAND - Brown (10YR 4/3); fine- to medium-grained sand; trace coarse-grained sand; 5% subrounded coarse-grained gravel; very dense; moist; no staining; no odor	AOC6-1-10 1:45
15	27 33 50	7.3	■	SP	POORLY GRADED SAND - Brown (10YR 4/3); fine-grained sand; trace silt; very dense; moist; no staining; no odor	AOC6-1-15 1:50
20	27 33 39	20.6	■	SP	POORLY GRADED SAND - Brown (10YR 4/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC6-1-20 1:55
25	33 50	14.3	■	SP	POORLY GRADED SAND - Brown (10YR 4/3); medium- to coarse-grained sand; 10% fine-grained, subangular to subrounded gravel; trace silt; very dense; moist; no staining; no odor	AOC6-1-25 2:00
30	20 24 24	9.7	■	SM	SILTY SAND - Brown (10YR 5/3); fine-grained sand; 20% silt; medium dense; no staining; no odor	AOC6-1-30 2:18
35	19 37 50	17.0	■	SP	POORLY GRADED SAND - Brown (10YR 4/3); fine-grained sand; trace silt; very dense; moist; no staining; no odor	AOC6-1-35 2:35 AOC6-1-35-DUP 2:36
				SP-SM		

BORING	AOC6-1				**PAGE**	2 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/10/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	639.44		**NORTHING**	1892272.13	
					EASTING	6459974.71	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	39 50	2.4	■	SP-SM	POORLY GRADED SAND WITH SILT - Brown (10YR 5/3); fine-grained sand; 10% silt; 10% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC6-1-40 2:45
45	31 40 50	20.4	■	SP	POORLY GRADED SAND - Brown (10YR 4/3); fine- to medium-grained sand; trace silt; very dense; moist; no staining; no odor	AOC6-1-45 2:46
50	33 50	12.1	■	SP	POORLY GRADED SAND - Brown (10YR 4/3); fine- to medium-grained sand; trace coarse-grained sand; very dense; moist; no staining; no odor	AOC6-1-50 2:53
55	29 50	14.0	■	SM	SILTY SAND - Brown (10YR 4/3); fine-grained sand; 20% silt; dense; moist; no staining; no odor	AOC6-1-55 3:00
60	19 38 50	11.6	■	SP-SM	POORLY GRADED SAND WITH SILT - Brown (10YR 4/3); fine-grained sand; 10% silt; 10% medium- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Rig Chatter @ 63 feet bgs	AOC6-1-60 3:10
65	50	21.6	■	SP	POORLY GRADED SAND WITH GRAVEL - Brown (10YR 4/3); medium- to coarse-grained sand; 25% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC6-1-65 3:25
70	50	16.1	■	SP	POORLY GRADED SAND WITH GRAVEL - Brown (10YR 4/3); medium- to coarse-grained sand; 15% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC6-1-70 3:31
75	50	29.0	■	SP	POORLY GRADED SAND WITH GRAVEL - Brown (10YR 4/3); medium- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor Cobbles in drill cuttings	AOC6-1-75 4:07

BORING	AOC6-1				**PAGE**	3 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/10/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	639.44		**NORTHING**	1892272.13	
					EASTING	6459974.71	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50	11.6	■	SP	POORLY GRADED SAND WITH GRAVEL - Brown (10YR 4/3); medium- to coarse-grained sand; 15% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor Cobbles in drill cuttings	AOC6-1-80 4:14
85	50	6.4	■	SP	POORLY GRADED SAND - Brown (10YR 4/3); medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC6-1-85 4:21
90	50	36.6	■	SP	POORLY GRADED SAND WITH GRAVEL - Brown (10YR 4/3); fine- to medium-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC6-1-90 4:29
95	36 50	20.1	■	SP-SM	POORLY GRADED SAND WITH SILT - Brown (10YR 4/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; 5% silt; very dense; moist; no staining; no odor	AOC6-1-95 4:35 AOC6-1-95-DUP 4:36
100	50	11.9	■	SP	POORLY GRADED SAND - Brown (10YR 4/3); medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC6-1-100 5:00
105	50		⊠		No recovery @ 105 feet bgs; sampler was bouncing on gravel/cobbles	
110	50		⊠		No recovery @ 110 feet bgs; sampler was bouncing on gravel/cobbles	
115	50	18.4	■	SP	POORLY GRADED SAND - Brown (10YR 4/3); medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC6-1-115 21:35

BORING	AOC6-1				**PAGE**	4 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/10/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	639.44		**NORTHING**	1892272.13	
					EASTING	6459974.71	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50	15.8	■	SP	POORLY GRADED SAND - Brown (10YR 4/3); fine-grained sand; trace silt; dense; moist; no staining; no odor	AOC6-1-120 21:45
					Cobbles in cuttings	AOC6-1-120-DUP 21:46
125	50	10.0	■	SP-SM	POORLY GRADED SAND WITH SILT - Pale brown (10YR 5/3); fine-grained sand; 5% silt; dense; moist; no staining; no odor	AOC6-1-125 22:00
130	50	15.3	■	SM	SILTY SAND - Brown (10YR 5/3); fine-grained sand; 40% silt; dense; moist; no staining; no odor	AOC6-1-130 22:10
135	50		⊠		No recovery @ 135 feet bgs; sampler was bouncing on gravel/cobbles	
140	50	21.4	■	SW	WELL GRADED SAND - Light gray (10YR 7/1); fine- to coarse-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC6-1-140 22:30
145	50	13.6	■	SW	WELL GRADED SAND - Light gray (10YR 7/1); fine- to coarse-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC6-1-145 22:45
150	50	8.7	■	SP	POORLY GRADED SAND - Light gray (10YR 7/1); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC6-1-150 22:45
					Total depth 150 feet; boring backfilled with cement-bentonite grout and capped with concrete	
155						

BORING	AOC7-1				**PAGE**	1 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/9/2014 - 9/10/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	642.13		**NORTHING**	1892299.78	
					EASTING	6459576.80	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface Boring hand-augered to 5 feet bgs	
5	18 13 20	3.4	■	SP	POORLY GRADED SAND - Pale olive (5Y 6/3); fine- to medium-grained sand; trace silt; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC7-1-5 20:46
10	17 25 27	1.2	■	SP	POORLY GRADED SAND WITH GRAVEL - Pale olive (5Y 6/3); fine- to medium-grained sand; 15% fine- to medium-grained, sub rounded gravel; dense; moist; no staining; no odor	AOC7-1-10 20:50
15	15 10 25	0.8	■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; trace fine-grained gravel; medium-dense; moist; no staining; no odor	AOC7-1-15 20:57
20	17 21 24	3.2	■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 20% silt; trace fine-grained gravel; medium-dense; moist; no staining; no odor	AOC7-1-20 21:00
25	8 10 12	1.1	■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 20% silt; trace fine-grained gravel; medium-dense; moist; no staining; no odor	AOC7-1-25 21:03
30	14 18 22	1.5	■	SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 5/3); fine- to medium-grained sand; trace coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; medium dense; no staining; no odor	AOC7-1-30 21:08
35	18 25 30	6.2	■	SP	POORLY GRADED SAND - Olive (5Y 5/3); medium- to coarse-grained sand; trace fine-grained gravel; dense; no staining; no odor	AOC7-1-35 21:10

BORING	AOC7-1				**PAGE**	2 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/9/2014 - 9/10/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	642.13		**NORTHING**	1892299.78	
					EASTING	6459576.80	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	15 28 30	3.0		SP	POORLY GRADED SAND - Pale olive (5Y 6/3); fine- to medium-grained sand; trace fine-grained gravel; dense; no staining; no odor	AOC7-1-40 21:17
45	20 22 25	2.9		SW	WELL GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; trace fine-grained gravel; medium dense; no staining; no odor	AOC7-1-45 21:22
50	20 50	3.4		SW	WELL GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; trace fine-grained gravel; dense; no staining; no odor	AOC7-1-50 21:27
55	22 20 20	2.3		SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; trace fine- to medium-grained gravel; medium dense; no staining; no odor	AOC7-1-55 21:30
60	50		⊠		No recovery @ 60 feet bgs; sampler bouncing on gravel/cobbles Rig chatter from 64 to 80 feet bgs; driller indicated that there are abundant cobbles/gravel	
65	50		⊠		No recovery @ 60 feet bgs; sampler bouncing on gravel/cobbles	
70	25 50	6.0		SW	No recovery @ 70 feet bgs WELL GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; 15% fine- to coarse-grained gravel; trace silt; medium dense; no staining; no odor	AOC7-1-71.5 22:01
75	22 30 50	0.9		SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/4); fine- to coarse-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel; trace silt; medium dense; no staining; no odor Geotechnical sample @ 75.5 feet bgs (AOC7-1-75.5; 22:19)	AOC7-1-75 22:19

BORING	AOC7-1				**PAGE**	3 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/9/2014 - 9/10/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	642.13		**NORTHING**	1892299.78	
					EASTING	6459576.80	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	45 50	1.9	■	SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/4); fine- to coarse-grained sand; 15% fine- to coarse-grained gravel; trace silt; medium dense; no staining; no odor	AOC7-1-80 22:26
85	40 50	0.7	■	SW	WELL GRADED SAND WITH GRAVEL - Olive (5Y 4/4); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; trace silt; medium dense; no staining; no odor	AOC7-1-85 22:35
90	28 50	0.9	■	SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 5/6); medium- to coarse-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel;dense; moist; no staining; no odor	AOC7-1-90 22:40
95	25 50	1.9	■	SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 4/4); medium- to coarse-grained sand; 40% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-1-95 22:49
100	40 50	0.8	■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; 5% silt; very dense; moist; no staining; no odor	AOC7-1-100 22:55 AOC7-1-100 22:59
105	25 50	4.1	■	SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 4/4); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; 5% silt; dense; moist; no staining; no odor	AOC7-1-105 23:10
110	40 50	6.2	■	SM	SILTY SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 15% silt; very dense; moist; no staining; no odor	AOC7-1-110 23:18
115	30 50	10.9	■	SP	POORLY GRADED SAND WITH GRAVEL - Light olive brown (5Y 5/4); medium- to coarse-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-1-115 23:51

BORING	AOC7-1				**PAGE**	4 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/9/2014 - 9/10/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	642.13		**NORTHING**	1892299.78	
					EASTING	6459576.80	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	40 50	18.8	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/4); fine-grained sand; trace silt; very dense; moist; no staining; no odor	AOC7-1-120 0:10 AOC7-1-120-DUP 0:15
125	20 23 25	26.5	■	ML	SANDY SILT - Olive brown (2.5Y 4/4); 45% fine-grained sand; very stiff; moist; no staining; no odor	AOC7-1-125 0:19
130	20 10 50	8.3	■	SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 4/4); fine- to medium-grained sand; 10% silt; dense; moist; no staining; no odor	AOC7-1-130 0:41
135	30 50	9.6	■	SW	WELL GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; 35% fine to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-1-135 0:50
140	40 50	0.0	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; trace fine-grained gravel; trace silt; very dense; moist; no staining; no odor	AOC7-1-140 1:41
145	40 50	0.7	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace fine-grained gravel; very dense; moist; no staining; no odor	AOC7-1-145 1:45
150	38 50	1.0	■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; trace fine- to medium-grained gravel; very dense; moist; no staining; no odor Total depth 150 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC7-1-150 1:49
155						

BORING	AOC7-2				**PAGE**	1 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/8/2014 - 9/9/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	640.64		**NORTHING**	1892256.51	
					EASTING	6459609.24	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface Boring hand-augered to 5 feet bgs	
5	36 26 27	1.2	■	SP	POORLY GRADED SAND - Brown (10YR 4/2); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-5 21:48
10	19 32 35	2.7	■	SP	POORLY GRADED SAND - Brown (10YR 4/2); fine- to coarse-grained sand; 10% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-10 21:54
15	17 50	1.4	■	SP	POORLY GRADED SAND - Brown (10YR 4/2); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-15 22:02
20	36 50	3.0	■	SP	POORLY GRADED SAND - Brown (10YR 4/2); fine- to medium-grained sand; very dense; moist; no staining; no odor	AOC7-2-20 22:10
25	33 38 40	3.1	■	SM	SILTY SAND - Brown (10YR 4/2); fine-grained sand; 15% silt; dense; moist; no staining; no odor	AOC7-2-25 22:15
30	32 50	4.0	■	SP	POORLY GRADED SAND - Brown (10YR 4/2); fine- to medium-grained sand; trace silt; dense; moist; no staining; no odor	AOC7-2-30 22:20
35	32 50	2.0	■	SP	POORLY GRADED SAND - Brown (10YR 4/2); medium- to coarse-grained sand; 10% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-35 22:25

BORING	AOC7-2				**PAGE**	2 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/8/2014 - 9/9/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	640.64		**NORTHING**	1892256.51	
					EASTING	6459609.24	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	30 50	3.0	■	SP	POORLY GRADED SAND WITH GRAVEL - Brown (10YR 5/3); medium- to coarse-grained sand; 15% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-40 22:30 AOC7-2-40-DUP 22:32
45	21 50	5.4	■	SW	WELL GRADED SAND - Brown (10YR 5/3); fine to coarse-grained sand; dense; moist; no staining; no odor	AOC7-2-45 22:40
50	50	9.4	■	SW	WELL GRADED SAND - Brown (10YR 5/3); fine to coarse-grained sand; dense; moist; no staining; no odor	AOC7-2-50 22:50
55	36 50	8.7	■	SM	SILTY SAND - Dark grayish brown (10YR 4/2); fine-grained sand; 15% silt; 5% fine-grained, subangular gravel; very dense; moist; no staining; no odor	AOC7-2-55 22:55
60	50	5.3	■	SP-SM	POORLY GRADED SAND WITH SILT - Pale brown (10YR 6/3); fine- to medium-grained sand; 5% silt; dense; moist; no staining; no odor Rig chatter @ 64 feet bgs	AOC7-2-60 23:01
65	50	6.0	■	SW	WELL GRADED SAND WITH GRAVEL - Pale brown (10YR 6/3); fine- to coarse-grained sand; 20% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-65 23:10
70	50	4.7	■	SW	WELL GRADED SAND - Pale brown (10YR 6/3); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC7-2-70 23:15
75	50	7.7	■	SW	WELL GRADED SAND WITH GRAVEL - Pale brown (10YR 6/3); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-75 23:28
				SP	Rig chatter @ 78 feet bgs	

BORING	AOC7-2				**PAGE**	3 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/8/2014 - 9/9/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	640.64		**NORTHING**	1892256.51	
					EASTING	6459609.24	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50	16.4		SP	POORLY GRADED SAND WITH GRAVEL - Brown (10YR 5/3); fine- to medium-grained sand; 20% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-80 23:40
85	50	1.7		SP	POORLY GRADED SAND - Brown (10YR 5/3); fine- to medium-grained sand; 10% fine to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-85 23:50
90	50	6.1		SP	POORLY GRADED SAND WITH GRAVEL - Brown (10YR 5/3); fine- to medium-grained sand; 20% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-90 0:02 AOC7-2-90-DUP 0:04
95	50	13.6		SP	POORLY GRADED SAND WITH GRAVEL - Brown (10YR 5/3); fine- to medium-grained sand; 15% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-95 0:12
100	50	20.7		SP	POORLY GRADED SAND WITH GRAVEL - Brown (10YR 5/3); fine- to medium-grained sand; 15% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-100 0:20
105	50	23.5		SP	POORLY GRADED SAND - Brown (10YR 5/3); fine- to medium-grained sand; 5% fine-to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-105 0:32
110	50	15.0		SP	POORLY GRADED SAND - Brown (10YR 5/3); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC7-2-110 0:40
115	50	17.8		SP	POORLY GRADED SAND WITH GRAVEL - Brown (10YR 5/3); medium- to coarse-grained sand; 15% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC7-2-115 0:50
				SM		

BORING	AOC7-2				**PAGE**	4 **OF** 4	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/8/2014 - 9/9/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	640.64		**NORTHING**	1892256.51	
					EASTING	6459609.24	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	42 50	16.4		SM	SILTY SAND - Brown (10YR 4/3); fine-grained sand; 45% silt; very dense; moist; no staining; no odor	AOC7-2-120 1:01
125	36 50	7.8		ML	SANDY SILT - Brown (10YR 4/3); 45% fine-grained sand; non-plastic; hard; moist; no staining; no odor Geotechnical sample @ 125 feet bgs (AOC7-2-125; 1:06)	AOC7-2-125 1:06
130	24 50	11.5		SP	POORLY GRADED SAND - Brown (10YR 4/3); fine- to medium-grained sand; trace silt; trace fine-grained gravel; dense; moist; no staining; no odor	AOC7-2-130 2:10
135	50	21.4		SP	POORLY GRADED SAND WITH GRAVEL - Brown (10YR 4/3); medium- to coarse-grained sand; 30% fine- to coarse-grained gravel; dense; moist; no staining; no odor Refusal @ 135 feet bgs; total depth 135 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC7-2-135 2:12
140						
145						
150						
155						

BORING	AOC8/9-1				**PAGE**	1 **OF** 2	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/2/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	609.58		**NORTHING**	1890910.77	
					EASTING	6463006.03	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface Boring hand-augered to 5 feet bgs	
5	16 23 24	0.1			SILTY SAND - Brown (10YR 4/3); fine-grained sand; 15% silt; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC8/9-1-5 10:45
10	20 21 33	0.1		SM	SILTY SAND - Dark grayish brown (10YR 4/2); fine-grained sand; 15% silt; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC8/9-1-10 10:55
15	14 30 50	0.2			SILTY SAND - Very dark grayish brown (10YR 3/2); fine-grained sand; 40% silt; dense; moist; no staining; no odor	AOC8/9-1-15 11:00
20	10 14 40	0.3		SP	POORLY GRADED SAND - Brown (10YR 4/3); medium-grained sand; 10% fine- to medium-grained, subangular to sub rounded gravel; dense; moist; no staining; no odor	AOC8/9-1-20 11:05
25	16 34 41	0.2		SP	POORLY GRADED SAND WITH GRAVEL - Light gray (10YR 7/1); medium-grained sand; 20% fine- to medium-grained, subangular to sub rounded gravel; trace silt; dense; moist; no staining; no odor; abundant dark-colored minerals	AOC8/9-1-25 11:15
30	16 38 42	0.0		SP	POORLY GRADED SAND WITH GRAVEL - Light gray (10YR 7/1); medium-grained sand; 15% fine- to medium-grained, subangular to sub rounded gravel; dense; moist; no staining; no odor	AOC8/9-1-30 11:20
35	43 50	1.6		ML	POORLY GRADED SAND - Light gray (10YR 7/1); fine- to medium-grained sand; very dense; moist; no staining; no odor	AOC8/9-1-35 11:45

BORING	AOC8/9-1				**PAGE**	2 **OF** 2	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/2/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	609.58		**NORTHING**	1890910.77	
					EASTING	6463006.03	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	11 23 27	1.6	■	ML	SANDY SILT - Brown (10YR 5/3); 15% fine-grained sand; low plasticity; very stiff; moist; no staining; no odor	AOC8/9-1-40 11:45
45	14 21 26	0.8	■	ML	SANDY SILT WITH CLAY - Brown (10YR 5/3); 10% clay; 40% fine-grained sand; low plasticity; very stiff; moist; no staining; no odor	AOC8/9-1-45 11:50 AOC8/9-1-45-DUP 11:51
50	14 20 24	2.1	■	ML	CLAYEY SILT WITH SAND - Brown (10YR 5/3); 30% clay; 10% fine-grained sand; medium plasticity; very stiff; moist; no staining; no odor	AOC8/9-1-50 11:55
55	5 15 14	0.2	■	SM	SILTY SAND - Brown (10YR 4/3); fine-grained sand; 35% silt; medium dense; moist; no staining; no odor	AOC8/9-1-55 12:00
60	17 50	0.4	■	SP	POORLY GRADED SAND - Brown (10YR 5/3); fine-grained sand; trace silt; dense; moist; no staining; no odor Total depth 60 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC8/9-1-60 12:10
65						
70						
75						

BORING	AOC8/9-2				**PAGE**	1 **OF** 2	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/2/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	609.63		**NORTHING**	1890851.08	
					EASTING	6463478.11	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface Boring hand-augered to 5 feet bgs	
5	40 35 40	0.0	■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 10% silt; trace fine-grained gravel; dense; moist; no staining; no odor	AOC8/9-2-5 10:24
10	35 50	0.1	■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 5% silt; trace fine-grained gravel; dense; moist; no staining; no odor	AOC8/9-2-10 10:29
15	18 23 28	0.2	■	SM	SILTY SAND - Dark yellowish brown (10YR 3/4); fine-grained sand; 20% silt; dense; moist; no staining; no odor	AOC8/9-2-15 10:36
20	15 25 30	0.1	■	SM	SILTY SAND - Dark yellowish brown (10YR 3/4); fine-grained sand; 15% silt; dense; moist; no staining; no odor	AOC8/9-2-20 10:42
25	14 17 21	0.0	■	SP	POORLY GRADED SAND - Pale olive (5Y 6/3); fine-grained sand; 10% fine-grained, subangular to sub rounded gravel; trace silt; dense; moist; no staining; no odor	AOC8/9-2-25 10:49
30	20 25 27	0.0	■	SP	POORLY GRADED SAND - Brown (7.5YR 5/4); fine- to medium-grained sand; trace silt; trace fine- to medium-grained gravel; dense; moist; no staining; no odor	AOC8/9-2-30 10:56
35	16 18 20	0.0	■	SM	SILTY SAND - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 30% silt; medium dense; moist; no staining; no odor	AOC8/9-2-35 11:01
				ML		

BORING	AOC8/9-2				**PAGE**	2 **OF** 2	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/2/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	609.63		**NORTHING**	1890851.08	
					EASTING	6463478.11	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	10 15 15	0.0		ML	SANDY SILT - Olive brown (2.5Y 4/4); low plasticity; 25% fine-grained sand; stiff; moist; no staining; no odor	AOC8/9-2-40 11:07 AOC8/9-2-40-DUP 11:08
45	10 12 14	0.0		SM	SILTY SAND - Olive gray (5Y 5/2); fine-grained sand; 30% silt; medium dense; moist; no staining; no odor	AOC8/9-2-45 11:11
50	11 13 15	0.0		SW	WELL GRADED SAND WITH GRAVEL - Olive gray (5Y 4/2); fine- to coarse-grained sand; 20% fine- to medium-grained, subangular to sub rounded gravel; trace silt; medium dense; moist; no staining; no odor	AOC8/9-2-50 11:23
55	12 10 10	0.0		ML	SANDY, CLAYEY SILT - Dark olive brown (2.5Y 3/3); 20% fine-grained sand; 20% clay; low plasticity; firm; moist; no staining; no odor	AOC8/9-2-55 11:28
60	30 50 50	0.0		SP	POORLY GRADED SAND - Olive brown (2.5Y 4/4); fine- to medium-grained sand; trace silt; trace fine-grained gravel; very dense; moist; no staining; no odor Total depth 60 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC8/9-2-60 11:30 AOC8/9-2-60-DUP 11:31
65						
70						
75						

BORING	AOC8/9-3				**PAGE**	1 **OF** 2	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/2/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	609.55		**NORTHING**	1890860.33	
					EASTING	6463487.52	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface Boring hand-augered to 5 feet bgs	
5	16 23 25	0.0	■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 10% silt; medium dense; moist; no staining; no odor	AOC8/9-3-5 14:35
10	20 25 30	1.8	■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 10% silt; dense; moist; no staining; no odor	AOC8/9-3-10 14:40
15	18 20 20	0.2	■	SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 4/3); fine- to medium-grained sand; 10% silt; medium dense; moist; no staining; no odor	AOC8/9-3-15 14:42
20	15 17 21	0.1	■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 15% silt; medium dense; moist; no staining; no odor	AOC8/9-3-20 14:47
25	14 16 18	0.0	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine-grained, subangular to sub rounded gravel; trace silt; medium dense; moist; no staining; no odor	AOC8/9-3-25 14:49
30	30 50	0.0	■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to sub rounded gravel; medium dense; moist; no staining; no odor	AOC8/9-3-30 14:54
35	25 37 30	0.0	■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 30% silt; dense; moist; no staining; no odor	AOC8/9-3-35 14:59
				ML		

BORING	AOC8/9-3				**PAGE**	2 **OF** 2	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/2/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	609.55		**NORTHING**	1890860.33	
					EASTING	6463487.52	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	12 13 15	0.0		ML	SANDY SILT - Olive brown (2.5Y 4/3); low plasticity; 30% fine-grained sand; stiff; moist; no staining; no odor	AOC8/9-3-40 15:02
45	10 12 14	0.0		ML	SANDY SILT - Olive brown (2.5Y 4/3); low plasticity; 30% fine-grained sand; stiff; moist; no staining; no odor	AOC8/9-3-45 15:06
50	12 12 14	0.0		SW	WELL GRADED SAND - Pale Yellow (2.5Y 7/3); fine- to coarse-grained sand; 5% fine-grained, subangular to sub rounded gravel; trace silt; medium dense; moist; no staining; no odor	AOC8/9-3-50 15:10
55	11 12 13	0.0		ML	SANDY, CLAYEY SILT - Olive brown (2.5Y 4/3); 20% fine-grained sand; 35% clay; medium plasticity; stiff; moist; no staining; no odor	AOC8/9-3-55 15:14 AOC8/9-3-55-DUP 15:15
60	24 27 30	0.0		SP	POORLY GRADED SAND - Olive (5Y 4/4); fine- to medium-grained sand; trace silt; trace fine-grained gravel; very dense; moist; no staining; no odor Total depth 60 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC8/9-3-60 15:20
65						
70						
75						

BORING	AOC8/9-4				**PAGE**	1 **OF** 2	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/3/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	602.21		**NORTHING**	1890922.38	
					EASTING	6463701.61	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface	
					Boring cleared with a vacuum truck to 10 feet bgs	
5						
10	9 10 9	0.3	■	SP	POORLY GRADED SAND - Light brownish gray (10YR 6/2); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to sub rounded gravel;loose; moist; no staining; no odor	AOC8/9-4-10 9:10
15	13 23 25	0.4	■	SP	POORLY GRADED SAND WITH GRAVEL - Light brownish gray (10YR 6/2); fine- to medium-grained sand; 15% fine- to medium-grained, subangular to sub rounded gravel;loose; moist; no staining; no odor	AOC8/9-4-15 9:18
20	17 23 28	0.0	■	SP	POORLY GRADED SAND - Light brownish gray (10YR 6/2); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC8/9-4-20 9:22
25	3 2 50	0.4	■	SW	WELL GRADED SAND - Light brownish gray (10YR 6/2); fine- to coarse-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC8/9-4-25 9:32
30	12 14 24	0.7	■	ML	SANDY SILT - Brown (10YR 4/4); 40% fine-grained sand; non-plastic; very stiff; moist; no staining; no odor	AOC8/9-4-30 9:38
35	11 15 21	0.5	■	SM	SILTY SAND - Yellowish brown (10YR 5/4); fine-grained sand; 30% silt; low plasticity; medium dense; moist; no staining; no odor	AOC8/9-4-35 9:42

BORING	AOC8/9-4				**PAGE**	2 **OF** 2	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/3/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	602.21		**NORTHING**	1890922.38	
					EASTING	6463701.61	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	18 21 28	0.1	■	ML	SANDY SILT - Brown (10YR 4/3); 30% fine-grained sand; low plasticity; very stiff; moist; no staining; no odor	AOC8/9-4-40 9:56
45	12 14 23	0.0	■	ML	SANDY SILT - Brown (10YR 4/3); 30% fine-grained sand; low plasticity; very stiff; moist; no staining; no odor	AOC8/9-4-45 10:05 AOC8/9-1-45-DUP 10:06
50	12 23 28	1.1	■	SM	SILTY SAND - Brown (10YR 4/3); fine-grained sand; 30% silt; hard; moist; no staining; no odor	AOC8/9-4-50 10:15
55	16 34 43	0.1	■	SP-SM	POORLY GRADED SAND WITH SILT - Light brownish gray (10YR 6/2); 10% silt; dense; moist; oxidation staining; no odor	AOC8/9-4-55 10:20
60	16 29 30	1.6	■	SP	POORLY GRADED SAND - Light brownish gray (10YR 6/2); trace silt; dense; moist; iron-oxide staining; no odor Total depth 60 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC8/9-4-60 10:50
65						
70						
75						

BORING	AOC11-1				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/5/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	704.72		**NORTHING**	1896210.58	
					EASTING	6456802.3	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface	
					Boring cleared with a vacuum truck to 10 feet bgs	
5						
10	42 50	5.7		SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 5% silt; 5% medium- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC11-1-10 21:01 AOC11-1-10-DUP 21:02
15	32 50	0.8		SW	WELL GRADED SAND - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC11-1-15 21:10
20	50	1.1		SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/4); fine- to coarse-grained sand; 15% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC11-1-20 21:20
25	50	3.0		SP	POORLY GRADED SAND - Olive brown (2.5Y 4/4); fine- to medium-grained sand; trace fine-grained gravel; trace silt; dense; moist; no staining; no odor	AOC11-1-25 21:25
30	50 50	3.6		SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 5% silt; trace fine-grained gravel; dense; moist; no staining; no odor Geotechnical sample @ 30 feet bgs (AOC11-1-30; 21:35)	AOC11-1-30 21:35
35	50	3.7		SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC11-1-35 21:55

BORING	AOC11-1				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/5/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	704.72		**NORTHING**	1896210.58	
					EASTING	6456802.3	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50	4.3	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC11-1-40 22:04
45	50	1.5	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC11-1-45 22:10
50	50	3.0	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; trace fine-grained gravel; trace silt; dense; moist; no staining; no odor	AOC11-1-50 22:15
55	50		⊠		No recovery @ 55 feet bgs; sampler bouncing on gravel/cobbles	
60	100		⊠		No recovery @ 60 feet bgs; sampler bouncing on gravel/cobbles; cobbles in soil cuttings	
65	100	0.3	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC11-1-65 22:47
70	37 50	1.3	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; very dense; moist; no staining; no odor	AOC11-1-70 22:50 AOC11-1-70-DUP 22:51
75	50		⊠		No recovery @ 75 feet bgs; sampler bouncing on gravel/cobbles	

BORING	AOC11-1			**PAGE**	3	**OF**	3
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National	**DATE**	9/5/2014		
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister	**REVIEW BY**	M Weinberger		
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger	**PG #**	8286		
SAMPLE METHOD	Calif. Drive	**ELEVATION**	704.72	**NORTHING**	6456802.3		
				EASTING	6456802.3		

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50		X		No recovery @ 80 feet bgs; sampler bouncing on gravel/cobbles	
85	50		X		No recovery @ 80 feet bgs; sampler bouncing on gravel/cobbles	
90	50	1.4	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC11-1-90 23:42
95	50	3.2	■	SP	POORLY GRADED SAND WITH GRAVEL - Grayish brown (2.5Y 5/2); fine- to coarse-grained sand; 15% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC11-1-95 23:47
100	50	1.1	■	SP-SM	POORLY GRADED SAND WITH SILT AND GRAVEL - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 5% silt; 15% fine-grained gravel; dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC11-1-100 23:55
105						
110						
115						

BORING	AOC11-1R				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/19/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	704.73		**NORTHING**	1896215.69	
					EASTING	6456800.8	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface	
					Boring cleared with a vacuum truck to 10 feet bgs	
5						
10	30 35 40	22.4	■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 5% silt; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC11-1R-10 17:50
15	47 50	31.2	■	SW	WELL GRADED SAND - Light yellowish brown (2.5Y 6/3); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC11-1R-15 17:55
20	27 30 33	2.6	■	SW	WELL GRADED SAND - Light yellowish brown (2.5Y 6/3); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC11-1R-20 18:00
25	22 27 33	4.3	■	SW	WELL GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 6/3); fine- to coarse-grained sand; 30% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC11-1R-25 18:05
30	27 35 40	2.2	■	SW	WELL GRADED SAND - Light olive brown (2.5Y 6/3); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC11-1R-30 18:10
35	20 25 35	4.2	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand;trace fine-grained gravel; dense; moist; no staining; no odor	AOC11-1R-35 18:15 AOC11-1R-35-DUP 18:16

BORING	AOC11-1R				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/19/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	704.73		**NORTHING**	1896215.69	
					EASTING	6456800.8	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	23 30 33	11.7	■	SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC11-1R-40 18:25
45	12 15 15	15.7	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; trace fine-grained gravel; trace silt; medium dense; moist; no staining; no odor	AOC11-1R-45 18:30
50	7 7 7	4.3	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; trace silt; loose; moist; no staining; no odor	AOC11R-1-50 18:35
55	7 9 11	19.9	■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 20% medium- to coarse-grained, subangular to subrounded gravel; loose; moist; no staining; no odor	AOC11R-1-55 18:40
60	11 15 15	0.8	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; medium dense; moist; no staining; no odor	AOC11R-1-60 18:45
65	20 23 25	12.1	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace fine-grained; gravel; medium dense; moist; no staining; no odor	AOC11-1R-65 18:50
70	25 50	6.6	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/4); fine-grained sand; dense; moist; no staining; no odor	AOC11-1R-70 19:00
75	40 50	1.9	■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 25% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC11-1R-75 19:05

BORING	AOC11-1R				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/19/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	704.73		**NORTHING**	6456800.8	
					EASTING	6456800.8	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	25 50	4.8	■	SP	POORLY GRADED SAND WITH GRAVEL - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC11-1R-80 19:10 AOC11-1R-80-DUP 19:11
85	40 50	12.3	■	SP	POORLY GRADED SAND WITH GRAVEL - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC11-1R-85 19:15
90	45 50	0.2	■	SW	WELL GRADED SAND - Dark grayish brown (2.5Y 4/2); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor; abundant dark, micaceous minerals	AOC11-1R-90 19:20
95	45 50	0.4	■	SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 25% fine- to coarse-grained, subangular to subrounded gravel;very dense; moist; no staining; no odor	AOC11-1R-95 19:25
100	45 50	0.6	■	SP	POORLY GRADED SAND WITH GRAVEL - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 20% fine- to coarse-grained gravel; very dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC11-1R-100 19:30
105						
110						
115						

BORING	AOC11-2				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/4/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	704.48		**NORTHING**	1896153.13	
					EASTING	6456817.98	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface	
					Boring cleared with a vacuum truck to 10 feet bgs	
5						
10	7 14 23	0.4	■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/2); fine- to coarse-grained sand; 5% fine-grained, subangular to subrounded gravel; trace silt; medium dense; moist; no staining; no odor	AOC11-2-10 21:26
15	20 33 50	0.2	■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/2); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC11-2-15 21:30
20	36 50	0.1	■	SW	WELL GRADED SAND - Light brownish brown (2.5Y 6/2); fine- to coarse-grained sand; 5% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC11-2-20 21:35
25	50	0.1	■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 20% medium- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC11-2-25 21:40
30	31 50	1.3	■	SP	POORLY GRADED SAND - Light 0live brown (2.5Y 5/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC11-2-30 21:44
35	35 50	2.2	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine-grained sand; trace silt; very dense; moist; no staining; no odor	AOC11-2-35 21:50 AOC11-2-35-DUP 21:51

BORING	AOC11-2				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/4/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	704.48		**NORTHING**	1896153.13	
					EASTING	6456817.98	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	34 50	1.2	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/2); fine- to medium-grained sand; trace silt; very dense; moist; no staining; no odor	AOC11-2-40 21:55
45	50	6.2	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/2); fine- to medium-grained sand; very dense; moist; no staining; no odor	AOC11-2-45 22:00
50	50	3.0	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; trace fine-grained gravel; trace silt; very dense; moist; no staining; no odor Rig chatter @ 52 feet bgs	AOC11-2-50 22:05
55	50		⊠		No recovery @ 55 feet bgs; sampler bouncing on gravel/cobbles	
60	50	0.5	■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/2); fine- to coarse-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC11-2-60 22:15
65	50		⊠		No recovery @ 65 feet bgs; sampler bouncing on gravel/cobbles	
70	37	0.2	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; trace silt; very dense; moist; no staining; no odor	AOC11-2-70 22:25
75	50	1.0	■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Rig chatter @ 78 feet bgs	AOC11-2-75 22:40

BORING	AOC11-2			**PAGE**	3	**OF**	3
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National	**DATE**	9/4/2014		
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister	**REVIEW BY**	M Weinberger		
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger	**PG #**	8286		
SAMPLE METHOD	Calif. Drive	**ELEVATION**	704.48	**NORTHING**	6456817.98		
				EASTING	6456817.98		

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50		⊠		No recovery @ 80 feet bgs; sampler bouncing on gravel/cobbles; rig chatter; abundant gravel and cobbles in cuttings	
85	50		⊠		No recovery @ 80 feet bgs; sampler bouncing on gravel/cobbles	
90	50	1.4	■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; trace silt; very dense; moist; no staining; no odor	AOC11-2-90 23:30
95	50		⊠		No recovery @ 80 feet bgs; sampler bouncing on gravel/cobbles	
100	50	0.9	■	SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; 45% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC11-2-100 23:35
105						
110						
115						

BORING	AOC12-1				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/19/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	745.58		**NORTHING**	1897664.99	
					EASTING	6454001.86	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface	
					Boring hand-augered to 5 feet bgs	
5	10 10 14			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); medium- to coarse-grained sand; 5% fine-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC12-1-5 12:12
10	14 17 20			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC12-1-10 12:15
15	15 20 20			SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); medium- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC12-1-15 12:17
20	28 30 33			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 10% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC12-1-20 12:19
25	18 23 37			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); medium- to coarse-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC12-1-25 12:25
30	20 30 35			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC12-1-30 12:30 AOC12-1-30-DUP 12:31
35	20 25 28			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC12-1-35 12:35

BORING	AOC12-1				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/19/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	745.58		**NORTHING**	1897664.99	
					EASTING	6454001.86	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	25 30 30		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC12-1-40 12:40
45	25 27 36		■	SP	POORLY GRADED SAND WITH GRAVEL - Light brownish gray (2.5Y 6/2); fine- to medium-grained sand; 25% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC12-1-45 12:45
50	28 37 40		■	SP	POORLY GRADED SAND WITH GRAVEL - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 25% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC12-1-50 12:50
55	18 24 27		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 15% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC12-1-55 12:55
60	20 25 30		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC12-1-60 13:00
65	26 34 40		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC12-1-65 13:05
70	20 25 25		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC12-1-70 13:10
75	20 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Light olive brown (2.5Y 5/3); fine-grained sand; 10% silt; dense; moist; no staining; no odor	AOC12-1-75 13:15
				SP		

BORING	AOC12-1				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/19/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	745.58		**NORTHING**	6454001.86	
					EASTING	6454001.86	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	27 33 40		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace silt; dense; moist; no staining; no odor	AOC12-1-80 13:20
85	40 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Dark grayish brown (2.5Y 4/4); fine- to medium-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC12-1-85 13:25
90	40 50		■	SP	POORLY GRADED SAND - Dark grayish brown (2.5Y 4/2); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC12-1-90 13:30 AOC12-1-90-DUP 13:31
95	40 50		☒		No recovery @ 95 feet bg; sampler bouncing on gravel/cobbles; cobbles in cuttings	
100	45 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; 10% silt; very dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC13-1-100 13:48
105						
110						
115						

BORING	AOC13-1				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/11/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	729.87		**NORTHING**	1897129.45	
					EASTING	6454841.10	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Boring hand-augered to 5 feet bgs	
5	10 10 12		■	SP	POORLY GRADED SAND - Olive (5Y 5/4); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; trace silt; medium dense; damp; no staining; no odor	AOC13-1-5 10:46
10	4 5 7		■	SW	WELL GRADED SAND - Olive brown (5Y 4/4); fine- to coarse-grained sand; 5% fine-grained, subangular to subrounded gravel; loose; moist; no staining; no odor	AOC13-1-10 10:50
15	18 23 27		■	SW	WELL GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC13-1-15 10:55
20	30 15 20		■	SW	WELL GRADED SAND - Olive (5Y 5/4); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC13-1-20 11:04
25	17 23 25		■	SP	POORLY GRADED SAND - Olive (5Y 5/4); fine- to medium-grained sand; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC13-1-25 11:10
30	20 25 27		■	SP	POORLY GRADED SAND - Olive (5Y 5/4); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC13-1-30 11:15
35	23 30 35		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC13-1-35 11:21

BORING	AOC13-1				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/11/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	729.87		**NORTHING**	1897129.45	
					EASTING	6454841.1	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	35 50		X		No recovery @ 40 feet bg	
45	50		X		No recovery @ 45 feet bg; sampler bouncing on gravel/cobbles	
50	45 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Pale olive (5Y 6/3); fine-grained sand; 10% silt; 10% medium- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC13-1-50 11:51
55	45 50		■	SM	SILTY SAND - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 15% silt; trace fine-grained gravel; very dense; moist; no staining; no odor	AOC13-1-55 11:58
60	45 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine-grained, subrounded gravel; very dense; moist; no staining; no odor	AOC13-1-60 12:03
65	20 20 20		■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; medium dense; moist; no staining; no odor	AOC13-1-65 13:20
70	40 50		■	SM	SILTY SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 15% silt; trace fine-grained gravel; very dense; moist; no staining; no odor	AOC13-1-70 13:29
75	40 50		■	SM	SILTY SAND - Olive (5Y 4/3); fine- to medium-grained sand; 45% silt; very dense; moist; no staining; no odor	AOC13-1-75 13:39
				SP-SM		

BORING	AOC13-1				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/11/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	729.87		**NORTHING**	6454841.1	
					EASTING	6454841.1	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	30 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 5/3); fine- to medium-grained sand; 10% silt; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC13-1-80 13:48
85	35 50		■	SP-SM	POORLY GRADED SAND WITH SILT AND GRAVEL - Olive (5Y 4/4); fine- to medium-grained sand; 5% silt; 20% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC13-1-85 14:00
90	40 50		■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC13-1-90 14:06
95	35 50		■	SM	SILTY SAND - Olive (5Y 4/4); fine- to medium-grained sand; 15% silt; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC13-1-95 14:29
100	45 50		■	SM	SILTY SAND - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 25% silt; 10% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout	AOC13-1-100 14:43 AOC13-1-100-DUP 14:44
105						
110						
115						

BORING	AOC13-2				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/12/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	728.97		**NORTHING**	1897168.06	
					EASTING	6454886.51	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Boring hand-augered to 5 feet bgs	
5	15 17 21		■	SW	WELL GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC13-2-5 7:02
10	23 25 40		■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC13-2-10 7:09
15	25 50		■	SW	WELL GRADED SAND - Olive (5Y 4/3); fine- to coarse-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC13-2-15 7:16
20	29 30 33		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to coarse-grained sand; dense; moist; no staining; no odor	AOC13-2-20 7:20
25	20 24 30		■	SP	POORLY GRADED SAND - Olive (5Y 4/3); fine- to medium-grained sand; 5% fine-grained, subrounded gravel; dense; moist; no staining; no odor	AOC13-2-25 7:24
30	27 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine-grained, subrounded gravel; dense; moist; no staining; no odor	AOC13-2-30 7:26
35	35 31 30		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC13-2-35 7:31

BORING	AOC13-2				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/12/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	728.97		**NORTHING**	1897168.06	
					EASTING	6454886.51	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	30 30 30			SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 5/3); medium- to coarse-grained sand; 20% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC13-2-40 7:37
45	35 50			SW	WELL GRADED SAND - Olive brown (2.5Y 4/4); fine- to coarse-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC13-2-45 7:43
50	40 50			SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 4/4); fine- to medium-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC13-2-50 7:46
55	35 50			SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 4/4); fine- to medium-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC13-2-55 7:53
60	35 50			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; 5% fine-grained, subrounded gravel; dense; moist; no staining; no odor	AOC13-2-60 7:59
65	30 50			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; trace fine-grained gravel; trace silt; dense; moist; no staining; no odor Geotechnical sample @ 66.5 feet bgs (AOC13-2-66.5; 8:11)	AOC13-2-65 8:09
70	27 35 40			SW	WELL GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC13-2-70 8:24
75	20 50			SW	WELL GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC13-2-75 8:35

BORING	AOC13-2				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/12/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	728.97		**NORTHING**	1897168.06	
					EASTING	6454886.51	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50				No recovery @ 80 feet bgs; sampler bouncing on gravel/cobbles Rig chatter @ 82 feet bgs	
85	40 50			SP-SM	POORLY GRADED SAND WITH SILT AND GRAVEL - Olive gray (5Y 5/2); fine- to medium-grained sand; 5% silt; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC13-2-85 9:07
90	25 50			SP	POORLY GRADED SAND WITH GRAVEL - Olive gray (5Y 5/2); fine- to medium-grained sand; 40% fine- to medium-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC13-2-90 9:13
95	40 50			SP	POORLY GRADED SAND WITH GRAVEL - Olive gray (5Y 4/2); fine- to coarse-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel; trace silt; very dense; moist; no staining; no odor; abundant dark minerals	AOC13-2-95 9:20
100	40 50			SM	SILTY SAND WITH SAND - Olive (5Y 4/3); fine- to medium-grained sand; 15% silt; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout	AOC13-2-100 9:28 AOC13-2-100-DUP 9:30
105						
110						
115						

BORING	AOC14-1				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/15/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	717.88		**NORTHING**	1896487.13	
					EASTING	6455628.69	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Boring hand-augered to 5 feet bgs	
5	13 15 22			SP	POORLY GRADED SAND - Light yellowish brown (2.5Y 6/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC14-1-5 8:55
10	31 50			SP	POORLY GRADED SAND - Grayish brown (2.5Y 4/2); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC14-1-10 9:00
15	50			SP	POORLY GRADED SAND - Grayish brown (2.5Y 4/2); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC14-1-15 9:05
20	33 50			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; very dense; moist; no staining; no odor	AOC14-1-20 9:10
25	22 50			SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC14-1-25 9:15 AOC14-1-25-DUP 9:16
30	35 50			SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC14-1-30 9:20
35	50			SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC14-1-35 9:30

BORING	AOC14-1				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/15/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	717.88		**NORTHING**	1896487.13	
					EASTING	6455628.69	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50			SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC14-1-40 9:40
45	50			SP-SM	POORLY GRADED SAND WITH SILT - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% silt; dense; moist; no staining; no odor	AOC14-1-45 9:50
50	50			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC14-1-50 9:55
55	50			SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC14-1-55 10:05
60	50			SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC14-1-60 10:15
65	50 34 50			SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor Rig chatter @ 67 feet bgs	AOC14-1-65 10:25
70	50			SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/4); fine- to coarse-grained sand; 15% fine- to coarse-grained, subangular to subrounded gravel; dense; trace silt; moist; no staining; no odor	AOC14-1-70 10:35 AOC14-1-70-DUP 10:34
75	50			SW-SM	WELL GRADED SAND WITH SILT AND GRAVEL - Olive brown (2.5Y 4/4); fine- to coarse-grained sand; 25% fine- to coarse-grained, subangular to subrounded gravel; 5% silt; dense; moist; no staining; no odor Geotechnical sample @ 75 feet bgs (AOC14-1-75; 10:40)	AOC14-1-75 10:40

BORING	AOC14-1			**PAGE**	3	**OF**	3
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National	**DATE**	9/15/2014		
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister	**REVIEW BY**	M Weinberger		
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger	**PG #**	8286		
SAMPLE METHOD	Calif. Drive	**ELEVATION**	717.88	**NORTHING**	6455628.69		
				EASTING	6455628.69		

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC14-1-80 10:45
85	50		⊠		No recovery @ 85 feet bgs; sampler bouncing on gravel/cobbles Rig chatter @ 86 feet bgs	
90	50		■	GP	POORLY GRADED SANDY GRAVEL - Dark grayish brown (2.5Y 4/2); fine- to coarse-grained, subangular to subrounded gravel; 45% fine- to medium-grained sand; dense; moist; no staining; no odor	AOC14-1-90 11:10
95	50		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 35% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC14-1-95 11:30
100	50		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout	AOC14-1-100 11:40
105						
110						
115						

BORING	AOC15-1					**PAGE**	1 **OF** 3
CLIENT	Lockheed Martin		**DRILL CONTRACTOR**	National		**DATE**	9/11/2014
PROJECT	Burbank Metal Inv.		**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger
BOREHOLE DIAMETER	8 inches		**DRILL METHOD**	Hollow-stem auger		**PG #**	8286
SAMPLE METHOD	Calif. Drive		**ELEVATION**	715.60		**NORTHING**	1896206.8
						EASTING	6455760.21

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface	
					Boring hand-augered to 5 feet bgs	
5	5 5 5		■	SP-SM	POORLY GRADED SAND WITH SILT - Dark grayish brown (2.5Y 4/2); fine-grained sand; 10% silt; loose; moist; no staining; no odor	AOC15-1-5 9:47
10	18 20 23		■	SW	WELL GRADED SAND - Light olive brown (2.55Y 5/3); fine- to coarse-grained sand; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC15-1-10 9:52
15	20 25 50		■	SP	POORLY GRADED SAND - Light olive brown (2.55Y 5/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC15-1-15 9:55
20	15 20 50		■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 15% silt; 10% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC15-1-20 9:59
25	12 14 16		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; 5% fine- to coarse-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC15-1-25 10:04
30	37 30 40		■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC15-1-30 10:08
35	17 26 33		■	SW	WELL GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; dense; moist; no staining; no odor	AOC15-1-35 10:13

BORING	AOC15-1				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/11/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	715.60		**NORTHING**	1896206.8	
					EASTING	6455760.21	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	21 27 30		■	SP	POORLY GRADED SAND - Olive (5Y 4/4); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC15-1-40 10:22
45	20 40 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC15-1-45 10:26
50	20 50		■	SW	WELL GRADED SAND - Brown (10YR 4/3); fine- to coarse-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC15-1-50 10:36
55	33 50		■	SW	WELL GRADED SAND - Yellowish brown (10YR 5/4); fine- to coarse-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC15-1-55 10:41
60	40 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 20% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC15-1-60 10:49
65	35 50		■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; very dense; moist; no staining; no odor	AOC15-1-65 10:53
70	30 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); medium- to coarse-grained sand; 30% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC15-1-70 10:59
75	37 50		■	SW	WELL GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Rig chatter @ 77 feet bgs	AOC15-1-75 11:11

BORING	AOC15-1				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/11/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	715.60		**NORTHING**	6455760.21	
					EASTING	6455760.21	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	40 50		■	SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC15-1-80 11:21
85	38 50		■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; trace fine-grained gravel; very dense; moist; no staining; no odor; abundant dark minerals	AOC15-1-85 11:28
90	40 50		■	SP-SM	POORLY GRADED SAND WITH SILT- Dark olive brown (2.%Y 3/3); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; 5% silt; very dense; moist; no staining; no odor	AOC15-1-90 11:35
95	38 50		■	SM	SILTY SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel; 15% silt; very dense; moist; no staining; no odor	AOC15-1-95 11:38
100	35 50		■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 15% silt; trace fine-grained gravel; very dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC15-1-100 11:44
105						
110						
115						

BORING	AOC16-1				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/12/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	717.40		**NORTHING**	1895784.78	
					EASTING	6455378.70	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Boring hand-augered to 5 feet bgs	
5	30 35 25		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 4/4); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; 5% silt; dense; damp; no staining; no odor	AOC16-1-5 11:57
10	12 16 20		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 5/4); fine- to medium-grained sand; 15% medium- to coarse-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC16-1-10 12:00
15	14 20 23		■	SW	WELL GRADED SAND - Pale olive (5Y 6/4); fine- to coarse-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC16-1-15 12:03
20	17 20 25		■	SW	WELL GRADED SAND WITH GRAVEL - Olive (5Y 5/4); fine- to coarse-grained sand; 15% fine- to coarse-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC16-1-20 12:07
25	18 25 27		■	SW	WELL GRADED SAND WITH GRAVEL - Olive (5Y 5/4); fine- to coarse-grained sand; 20% medium- to coarse-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC16-1-25 12:10
30	20 30 33		■	SP	POORLY GRADED SAND WITH GRAVEL - Pale olive (5Y 6/4); medium- to coarse-grained sand; 15% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC16-1-30 12:15
35	14 17 20		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine-grained sand; 10% silt; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC16-1-35 12:18
				SP		

BORING	AOC16-1				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/12/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	717.40		**NORTHING**	1895784.78	
					EASTING	6455378.70	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	15 24 26		■	SP	POORLY GRADED SAND - Olive (5Y 5/4); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC16-1-40 12:22
45	20 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; 10% silt; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC16-1-45 12:26
50	27 50		■	SW	WELL GRADED SAND - Olive (5Y 5/4); fine- to coarse-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC16-1-50 12:30
55	23 35 40		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC16-1-55 12:35
60	25 28 27		■	SW	WELL GRADED SAND - Olive (5Y 5/4); fine- to coarse-grained sand; 5% fine-grained, subrounded gravel; dense; moist; no staining; no odor	AOC16-1-60 12:41
65	17 28 40		■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; trace fine-grained gravel; trace silt; dense; moist; no staining; no odor	AOC16-1-65 12:46
70	18 27 30		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; 10% fine- to coarse-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC16-1-70 12:51
75	25 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; 10% fine- to coarse-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC16-1-75 12:57

BORING	AOC16-1				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/12/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	717.40		**NORTHING**	1895784.78	
					EASTING	6455378.70	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	20 50		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 10% fine- to coarse-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC16-1-80 13:00
85	40 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive (5Y 5/4); fine- to medium-grained sand; 20% medium- to coarse-grained, subangular to subrounded gravel; trace silt; very dense; moist; no staining; no odor	AOC16-1-85 13:05
90	35 50		■	SW	WELL GRADED SAND WITH GRAVEL - Brown (10YR 4/3); fine- to coarse-grained sand; 35% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC16-1-90 13:10
95	40 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Yellowish brown (10YR 5/6); fine- to medium-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel; trace silt; very dense; moist; no staining; no odor	AOC16-1-95 13:15
100	35 50		■	SM	SILTY SAND WITH GRAVEL - Dark yellowish brown (10YR 4/4); fine- to medium-grained sand; 20% silt; 20% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout	AOC16-1-100 13:19
105						
110						
115						

BORING	AOC16-2				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/12/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	717.01		**NORTHING**	1895777.08	
					EASTING	6455495.71	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Boring hand-augered to 5 feet bgs	
5	21 50		■	SM	SILTY SAND - Grayish brown (2.5Y 5/2); fine-grained sand; 15% silt; dense; moist; no staining; no odor	AOC16-2-5 9:04
10	35 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 10% silt; 5% fine-grained, subrounded gravel; very dense; moist; no staining; no odor	AOC16-2-10 9:10
15	32 20 28		■ ■	SP-SM	POORLY GRADED SAND WITH SILT - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 10% silt; dense; moist; no staining; no odor	AOC16-2-15 9:15 AOC16-2-15-DUP 9:16
20	50		■	SP	POORLY GRADED SAND - Dark grayish brown (2.5Y 4/2); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC16-2-20 9:20
25	50		■	SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC16-2-25 9:25
30	50		■	SP	POORLY GRADED SAND WITH GRAVEL - Grayish brown (2.5Y 5/2); fine- to medium-grained sand;1 5% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC16-2-30 9:35
35	50		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC16-2-35 9:35

BORING	AOC16-2				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/12/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	717.01		**NORTHING**	1895777.08	
					EASTING	6455495.71	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50			SP	POORLY GRADED SAND - Light yellowish brown (2.5Y 6/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC16-2-40 9:40
45	25 32 40			SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 25% silt; dense; moist; no staining; no odor	AOC16-2-45 9:45
50	42 31 40			SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/3); fine-grained sand; 10% silt; dense; moist; no staining; no odor	AOC16-2-50 10:00
55	28 50			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace silt; dense; moist; no staining; no odor	AOC16-2-55 10:05
60	32 50			SW	WELL GRADED SAND - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; 5% fine-grained, subrounded gravel; dense; moist; no staining; no odor	AOC16-2-60 10:10
65	50			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine-grained, subrounded gravel; dense; moist; no staining; no odor	AOC16-2-65 10:15 AOC16-2-65-DUP 10:16
70	50			SP	POORLY GRADED SAND - Light yellowish brown (2.5Y 6/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC16-2-70 10:20
75	50			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); medium- to coarse-grained sand; 5% fine-grained, subrounded gravel; dense; moist; no staining; no odor	AOC16-2-75 10:35
				SM		

BORING	AOC16-2				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/12/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	717.01		**NORTHING**	6455495.71	
					EASTING	1895777.08	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	45 30 42			SM	SILTY SAND - Dark yellowish brown (10YR 3/4); fine-grained sand; 20% silt; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC16-2-80 10:45
85	50			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC16-2-85 10:50
90	50				No recovery @ 90 feet bgs; sampler bouncing on gravel/cobbles Rig chatter @ 92 feet bgs	
95	50				No recovery @ 95 feet bgs; sampler bouncing on gravel/cobbles; cobbles in cuttings	
100	100			SP	POORLY GRADED SAND WITH GRAVEL - Light yellowish brown (2.5Y 6/3); fine- to medium-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout	AOC16-2-100 11:10
105						
110						
115						

BORING	AOC17-1				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/18/2014 - 9/19/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	729.36		**NORTHING**	1897284.61	
					EASTING	6455314.95	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface Boring hand-augered to 5 feet bgs	
5	12 31 14		■	SP	POORLY GRADED SAND WITH GRAVEL - Pale brown (10YR 6/3); fine- to medium-grained sand; 15% fine- to medium-grained gravel; dense; damp; no staining; no odor	AOC17-1-5 15:49
10	33 50		■	SW	WELL GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; 20% fine- to medium-grained gravel; very dense; moist; no staining; no odor	AOC17-1-10 15:55
15	50		■	SW	WELL GRADED SAND - Light yellowish brown (10YR 6/4); fine- to coarse-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC17-1-15 16:00
20	50		■	SW	WELL GRADED SAND WITH GRAVEL - Light yellowish brown (10YR 6/4); fine- to coarse-grained sand; 20% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC17-1-20 16:05
25	35 50		■	SW	WELL GRADED SAND WITH GRAVEL - Pale brown (10YR 6/3); fine- to coarse-grained sand; 15% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC17-1-25 16:19
30	50		■	SP-SM	POORLY GRADED SAND WITH SILT - Brown (7.5YR 5/4); fine- to medium-grained sand; 5% silt; 5% fine-grained, subrounded gravel; dense; moist; no staining; no odor	AOC17-1-30 16:30
35	37 50		■	SP	POORLY GRADED SAND - Brown (7.5YR 5/4); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC17-1-35 16:36

BORING	AOC17-1				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/18/2014 - 9/19/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	729.36		**NORTHING**	1897284.61	
					EASTING	6455314.95	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	32 50		■	SP	POORLY GRADED SAND - Pale brown (10YR 6/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC17-1-40 16:40
45	38 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; very dense; moist; no staining; no odor	AOC17-1-45 8:00
50	32 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine-grained sand; dense; moist; no staining; no odor	AOC17-1-50 8:05
55	32 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Brown (7.5YR 5/4); medium- to coarse-grained sand; 15% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC17-1-55 8:16
60	50		■	SW	WELL GRADED SAND- Brown (7.5YR 5/4); fine- to coarse-grained sand; dense; moist; no staining; no odor	AOC17-1-60 8:21
65	50		■	SP	POORLY GRADED SAND- Olive (5Y 5/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC17-1-65 8:28
70	41 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Pale olive (5Y 6/3); medium- to coarse-grained sand; 25% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC17-1-70 8:40
75	42 50		■	SW	WELL GRADED SAND WITH GRAVEL - Yellowish brown (10YR 5/4); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC17-1-75 8:45

BORING	AOC17-1			**PAGE**	3 **OF** 3
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National	**DATE**	9/18/2014 - 9/19/2014
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson	**REVIEW BY**	M Weinberger
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger	**PG #**	8286
SAMPLE METHOD	Calif. Drive	**ELEVATION**	729.36	**NORTHING**	1897284.61
				EASTING	6455314.95

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	42 50			SW	WELL GRADED SAND - Yellowish brown (10YR 5/4); fine- to coarse-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC17-1-80 9:02
85	50				No recovery @ 85 feet bg; sampler bouncing on gravel/cobbles; rig chatter	
90	50			SW	WELL GRADED SAND WITH GRAVEL - Olive (5Y 5/3); fine- to coarse-grained sand; 25% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC17-1-90 9:10
95	50			SP	POORLY GRADED SAND WITH GRAVEL - Dark yellowish brown (10YR 4/4); fine- to medium-grained sand; 15% fine- to coarse-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC17-1-95 9:15
100	50 50			SM	SILTY SAND - Dark yellowish brown (10YR 4/4); fine- to coarse-grained sand; 20% silt; 10% fine-grained gravel; dense; moist; no staining; no odor Geotechnical sample @ 101 feet bgs (AOC17-1-101; 9:23) Total depth 101 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC17-1-100 9:21
105						
110						
115						

BORING	AOC17-2				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/18/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	728.24		**NORTHING**	1897323.82	
					EASTING	6455506.62	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface	
					Boring hand-augered to 5 feet bgs	
5	20 26 30		■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC17-2-5 8:37
10	20 28 21		■	SW	WELL GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC17-2-10 8:43
15	50		■	SP	POORLY GRADED SAND WITH GRAVEL - Dark yellowish brown (10YR 4/4); fine- to medium-grained sand; 15% fine-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC17-2-15 8:49
20	21 22 28		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 10% silt; 10% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC17-2-20 8:56
25	15 16 27		■	SM	SILTY SAND - Very dark olive brown (2.5Y 3/3); fine- to coarse-grained sand; 20% silt; medium dense; moist; no staining; no odor	AOC17-2-25 9:08
30	15 16 50		■	SW	WELL GRADED SAND - Dark yellowish brown (10YR 4/4); fine- to coarse-grained sand; trace silt; trace fine- to medium-grained gravel; dense; moist; no staining; no odor	AOC17-2-30 9:12
35	18 26 29		■	SP	POORLY GRADED SAND - Yellowish brown (10YR 5/4); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC17-2-35 9:26

BORING	AOC17-2				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/18/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	728.24		**NORTHING**	1897323.82	
					EASTING	6455506.62	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	18 26 24		■	SP	POORLY GRADED SAND - Light yellowish brown (10YR 6/4); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC17-2-40 9:30
45	26 50		■	SP	POORLY GRADED SAND - Light yellowish brown (10YR 6/4); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC17-2-45 9:37
50	34 50		■	SP	POORLY GRADED SAND - Brown (7.5YR 5/4); fine- to medium-grained sand; trace silt; 5% fine-grained, subrounded gravel; dense; moist; no staining; no odor	AOC17-2-50 9:43
55	29 35 50		■	SP	POORLY GRADED SAND - Brown (7.5YR 5/4); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; trace silt; very dense; moist; no staining; no odor	AOC17-2-55 9:53
60	29 50		■	SP	POORLY GRADED SAND- Brown (7.5YR 5/4); medium- to coarse-grained sand; 5% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC17-2-60 9:58
65	32 50		■	SP	POORLY GRADED SAND- Yellowish brown (10YR 5/4); fine- to medium-grained sand; 5% fine- to medium-grained gravel; dense; moist; no staining; no odor	AOC17-2-65 10:03
70	19 32 40		■	SW	WELL GRADED SAND WITH GRAVEL - Yellowish brown (10YR 5/4); fine- to coarse-grained sand; 25% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC17-2-70 10:13
75	19 24 29		■	SW	WELL GRADED SAND WITH GRAVEL - Olive gray (5Y 5/2); fine- to coarse-grained sand; 45% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; slight oxidation staining; staining; no odor	AOC17-2-75 10:22
				SM		

BORING	AOC17-2				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/18/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	728.24		**NORTHING**	1897323.82	
					EASTING	6455506.62	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	16 17 12			SM	SILTY SAND - Dark yellowish brown (10YR 3/4); fine- to medium-grained sand; 30% silt; very dense; moist; no staining; no odor	AOC17-2-80 10:29
85	29 50			SP	POORLY GRADED SAND - Brown (7.5YR 5/4); fine- to medium-grained sand; trace silt; trace fine-grained gravel; very dense; moist; no staining; no odor	AOC17-2-85 10:38
90	50			SW-SM	WELL GRADED SAND WITH SILT AND GRAVEL - Brown (7.5YR 4/4); fine- to coarse-grained sand; 25% fine- to medium-grained, subangular to subrounded gravel; 5% silt; dense; moist; no staining; no odor	AOC17-2-90 10:44
95	50			SW-SM	WELL GRADED SAND WITH SILT AND GRAVEL - Olive brown (2.5Y 4/4); fine- to coarse-grained sand; 20% fine- to medium-grained, subangular to subrounded gravel; 5% silt; dense; moist; no staining; no odor	AOC17-2-95 10:55
100	28 50			SM	SILTY SAND WITH GRAVEL - Olive brown (2.5Y 4/4); fine- to coarse-grained sand; 20% fine- to medium-grained, subangular to subrounded gravel; 15% silt; dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC17-2-100 10:59
105						
110						
115						

BORING	AOC18-1				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/17/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	726.86		**NORTHING**	1896670.39	
					EASTING	6455475.24	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface	
					Boring hand-augered to 5 feet bgs	
5	23 50		■	SM	SILTY SAND - Dark olive brown (2.5Y 3/3); fine-grained sand; 30% silt; trace fine-grained gravel; dense; moist; no staining; no odor	AOC18-1-5 9:15
10	15 20 25		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; medium dense; moist; no staining; no odor	AOC18-1-10 9:17
15	10 20 25		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC18-1-15 9:28
20	20 25 28		■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; 10% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-1-20 9:33
25	25 25 30		■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC18-1-25 9:38
30	40 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); medium- to coarse-grained sand; 15% fine- to medium-grained gravel; very dense; moist; no staining; no odor	AOC18-1-30 9:45
35	17 24 30		■	SP	POORLY GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); medium- to coarse-grained sand; 15% fine- to medium-grained gravel; very dense; moist; no staining; no odor	AOC18-1-35 9:49

BORING	AOC18-1				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/17/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	726.86		**NORTHING**	1896670.39	
					EASTING	6455475.24	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	28 30 30			SP	POORLY GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); medium- to coarse-grained sand; 15% fine- to medium-grained gravel; dense; moist; no staining; no odor	AOC18-1-40 9:52 AOC18-1-40-DUP 9:55
45	24 27 32			SW	WELL GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; 15% fine- to medium-grained gravel; dense; moist; no staining; no odor	AOC18-1-45 10:00
50	25 42 50			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine- to medium-grained gravel; very dense; moist; no staining; no odor	AOC18-1-50 10:04
55	25 27 30			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC18-1-55 10:09
60	26 50			SP	POORLY GRADED SAND - Grayish brown (2.5Y 4/2); medium- to coarse-grained sand; 10% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-1-60 10:12
65	33 40 43			SP	POORLY GRADED SAND WITH GRAVEL - Dark grayish brown (2.5Y 4/2); medium- to coarse-grained sand; 25% fine to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC18-1-65 10:18
70	25 40 40			SP	POORLY GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 15% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-1-70 10:22
75	28 27 40			SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-1-75 10:30

BORING	AOC18-1				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/17/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	726.86		**NORTHING**	1896670.39	
					EASTING	6455475.24	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	40 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; very dense; moist; no staining; no odor	AOC18-1-80 10:34
85	27 50		■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 20% silt; dense; moist; no staining; no odor	AOC18-1-85 10:40
90	40 50		☒	SP	No recovery @ 90 feet bgs; sampler bouncing on gravel/cobbles	
95	25 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 10% silt; dense; moist; no staining; no odor	AOC18-1-95 11:00 AOC18-1-95-DUP 11:01
100	40 50		■	SP	POORLY GRADED SAND - Grayish brown (2.5Y 4/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout and capped with cement	AOC18-100 11:12
105						
110						
115						

BORING	AOC18-2				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/15/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	725.71		**NORTHING**	1896580.73	
					EASTING	6455508.13	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Boring hand-augered to 5 feet bgs	
5	13 13 14		■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 35% silt; medium dense; moist; no staining; no odor	AOC18-2-5 14:50
10	11 14 18		■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 25% silt; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC18-2-10 15:00
15	17 28 47		■	SP	POORLY GRADED SAND WITH GRAVEL - Dark grayish brown (2.5Y 4/2); medium- to coarse-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-2-15 15:10 AOC18-2-15-DUP 15:11
20	37 50 28		■	SP	POORLY GRADED SAND WITH GRAVEL - Dark grayish brown (2.5Y 4/2); medium- to coarse-grained sand; 25% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC18-2-20 15:15
25	32 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/4); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-2-25 15:20
30	50		■	SW	WELL GRADED SAND WITH GRAVEL - Grayish brown (2.5Y 5/2); fine- to coarse-grained sand; 15% fine- to coarse-grained gravel; dense; moist; no staining; no odor	AOC18-2-30 15:22
35	34 50		■	SW	WELL GRADED SAND - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; trace fine-grained gravel; very dense; moist; no staining; no odor	AOC18-2-35 15:25
				SP		

BORING	AOC18-2				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/15/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	725.71		**NORTHING**	1896580.73	
					EASTING	6455508.13	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	33 50		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC18-2-40 15:28
45	26 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; very dense; moist; no staining; no odor	AOC18-2-45 15:35
50	50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC18-2-50 15:38
55	26 50		■	SM	SILTY SAND - Olive brown (2.5Y 4/4); fine-grained sand; 40% silt; dense; moist; no staining; no odor	AOC18-2-55 15:40
60	36 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 25% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-2-60 15:42
65	50		■	SW	WELL GRADED SAND - Dark grayish brown (2.5Y 5/2); fine- to coarse-grained sand; 10% fine to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC18-2-65 16:10 AOC18-2-65-DUP 16:12
70	50		■	SP	POORLY GRADED SAND - Dark grayish brown (2.5Y 5/2); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC18-2-70 16:15
75	50		■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC18-2-75 16:20

BORING	AOC18-2				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/15/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	725.71		**NORTHING**	1896580.73	
					EASTING	6455508.13	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50		■	SW	WELL GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-2-80 16:30
85	16 25 50		■	SM	SILTY SAND - Dark grayish brown (2.5Y 4/2); fine- to medium-grained sand; 25% silt; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-2-85 16:40
90	50		■	SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 10% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-2-90 16:45
95	50		■	SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 10% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-2-95 16:50
100	50		■	SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 10% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout	AOC18-100 17:00
105						
110						
115						

BORING	AOC18-3				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/17/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	723.95		**NORTHING**	1896503.28	
					EASTING	6455519.05	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Boring hand-augered to 5 feet bgs	
5	37 50		■	SM	SILTY SAND - Dark grayish brown (2.5Y 4/2); fine-grained sand; 20% silt; trace fine-grained gravel; very dense; moist; no staining; no odor	AOC18-3-5 11:14
10	12 25 27		■	SP-SM	POORLY GRADED SAND WITH SILT - Dark yellowish brown (10YR 4/4); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC18-3-10 11:20
15	34 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive gray (5Y 5/2); fine- to medium-grained sand; 20% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-3-15 11:26
20	24 50		■	SP	POORLY GRADED SAND - Pale olive (5Y 6/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC18-3-20 11:30
25	50		■	SW	WELL GRADED SAND WITH GRAVEL - Dark grayish brown (2.5Y 4/2); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; trace silt; dense; moist; no staining; no odor	AOC18-3-25 11:35
30	27 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-3-30 11:39
35	38 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/4); fine- to medium-coarse sand; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC18-3-35 11:43
				SW		

BORING	AOC18-3				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/17/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	723.95		**NORTHING**	1896503.28	
					EASTING	6455519.05	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	30 50			SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-3-40 11:49
45	50			SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-3-45 11:55
50	50			SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-3-50 12:00
55	50			SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC18-3-55 12:09 AOC18-3-55-DUP 12:10
60	50			SW	WELL GRADED SAND- Olive (5Y 5/3); fine- to coarse-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC18-3-60 12:16
65	50			SP	POORLY GRADED SAND- Brown (10YR 4/3); fine- to medium-grained sand; 10% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-3-65 12:20
70	50			SP	POORLY GRADED SAND- Brown (10YR 5/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC18-3-70 12:26
75	50			SP	POORLY GRADED SAND- Brown (10YR 4/3); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-3-75 12:31

BORING	AOC18-3				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/17/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	723.95		**NORTHING**	1896503.28	
					EASTING	6455519.05	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50		■	SP	POORLY GRADED SAND WITH GRAVEL- Brown (10YR 4/3); medium- to coarse-grained sand; 45% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC18-3-80 12:38
85	45 50		■	GP	POORLY GRADED SANDY GRAVEL - Grayish brown (2.5Y 5/2); medium- to coarse-grained, subangular to subrounded gravel; 40% fine- to coarse-grained sand; very dense; moist; no staining; no odor	AOC19-2-85 11:56 AOC19-2-85-DUP 11:57
90	25 50		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC19-2-90 12:01
95	50		■	SP-SM	POORLY GRADED SAND WITH SILT - Light olive brown (2.5Y 5/3); fine-grained sand; 10% silt; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC19-2-95 12:01
100	45 50		■	SM	SILTY SAND - Light gray (2.5Y 7/2); fine-grained sand; 20% silt; 10% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC19-2-100 12:12
105						
110						
115						

BORING	AOC19-1				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/17/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	727.32		**NORTHING**	1896824.55	
					EASTING	6455350.67	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface Boring hand-augered to 5 feet bgs	
5	4 6 6		■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 35% silt; very loose; moist; no staining; no odor	AOC19-1-5 14:05
10	12 17 23		■	SP	POORLY GRADED SAND - Light yellowish brown (2.5Y 6/3); fine- to medium-grained sand; trace fine-grained gravel; medium dense; moist; no staining; no odor	AOC19-1-10 14:07
15	17 23 27		■	SW	WELL GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC19-1-15 14:12
20	24 20 43		■	SW	WELL GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; 20% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC19-1-20 14:12
25	40 50		■	SP	POORLY GRADED SAND - Light yellowish brown (2.5Y 6/3); fine- to medium-grained sand; trace fine-grained gravel; very dense; moist; no staining; no odor	AOC19-1-25 14:15
30	23 25 30		■	SP	POORLY GRADED SAND - Light yellowish brown (2.5Y6/3); fine- to medium-grained sand; trace fine-grained gravel; very dense; moist; no staining; no odor	AOC19-1-30 14:17
35	25 25 30		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine-grained gravel; dense; moist; no staining; no odor; scattered dark minerals	AOC19-1-35 14:20 AOC19-1-35-DUP 14:21

BORING	AOC19-1				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/17/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	727.32		**NORTHING**	1896824.55	
					EASTING	6455350.67	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	20 25 38		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine-grained gravel; dense; moist; no staining; no odor; scattered dark minerals	AOC19-1-40 14:40
45	18 23 25		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; medium dense; moist; no staining; no odor	AOC19-1-45 14:44
50	15 17 20		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; medium dense; moist; no staining; no odor	AOC19-1-50 14:50
55	25 30 33		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC19-1-55 14:52
60	20 23 25		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); medium- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC19-1-60 14:55
65	45 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); medium- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC19-1-65 15:00 AOC19-1-65-DUP 15:01
70	34 42 43		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); medium- to coarse-grained sand; 25% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC19-1-70 15:05
75	40 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 6/3); fine- to medium-grained sand; 10% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC19-1-75 15:07

BORING	AOC19-1				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/17/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	727.32		**NORTHING**	1896824.55	
					EASTING	6455350.67	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	42 50		■	SW	WELL GRADED SAND WITH GRAVEL - Grayish brown (2.5Y 5/2); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC19-1-80 15:09
85	40 50		☒		No recovery @ 85 feet bgs; sampler bouncing on gravel/cobbles; rig chatter; cobbles in cuttings	
90	40 50		☒		No recovery @ 90 feet bgs; sampler bouncing on gravel/cobbles; rig chatter	
95	40 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 5% silt; very dense; moist; no staining; no odor	AOC19-1-95 15:46
100	45 50		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC19-1-100 15:48
105						
110						
115						

BORING	AOC19-2				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/18/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	727.51		**NORTHING**	1896814.27	
					EASTING	6455476.68	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface	
					Boring hand-augered to 5 feet bgs	
5	7 8 10		■	SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; trace silt; loose; moist; no staining; no odor	AOC19-2-5 10:25
10	12 17 23		■	SP	POORLY GRADED SAND - Grayish brown (2.5Y 5/2); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC19-2-10 10:30
15	18 27 32		■	SP	POORLY GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 20% medium- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC19-2-15 10:35
20	23 33 37		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC19-2-20 10:48
25	33 35 40		■	SW	WELL GRADED SAND WITH GRAVEL - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; 15% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC19-2-25 10:50
30	27 32 35		■	SP	POORLY GRADED SAND - Dark grayish brown (2.5Y 4/2); fine- to medium-grained sand; dense; moist; no staining; no odor	AOC19-2-30 10:56 AOC19-2-30-DUP 10:57
35	10 15 20		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; medium dense; moist; no staining; no odor	AOC19-2-35 11:00
				SW		

BORING	AOC19-2				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/18/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	727.51		**NORTHING**	1896814.27	
					EASTING	6455476.68	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	16 20 24		■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; trace fine- to medium-grained gravel; medium dense; moist; no staining; no odor	AOC19-2-40 11:05
45	20 25 25		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine-grained sand; trace silt; dense; moist; no staining; no odor	AOC19-2-45 11:12
50	19 27 33		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC19-2-50 11:15
55	35 50		■	SP	POORLY GRADED SAND- Olive brown (2.5Y 4/3); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC19-2-55 11:20
60	45 50		■	SP	POORLY GRADED SAND- Olive brown (2.5Y 4/3); fine- to coarse-grained sand; 5% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC19-2-60 11:25
65	25 27 40		■	SW	WELL GRADED SAND- Olive brown (2.5Y 4/3); fine- to coarse-grained sand; 5% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC19-2-65 11:30
70	35 50		■	SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; 30% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC19-2-70 11:35
75	20 50		■	SW	WELL GRADED SAND WITH GRAVEL - Olive brown (2.5Y 4/3); fine- to coarse-grained sand; 30% fine- to coarse-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC19-2-75 11:40

BORING	AOC19-2				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/18/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	727.51		**NORTHING**	1896814.27	
					EASTING	6455476.68	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	25 50		X	GP	No recovery @ 80 feet bg; sampler bouncing on gravel/cobbles; rig chatter	
85	45 50		■	GP	POORLY GRADED SANDY GRAVEL - Grayish brown (2.5Y 5/2); medium- to coarse-grained, subangular to subrounded gravel; 40% fine- to coarse-grained sand; very dense; moist; no staining; no odor	AOC19-2-85 11:56 AOC19-2-85-DUP 11:57
90	25 50		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC19-2-90 12:01
95	50		■	SP-SM	POORLY GRADED SAND WITH SILT - Light olive brown (2.5Y 5/3); fine-grained sand; 10% silt; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC19-2-95 12:01
100	45 50		■	SM	SILTY SAND - Light gray (2.5Y 7/2); fine-grained sand; 20% silt; 10% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC19-2-100 12:12
105						
110						
115						

BORING	AOC20-1					**PAGE**	1 **OF** 3
CLIENT	Lockheed Martin		**DRILL CONTRACTOR**	National		**DATE**	9/16/2014
PROJECT	Burbank Metal Inv.		**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger
BOREHOLE DIAMETER	8 inches		**DRILL METHOD**	Hollow-stem auger		**PG #**	8286
SAMPLE METHOD	Calif. Drive		**ELEVATION**	736.26		**NORTHING**	1895716.50
						EASTING	6450939.68

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface Boring hand-augered to 5 feet bgs	
5	50		■	SM	SILTY SAND - Dark olive gray (5Y 3/2); fine- to medium-grained sand; 30% silt; 5% fine-grained gravel; dense; moist; no staining; no odor	AOC20-1-5 12:19
10	30 50		■	SW	WELL GRADED SAND WITH GRAVEL - Pale brown (10YR 6/3); fine- to coarse-grained sand; 20% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-1-10 12:29
15	31 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; trace fine- to medium-grained gravel; dense; moist; no staining; no odor	AOC20-1-15 12:34
20	50		■	SP	POORLY GRADED SAND - Olive brown (2.5Y 4/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC20-1-20 12:41
25	50		■	SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-1-25 12:47
30	28 37 50		■	SW	WELL GRADED SAND - Light olive brown (2.5Y 5/3); fine- to coarse-grained sand; 5% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC20-1-30 12:53
35	50		■	SP	POORLY GRADED SAND - Brown (7.5YR 4/3); fine- to medium-grained sand; trace fine- to medium-grained gravel; dense; moist; no staining; no odor	AOC20-1-35 12:59

BORING	AOC20-1				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/16/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	736.26		**NORTHING**	1895716.50	
					EASTING	6450939.68	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50			SP	POORLY GRADED SAND - Brown (10YR 5/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC20-1-40 13:13
45	50			SP	POORLY GRADED SAND - Dark yellowish brown (10YR 4/4); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-1-45 13:21
50	50			SW	WELL GRADED SAND - Dark yellowish brown (10YR 4/4); fine- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-1-50 13:30
55	19 50			SP	POORLY GRADED SAND - Brown (10YR 5/3); fine- to medium-grained sand; trace fine-grained gravel; dense; moist; no staining; no odor	AOC20-1-55 13:32
60	50			SP	POORLY GRADED SAND - Brown (10YR 5/3); fine- to medium-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-1-60 13:39
65	50			SW	WELL GRADED SAND - Olive (5Y 5/3); fine- to coarse-grained sand; 5% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-1-65 13:45
70	50			SP	POORLY GRADED SAND - Olive (5Y 5/3); fine- to medium-grained sand; trace fine- to medium-grained gravel; dense; moist; no staining; no odor	AOC20-1-70 13:51
75	50			SP	POORLY GRADED SAND - Olive brown (2.5Y 4/4); fine- to coarse-grained sand; trace fine- to medium-grained gravel; very dense; moist; no staining; staining; no odor	AOC20-1-75 13:56
				SW		

BORING	AOC20-1				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/16/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	P Henderson		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	736.26		**NORTHING**	1895716.50	
					EASTING	6450939.68	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	50		■	SW	WELL GRADED SAND WITH GRAVEL - Brown (7.5YR 4/4); fine- to coarse-grained sand; 30% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-1-80 14:01
85	50		■	SP	POORLY GRADED SAND WITH GRAVEL - Brown (7.5YR 5/4); fine- to medium-grained sand; 20% fine- to medium-grained, subangular to subrounded gravel;dense; moist; no staining; no odor	AOC20-1-85 14:06
90	50		■	SP	POORLY GRADED SAND WITH GRAVEL - Brown (7.5YR 5/4); medium- to coarse-grained sand; 30% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-1-90 14:16
95	50		■	SP	POORLY GRADED SAND WITH GRAVEL - Yellowish brown (10YR 5/4); medium- to coarse-grained sand; 20% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-1-95 14:23
100	28 50		■	SW	WELL GRADED SAND WITH GRAVEL - Brown (2.5Y 4/3); fine- to coarse-grained sand; 30% fine- to coarse-grained, subangular to subrounded gravel; dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout and capped with concrete	AOC20-1-100 14:34
105						
110						
115						

BORING	AOC20-2				**PAGE**	1 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/16/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	733.06		**NORTHING**	1895488.67	
					EASTING	6451315.42	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
					Asphalt at surface (12 inches thick) Boring hand-augered to 5 feet bgs	
5	14 33 30		■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 15% silt; very loose; dense; no staining; no odor	AOC20-2-5 13:20
10	11 15 21		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 6/3); medium- to coarse-grained sand; 10% fine- to medium-grained gravel; medium dense; moist; no staining; no odor	AOC20-2-10 13:22
15	16 23 25		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 6/3); medium- to coarse-grained sand; 10% fine- to medium-grained gravel; trace silt; medium dense; moist; no staining; no odor	AOC20-2-15 13:24 AOC20-2-15-DUP 13:25
20	13 24 25		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 6/3); fine- to medium-grained sand; medium dense; moist; no staining; no odor	AOC20-2-20 13:28
25	14 16 27		■	SP-SM	POORLY GRADED SAND WITH SILT - Light olive brown (2.5Y 6/3); fine- to medium-grained sand; 5% silt; medium dense; moist; no staining; no odor Geotechnical sample @ 25 feet bgs (AOC20-2-25; 13:30)	AOC20-2-25 14:15
30	23 25 25		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 6/3); fine- to medium-grained sand; trace fine-grained gravel; very dense; moist; no staining; no odor	AOC20-2-30 13:32
35	24 23 28		■	SW	WELL GRADED SAND - Light olive brown (2.5Y6/3); fine- to coarse-grained sand; trace fine- to medium-grained gravel; dense; moist; no staining; no odor	AOC20-2-35 13:34

BORING	AOC20-2				**PAGE**	2 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/16/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	733.06		**NORTHING**	1895488.67	
					EASTING	6451315.42	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	22 25 28		■	SW	WELL GRADED SAND - Light olive brown (2.5Y6/3); fine- to coarse-grained sand; trace fine- to medium-grained gravel; dense; moist; no staining; no odor	AOC20-2-40 13:36
45	25 24 28		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); fine- to medium-grained sand; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-2-45 13:38
50	19 21 23		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); medium- to coarse-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-2-50 13:48
55	33 50		■	SP	POORLY GRADED SAND - Light olive brown (2.5Y 5/3); medium- to coarse-grained sand; 5% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor	AOC20-2-55 14:00
60	12 27 30		■	SP-SM	POORLY GRADED SAND WITH SILT - Light olive brown (2.5Y 5/4); fine-grained sand; 10% silt; dense; moist; no staining; no odor	AOC20-2-60 14:02
65	22 23 25		■	SM	SILTY SAND - Olive brown (2.5Y 4/3); fine-grained sand; 40% silt; dense; moist; no staining; no odor	AOC20-2-65 14:04 AOC20-2-65-DUP 14:05
70	14 24 30		■	SP-SM	POORLY GRADED SAND WITH SILT - Light yellowish brown (2.5Y 6/3); fine-grained sand; 10% fine- to medium-grained, subangular to subrounded gravel; 5% silt; dense; moist; no staining; no odor	AOC20-2-70 14:06
75	27 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 4/3); fine-grained sand; 10% silt; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-2-75 14:08

BORING	AOC20-2				**PAGE**	3 **OF** 3	
CLIENT	Lockheed Martin	**DRILL CONTRACTOR**	National		**DATE**	9/16/2014	
PROJECT	Burbank Metal Inv.	**LOGGED BY**	D McAlister		**REVIEW BY**	M Weinberger	
BOREHOLE DIAMETER	8 inches	**DRILL METHOD**	Hollow-stem auger		**PG #**	8286	
SAMPLE METHOD	Calif. Drive	**ELEVATION**	733.06		**NORTHING**	1895488.67	
					EASTING	6451315.42	

DEPTH (FT)	BLOW COUNT	PID (PPM)	SAMPLE	USCS	GEOLOGIC DESCRIPTION	SAMPLE (TIME)
	40 50		X		No recovery @ 80 feet bgs	
85	31 50		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 4/3); fine-grained sand; 10% silt; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-2-85 14:30
90	23 37 40		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive (5Y 4/3); fine-grained sand; 10% silt; 5% fine-grained, subangular to subrounded gravel; dense; moist; no staining; no odor	AOC20-2-90 14:32
95	45 50		X		No recovery @ 95 feet bgs	
100	40 50 100		■	SP-SM	POORLY GRADED SAND WITH SILT - Olive brown (2.5Y 4/4); fine- to medium-grained sand; 10% silt; 5% fine-grained, subangular to subrounded gravel; very dense; moist; no staining; no odor Total depth 100 feet; boring backfilled with cement-bentonite grout and capped with concrete (14 inches)	AOC20-2-100 14:50
105						
110						
115						

Appendix C
Hexavalent Chromium Evaluation

Additional Site Investigation Report

Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1

Burbank, California

Section 1
HEXAVALENT CHROMIUM EVALUATION

Dissolved hexavalent chromium in the vadose zone can undergo attenuation processes and understanding the degree to which the conditions for this exist is an important component of the investigation of a release of this compound. Under certain conditions, hexavalent chromium can be reduced to the less toxic trivalent chromium in soils. Understanding the attenuation capacity of a site requires that the following be determined 1) that there are natural reductants present within the aquifer, 2) the amount of hexavalent chromium and other reactive constituents do not exceed the capacity to reduce them, 3) the trivalent chromium will remain immobile, and 4) there is no net oxidation of trivalent chromium to hexavalent chromium. This section of the document describes the presence and mobility of chromium.

1.1 ENVIRONMENTAL CHEMISTRY OF CHROMIUM

The chemistry of chromium as it pertains to its mobility and transport in groundwater is well described in two United States Environmental Protection Agency (USEPA) documents. *Natural Attenuation of Hexavalent Chromium in Groundwater and Soils* (USEPA, 1994) provides a general discussion of chromium mobility and discusses the chemical processes that occur in groundwater systems that tend to reduce the mobility of hexavalent chromium through a reduction and precipitation process. *Chromium* (USEPA, 2007) provides additional information.

In environmental conditions, chromium is present in one of two oxidation states. Hexavalent chromium is the more mobile state. Hexavalent chromium is present as an oxyanions, and thus does not appreciably sorb to silicate minerals. It also is more soluble than the other oxidation state, trivalent chromium. Trivalent chromium is generally present as a hydroxide ion, and the charge on the ion changes as pH changes. Because of the affinity between Cr^{+++} and hydroxide [OH^-], trivalent chromium will precipitate as chromium hydroxide [$Cr(OH)_3$], which has a solubility low enough to reduce dissolved chromium concentrations to acceptable levels.

The chemical behavior of trivalent chromium is similar to that of ferric iron [Fe(III)]. Ferric iron also readily associates with hydroxide ions, and reacts to form ferric hydroxide [$Fe(OH)_3$], which also has a low solubility. Iron also has two valence states under environmental conditions. The reduced form, ferrous iron [Fe(II)], is a common constituent of minerals such as ferromagnesian silicates. Weathering of ferrous iron-bearing minerals releases ferrous iron, which will react with hexavalent chromium to produce ferric iron and trivalent chromium. As both of these reaction products have affinities for hydroxide, they can together create a chromium-iron oxyhydroxide compound [$Cr_xFe_{1-x}(OH)_3$], where x can have values between 0 and 1. The solubility of this compound is a function of the x value, but it is less than the solubility of either chromium hydroxide or ferric hydroxide. When the x value is approximately 0.25, the solubility of the mixed metal hydroxide is about 4 orders of magnitude smaller than that of chromium hydroxide (USEPA, 1994). These reactions are responsible for natural attenuation of hexavalent chromium, and tend to cause the immobilization of chromium. The first step in this process is the concurrent oxidation of ferrous iron and reduction of hexavalent chromium, which is followed by precipitation of chromium-iron hydroxide or oxyhydroxide compounds. Another reaction which reduces hexavalent chromium mobility is the sorption onto ferric hydroxide at lower pH. However, precipitation of chromium-iron hydroxide or oxyhydroxide compounds is the more important mechanism.

Figure C-1 presents the relationship between the concentrations of trivalent chromium and hexavalent chromium for the samples assumed to represent the effects of chromium releases (those containing detectable hexavalent chromium and nearby samples that did not). The hexavalent chromium concentrations range from non-detect (ND; less than 0.10 milligrams per kilogram [mg/kg]) to 32 mg/kg while trivalent chromium concentrations range from 2.2 to 429 mg/kg. Samples were, for the purpose of this evaluation, assumed to have become contaminated if they were located within 10 or 15 feet of a sample containing hexavalent chromium, even if they did not contain hexavalent chromium themselves. Of the 70 presumed affected samples, only 6 have trivalent chromium concentrations greater than 25 mg/kg. This is pertinent because the highest value of available hexavalent chromium attenuation capacity (AHCAC) measured was 20 mg/kg. The highest concentration of trivalent chromium that should be expected in a sample would be this value (which provides the mass of hexavalent chromium that would be converted to trivalent chromium by reduction and precipitation) plus the pre-release concentration. Concentrations of

trivalent chromium greater than about 25 mg/kg suggest that a different attenuation may have been active.

An evaluation was performed of the total chromium concentrations for samples at locations where it is unlikely that the total chromium value was affected by a release of chromium, in order to estimate the background concentration. To avoid including data from samples that may have been affected by a release of hexavalent chromium, samples were excluded if they included detectable hexavalent chromium. In addition, samples that were within 10 or 20 feet of a sample with detectable hexavalent chromium were excluded from this dataset. The intent of this classification effort was to identify those samples which would be very unlikely to have been affected, and thus could be used to estimate the retardation characteristics of the deeper sediments. Of the 340 chromium, 265 were determined to be unaffected by hexavalent chromium releases, and 75 were determined to be affected or potentially affected (Table 1). For this release-unaffected dataset, the minimum and maximum total chromium concentrations were 1.6 and 111 mg/kg. The higher values (above approximately 25 mg/kg) in this dataset are from borings that did not have any nearby hexavalent chromium detections, and thus are still considered to be representative of background concentrations. The dataset appears to be log-normally distributed, with a geometric mean value of 5.5 mg/kg and arithmetic mean of 7.2 mg/kg.

There may be low levels of hexavalent chromium present in the sediments. Hexavalent chromium has been found in groundwater in arid areas (Izbicki and others, 2012; Ball and Izbicki, 2004; Isbicki and others, 2008) at concentrations exceeding 50 micrograms per liter (µg/L) in some areas. However, for the purposes of this evaluation, it is assumed that the presence of hexavalent chromium is the result of a release.

1.2 CONCENTRATIONS OF TOTAL AND HEXAVALENT CHROMIUM IN SOIL SAMPLES

The total chromium values include both trivalent chromium and hexavalent chromium, and the trivalent chromium concentration can be calculated by subtracting the hexavalent chromium concentration from the total chromium concentration. The calculated trivalent chromium values are presented on Table 1 (when hexavalent chromium was not detected, a hexavalent chromium concentration of ½ of the method detection limit, or 0.05 mg/kg, was used for the calculation).

Total chromium was present in all samples, even in borings where no hexavalent chromium was detected in any samples. These data indicate that chromium is present as a background element in these soils. Therefore, the detection of total chromium in the soil samples does not necessarily indicate that a chromium release occurred at the location of the boring.

1.3 GEOCHEMICAL PARAMETERS

The data from the geochemical analyses indicate that iron- and sulfide-bearing minerals are present. These minerals may react to cause reduction and precipitation of hexavalent chromium if chemical conditions are appropriate, but there was no observed relationship between iron or sulfide concentrations and trivalent or hexavalent chromium concentrations.

Organic carbon was detected in three of the analyzed samples, and is its presence appears to be associated with higher trivalent chromium concentrations. Manganese was also present in the samples at concentrations much lower than the iron concentrations. While manganese has been found to cause oxidation of trivalent chromium to hexavalent chromium, it is unlikely that this manganese is present in a form and at concentrations that would cause this to occur, and there was no observed relationship between manganese concentrations and trivalent or hexavalent chromium concentrations. The geologists logging the soil borings were advised to carefully note manganese coatings (which would be more available for reaction than manganese inside the grains), and none were noted.

Finally, the pH data indicate that the sediments are alkaline, with all pH measurements higher than 7.6.

1.4 AVAILABLE HEXAVALENT CHROMIUM ATTENUATION CAPACITY

Selected soil samples were analyzed to evaluate the attenuation capacity using an available hexavalent chromium attenuation capacity (AHCAC) analysis. The analysis is a variant of the "available chromium reducing capacity" test referenced in Natural Attenuation of Hexavalent Chromium in Groundwater and Soils (USEPA, 1994) and described in Bartlett and James (1988).

Bartlett and James (1988) described three different methods for evaluating the hexavalent chromium reducing capacity of soils: 1) total hexavalent chromium reducing capacity, 2) available

hexavalent chromium reducing capacity, and 3) hexavalent chromium reducing intensity. The "total hexavalent chromium reducing capacity" test is similar to the Walkley-Black method for analysis of total organic carbon in soil. In the Walkley-Black method, a soil sample is reacted with potassium dichromate in a strong sulfuric acid solution for one hour. Initial and residual dichromate is determined by titration with ferrous sulfate, and the difference is used to calculate organic carbon concentrations. The "available hexavalent chromium reducing capacity" test is performed in a similar manner, but uses a much weaker phosphoric acid solution than the Walkley-Black method, and an extended reaction time of 18 hours.

The variant of the "available hexavalent chromium reducing capacity" test that was used for this project uses the same phosphoric acid-potassium dichromate solution and reaction time as the Bartlett and James (1988) method. A few grams of moist soil are placed in a solution of phosphoric acid (H_3PO_4), and reacted with potassium dichromate ($K_2Cr_2O_7$) for 18 hours, and the change in the mass of the chromium present is determined. The use of a weak acid prevents the overestimation of the reducing capacity that results from use of sulfuric acid in the Walkley-Black test. The Walkley-Black test was developed to measure the amount of total organic carbon (TOC) present in samples, and has been used to measure what has been termed as the "total hexavalent chromium reducing capacity" (USEPA, 1994). The modified Walkley-Black test is not likely to determine the attenuation capacity caused by organic matter. In addition, the Walkley-Black test is likely to release more ferrous iron [Fe(II)] present in chemically resistant minerals than the Bartlett and James test (1988). The use of the weaker acid in the Bartlett and James test (1988) likely releases the readily available ferrous iron contained in the weathered minerals, but not the ferrous iron in the more stable unweathered mineral structures. In the analyses performed in this evaluation, initial and residual hexavalent chromium concentrations were determined by USEPA Method SW3060A/7199 rather than by titration with ferrous sulfate. The change in chromium concentration in solution is used to calculate the AHCAC.

The term "unaffected" is used to represent the samples which are unlikely to have been affected by hexavalent chromium releases. The majority of these samples are from borings that did not contain any detectable hexavalent chromium. The term "affected" is used, for ease of reference, to indicate the remaining samples, which are affected or potentially affected by releases.

The AHCAC was measured on 29 soil samples (Table 4), which included 16 samples deemed to have been affected by hexavalent chromium (as described earlier) and 13 samples which were not believed to have been affected. For the total dataset, the AHCAC ranged from null (no measurable AHCAC) to 20.0 mg/kg, and averaged 4.7 mg/kg. The AHCAC would be expected to be greater in samples that have not been affected by hexavalent chromium as the reaction between hexavalent chromium and the sediments would consume a portion or all of the AHCAC. This was determined to be the case in these samples. The average AHCACs for the affected and unaffected samples were 2.65 mg/kg and 7.26 mg/kg, respectively. The AHCAC ranges for the two sets of samples were 0.10 to 14.6 mg/kg, and 0.40 to 20.0 mg/kg, respectively.

In the affected group, only one soil sample had an AHCAC value greater than 4.4 mg/kg. Sample AOC7-2-75 (AHCAC value of 1mg/kg) had trivalent chromium and hexavalent chromium concentrations of 8.0 mg/kg and 2.4 mg/kg, respectively, suggesting that the reduction of the hexavalent chromium was not complete. The other samples had hexavalent chromium concentrations ranging from less than 0.1 mg/kg to 32 mg/kg, with 10 values greater than 1 mg/kg. The presence of samples with detectable AHCAC and detectable hexavalent chromium indicates that some of the AHCAC may not be available for reacting with the hexavalent chromium. Alternative explanations for this observation are that the AHCAC and hexavalent chromium measurements were made on different aliquots of samples with different concentrations (heterogeneity), or that the chemical reduction is not complete because of reaction kinetics.

The sample with the highest hexavalent chromium concentration (AOC8/9-1-15, 32 mg/kg) had an AHCAC of 1.12 mg/kg, also suggesting that not all of the AHCAC was available for reaction. This sample also had the highest trivalent chromium concentration (429 mg/kg). As stated previously, the highest AHCAC value for unaffected samples was 20.0 mg/kg. In other words, the AHCAC could reduce a maximum of 20 milligrams (mg) of hexavalent chromium to trivalent chromium per kilogram (kg) of sediment. Trivalent chromium concentrations would not be expected to exceed 20 mg/kg by more than the background concentrations unless other mechanisms can cause hexavalent chromium attenuation. Sample AOC8/9-1-15 was one of the three samples with detectable TOC (4,200 mg/kg). The high trivalent chromium concentration (461 mg/kg) may be a result of the reducing capacity of the organic carbon.

Another sample with detectable organic carbon was AOC8/9-4-45, with a TOC concentration of 1,300 mg/kg. There was no measurable AHCAC in this sample. This suggests that the AHCAC measurement is not affected by the presence of organic carbon, at least until the TOC concentration is greater than 1,300 mg/kg. This sample had a trivalent chromium concentration (35 mg/kg) greater than 20 mg/kg, perhaps because the organic carbon present in the sample caused the hexavalent chromium to be reduced to trivalent chromium.

Another affected sample with no measurable AHCAC was AOC8/9-2-55, which had trivalent chromium and hexavalent chromium concentrations of 42 mg/kg and 7.5 mg/kg, respectively. No TOC data are available for this sample. As a result, it is not clear whether the trivalent chromium concentration is the result of the presence of organic carbon, or because the original (un-reacted) AHCAC was greater than 20 mg/kg. This sample consisted of silt, which is more likely to contain organic matter than coarser-grained materials. This sample is an example of where the reaction with hexavalent chromium is likely to have consumed all of the AHCAC.

As noted above, the average AHCAC for samples classified as affected by a hexavalent chromium release is 2.61 mg/kg. However, this average includes samples with no detectable hexavalent chromium, plus the sample with the highest concentration of organic carbon. When these samples are removed from the average, the range is null (no measurable AHCAC) to 4.37 mg/kg, and the average is 1.88 mg/kg. These samples are known to have been affected by a hexavalent chromium release, because hexavalent chromium is still present. The continuing presence of measurable AHCAC for these samples is attributed to the disaggregation process during the AHCAC test, making more reactive surfaces available for reaction with the hexavalent chromium, but, as noted above, may be the result of heterogeneity or kinetics. As stated previously, the AHCAC range for samples deemed to be unaffected by a hexavalent chromium release was 0.40 to 20 mg/kg, and the average AHCAC was 7.26 mg/kg.

There is a correlation between the AHCAC and grain size. The data for the unaffected samples suggest that the AHCAC is higher in coarse-grained sediments than in fine-grained sediments. The unaffected samples are more reliable for evaluating the relationship between grain size and AHCAC, because the original AHCAC would not be consumed by reaction with hexavalent chromium. The two samples (AOC2-1-140 and AOC3-1-150) that had the lowest measured

AHCAC values (0.60 and 0.40 mg/kg) were silt samples. The sample (AOC13-2-100) with the highest measured value (20 mg/kg) was a poorly sorted sediment; it was classified as a silty sand, but contained 15% gravel. The next three highest values were from samples that also included gravel. Sedimentation conditions in which gravel-sized particles can be transported are also likely to be able to transport the higher density ferromagnesian minerals that would provide ferrous iron and be a source of AHCAC. The silt-rich samples also had lower AHCAC values in affected samples.

For the purposes of predicting the potential for future hexavalent chromium movement to the water table, the value for AHCAC that will be used for unaffected soils will be the average for the unaffected samples less the average for those samples with detectable hexavalent chromium, or 5.38 mg/kg (7.26 mg/kg minus 1.88 mg/kg).

1.5 SYNTHETIC PRECIPITATION LEACHING PROCEDURE

Selected soil samples were analyzed for leachability using the Synthetic Precipitation Leaching Procedure (SPLP) extraction with analysis of the leachate for hexavalent chromium, total chromium, and iron. The SPLP was modified slightly as described below.

- A 4:1 ratio of extraction fluid to solids was used rather than the standard 20:1 ratio. The 4:1 ratio is more representative of actual field conditions. This ratio can result in different chemical conditions than will occur in situ, where the actual water to soil ratio will be approximately 0.1:1. Because these tests were not being used to categorize wastes, but to provide information on chromium attenuation and transport, the water to soil ratio used for these tests was 4:1, to more closely match the in-situ value and still provide a manageable sediment concentration in the water, which must be filtered.

- Two separate extraction fluids were used for each sample: an extraction fluid with a pH of 5. 0 (Extraction Fluid #2), and an extraction fluid consisting of deionized water (Extraction Fluid #3). For the area west of the Mississippi River, the SPLP method specifies a mixture of sulfuric and nitric acid diluted to a pH of 5.0, selected to represent the chemistry of precipitation. This mixture is termed Extraction Fluid #2. For chromium tests, many labs recommend the use of deionized water at a pH of 7.0, to minimize the reduction of hexavalent chromium to trivalent chromium during the leaching process. This water is called Extraction Fluid #3. For the SPLP testing done for this project, separate tests were performed on each sample using Extraction Fluid #2 and Extraction Fluid #3 leaching solutions. For ease of reference, SPLP tests performed using Extraction Fluid #2 will be referred to as SPLP II and SPLP tests performed using Extraction Fluid #3 will be referred to as SPLP III.

The synthetic precipitation leaching procedure (SPLP) tests were performed on the same 12 samples selected for the geochemical analyses, providing soil pH data for comparison with the leachate pH data from the SPLP tests. These included two samples deemed to be unaffected (AOC7-1-145 and AOC-11-1R-100). These two samples did not include detectable concentrations of hexavalent chromium, and had trivalent chromium concentrations of 2.8 mg/kg and 10.8 mg/kg, respectively. The other 10 samples were from the affected grouping. Of these, the hexavalent chromium concentrations ranged from ND (less than 0.10 mg/kg) to 32.0 mg/kg, and trivalent chromium concentrations ranged from 3.0 to 429 mg/kg.

The leachates for the two samples in the unaffected grouping (AOC7-1-145 and AOC11-1R-100) did not contain detectable chromium, even though both samples contained trivalent chromium. In contrast, the two leachates from the sample (AOC8/9-1-60) in the affected grouping which also did not contain detectable hexavalent chromium did contain both trivalent chromium (SPLP II=5.3 micrograms per liter [µg/L]; SPLP III=7.9 µg/L) and hexavalent chromium (SPLP II=3.49 µg/L; SPLP III=4.64 µg/L). These limited results indicate that the chromium in samples that were estimated to be affected may leach chromium if the pH is lowered, but that unaffected samples will not. In both the unaffected and affected samples, the leachates contained iron, which was not present in the original leaching fluids. Thus, the leaching tests dissolve readily soluble iron.

As suggested above, the SPLP tests involve inducing a reduction in pH. The pH measurements of the leaching solutions are 5.0 (Extraction Fluid #2, used in SPLP II) and 7.0 (Extraction Fluid #3, used in SPLP III), and, if no chemical reactions occurred to modify the pH, the leachate should have these same pH measurements. Figure C-2 contains plots of the original soil pH and leachate pH, along with 1:1 lines. The points lie below the 1:1 lines indicating that the leachates have lower pH measurements than the original soil samples. However, the SPLP II leachates have higher pH measurements than the original leaching solution (pH=5.0). The data are more complicated for the SPLP III leachates. The leaching solution had a measured pH of 7.0, and most leachates have pH measurements greater than 7.0. However, there are two leachates with pH less than 7.0. The reason is not known, but may be the result of dissolution of atmospheric carbon dioxide (producing carbonic acid) in the leachate, which can produce pH values less than 7.0.

Trivalent chromium will precipitate as chromium hydroxide ($Cr(OH)_3$) or with iron as a chromium-iron oxyhydroxide compound ($Cr_xFe_{1-x}(OH)_3$). Chromium also sorbs on iron hydroxide ($Fe(OH)_3$) or iron oxyhydroxide (FeOOH). The SPLP results suggest that the simulated leaching of the affected soils dissolves readily soluble iron compounds, and either releases chromium co-precipitated with these iron compounds or sorbed to these compounds. The amount of chromium sorbed is likely to be less than 50% at the pH values observed, especially if competing anions such as sulfate are present (USEPA, 1999). The iron compounds are most likely present as surface coatings on the mineral grains.

The leachates from affected samples contained both hexavalent chromium and trivalent chromium, and the trivalent chromium concentrations were consistently higher than those of hexavalent chromium. The trivalent chromium could have been present in the pore water, which is unlikely given its low solubility at neutral to slightly alkaline pH; could have been released by dissolution of trivalent chromium-bearing hydroxide solids; or could have been produced by reduction of hexavalent chromium in the pore water. The measured iron concentrations are typical of iron concentrations in equilibrium with iron hydroxide [$Fe(OH)_3$] or iron oxyhydroxide (FeOOH), but are much higher than would be in equilibrium with chromium-iron hydroxide compounds [$Cr_xFe_{1-x}(OH)_3$] or oxyhydroxide compounds. Thus, it is unlikely that the trivalent chromium was released by dissolution of chromium-iron hydroxide or oxyhydroxide compounds. The presence of the trivalent chromium is best explained by reduction of hexavalent chromium, consistent with the presence of measurable AHCAC in the soils. While no geochemical speciation modeling was performed, it is likely that at the pH values of the samples, the Eh of the water will be controlled by the solubility of the iron hydroxide or iron oxyhydroxide at a value where trivalent chromium would be the prevalent chromium oxidation state.

Calculations of the mass of chromium in the leachate for both the SPLP II and SPLP III leaching fluids indicate that the mass of chromium (total chromium, hexavalent chromium + trivalent chromium) in the leachate is less than 10% of the mass of hexavalent chromium contained in the soil samples. For individual samples, the percentage ranges from 2% to nearly 60% of the mass of hexavalent chromium in the soil sample; the higher values occur with the samples that had low hexavalent chromium concentrations in the soil samples. The low mass in the leachate would suggest either the hexavalent chromium value in the soil sample represents both aqueous and solid-

bound hexavalent chromium, or that it represents only aqueous hexavalent chromium, with only a portion of the aqueous hexavalent chromium being removed in the SPLP test.

Reactions during the SPLP test may also account for the low concentrations of chromium in the leachates. The SPLP test is similar to the AHCAC test, except that the acid is considerably weaker and the hexavalent chromium is already present, rather than being added. The soils have the capacity to reduce hexavalent chromium, based on the data from the available hexavalent chromium attenuation testing. The net result would be removal of hexavalent chromium from the leachate, as was observed, accompanied by a decrease in the AHCAC of the soil.

The SPLP tests are batch tests, and do not simulate the leaching behavior that would result from continued introduction of leaching solution. If the same soil sample used in the SPLP test were to be reacted with fresh leaching solution, additional hexavalent chromium would be mobilized. Repeated leaching with fresh solution would continue to leach additional hexavalent chromium, up to the pre-leaching mass in the sample. The total amount leached through this process will be a function of the AHCAC in the sample and the original mass. Once the AHCAC is exhausted, the attenuation that occurs with each leaching step will greatly decrease.

In the course of the hexavalent chromium assessment, the hexavalent chromium mass was compared to the AHCAC to determine additional insight into whether hexavalent chromium can migrate to the water table, assuming that sufficient water is available for downward movement. This was not a mechanistic model, which could simulate the attenuation which would result from reaction of migrating hexavalent chromium with the AHCAC present in deeper sediments. In this comparison, it is straightforward to estimate the total AHCAC from the depth of greatest extent of hexavalent chromium down to the water table, but more difficult to estimate the effect of AHCAC remaining above the greatest extent on the mass of hexavalent chromium available for transport. Instead of developing a mechanistic model at this level of investigation, an approach was used in which the percentage of hexavalent chromium available was bounded between 100% (which assumes that no AHCAC is available) and 10%, based on the SPLP results. Because the SPLP test was only a single step of leaching, the actual percentage which is available for migration is greater than 10%. The 10% release was used as a lower estimate of the amount of hexavalent chromium

that would need to react with the AHCAC present below the current extent of hexavalent chromium migration.

The SPLP testing provided two important pieces of information:

1. The interaction between the soil and the leaching solutions released iron, hexavalent chromium, and trivalent chromium from the soils.
2. The total mass of chromium released in the SPLP tests was less than 10% of the mass of hexavalent chromium present in the soils, indicating either that some of the hexavalent chromium is present in a low-solubility form, or that it is removed from the leachate by precipitation. This percentage is consistent with the presence of AHCAC remaining in the sample. Additional leaching steps would release additional hexavalent chromium, but not more than the original mass of hexavalent chromium in the sample.

1.6 HEXAVALENT CHROMIUM ATTENUATION ASSESSMENT

This initial assessment of the likelihood that hexavalent chromium present in the vadose zone at the locations of the borings was conducted in the manner outlined by USEPA (1994). The USEPA document recommends determining whether the following criteria are met.

1. There are natural reductants present within the aquifer.
2. The amount of hexavalent chromium and other reactive constituents do not exceed the capacity of the aquifer to reduce them.
3. The rate of hexavalent chromium reduction is greater than the rate of transport of the aqueous hexavalent chromium.
4. The trivalent chromium remains immobile.
5. There is no net oxidation of trivalent chromium to hexavalent chromium.

Item 3 is not considered in this initial evaluation. The approach developed by the USEPA was intended to evaluate transport beneath the water table, where the physics of flow are simpler than in the vadose zone. Additionally, monitoring data can be more easily collected in the saturated system, providing information on concentrations of hexavalent chromium in the water and their changes through time. For evaluating transport in the vadose zone, collection of water samples is difficult, especially temporally. Determining the kinetics of hexavalent chromium reduction in the

soil column is difficult. Therefore, evaluating Item 3 has been postponed until it has been determined that it is necessary. However, it is known that the land use and operational practices at the various areas of concern (AOCs) have changed in ways that would tend to reduce infiltration rates and thus slow the movement of water and dissolved hexavalent chromium.

1.6.1 Presence of Natural Reductants

Natural reductants have been demonstrated to be present in the soils. The most direct evidence for their presence is provided by the AHCAC testing. The AHCAC testing shows that the soils are capable of reducing and removing hexavalent chromium from the test solutions. As expected, there is variability in the AHCAC values. The maximum AHCAC for the unaffected samples was about 20 mg/kg, and the average was approximately 7 mg/kg. The soils that were deemed to be affected by releases also have AHCAC. Nearly all samples that contained hexavalent chromium still had AHCAC remaining.

Three out of twelve samples contained measurable organic carbon. These samples were fine-grained. The sample with the highest TOC also had the highest trivalent chromium concentration (429 mg/kg) measured during this evaluation, suggesting that the organic carbon in the sample was a significant factor in reducing hexavalent chromium. The detection limit for the TOC analyses was 500 mg/kg, and the other samples could easily contain organic carbon at lower concentrations.

1.6.2 Comparison of the Mass of Hexavalent Chromium and the AHCAC

In order for the AHCAC in the soil column to reduce the hexavalent chromium in the soil column, and prevent it from reaching the water table, there must be sufficient AHCAC available deeper in the soil column below the hexavalent chromium. The simplest way to evaluate this would be to estimate the mass of hexavalent chromium available for further transport, and compare that mass to the total AHCAC between the greatest depth of detected hexavalent chromium and the water table. Mathematically, this is a simple matter of integrating the concentrations between the surface and greatest extent of migration, for comparing with the integrated AHCAC between the greatest extent and the water table.

Operationally, this is more difficult than indicated, as the concentrations of hexavalent chromium need to be estimated over these intervals, along the flow path. The borings did not follow the flow

path from the point of the release downward, as indicated by the alternating intervals with and without detectable hexavalent chromium. If the flow path were strictly vertical, the borehole should have had detections from the surface down to the extent of transport. In general, this did not occur, although it did occur in boring AOC7-2. Because of the heterogeneity in the sediments, and the nonlinear relationship between permeability and moisture content, water movement in the vadose zone tends to be nonuniform, and typically occurs in stringers of higher water content. On average, the movement is vertical, but locally it is not. A borehole can intersect a moisture stringer at different depths, both entering and leaving the stringer. Additionally, a borehole can intercept multiple stringers at different depths.

The concentrations in soil were estimated by doing a linear interpolation between the sampling depths where hexavalent chromium data are available. To be conservative, the samples where the hexavalent chromium concentration was below the detection limit were ignored in the interpolations, so that the mass of hexavalent chromium along the flow path, rather than the mass sampled within the borehole, is considered in the calculations.

As discussed in Section 1.4, not all of the hexavalent chromium above the present extent of transport will be transported downward as far as the present-extent depth, because AHCAC is still present in the sediments above the present-extent depth. Thus, bounding calculations were performed for the borings where there is the potential for hexavalent chromium to reach the water table. These bounding calculations were performed with the assumption that:1) 100% of the hexavalent chromium is available for transport (i.e., no further attenuation in the depth range where hexavalent chromium is currently present), or 2) 10% of the hexavalent chromium is available, based on the single-step SPLP leaching results.

The AHCAC from the greatest extent of the hexavalent chromium to the water table was estimated by assuming that the average AHCAC along this part of the flow path was equal to 5.38 mg/kg, the difference between the average AHCAC in the unaffected samples and the AHCAC considered to be unavailable based on the affected samples.

Table C-1 provides estimates of the mass of hexavalent chromium at the location of the indicated boring from the land surface down to the depth of the last sample that indicated the presence of hexavalent chromium, and the integrated AHCAC from that depth down to the water table. The

comparison is presented as a ratio; if the ratio is less than 1, then it is likely that there is sufficient AHCAC below the depth of greatest observed migration to attenuate the hexavalent chromium. The comparison assumes that 100% of the mass of hexavalent chromium is available for transport. In other words, all of the hexavalent chromium is leachable and no attenuation will occur at depths shallower than the maximum depth of detected hexavalent chromium (a conservative estimate). Also shown are results which assume that only 10% of the observed hexavalent chromium concentration is mobile.

The mass of hexavalent chromium is much less than the AHCAC in AOC2-1, AOC11-1R, AOC11-2, and AOC13-1, even assuming that 100% the hexavalent chromium is mobile. In these locations, the future migration of hexavalent chromium to the water table is unlikely. If all of the hexavalent chromium is mobile, the mass that is present in AOC7-2 and AOC8/9-1 appears to exceed the AHCAC below the bottom of the boring. Hexavalent chromium likely has migrated deeper than the total depth of AOC7-2, and almost certainly below the total depths of the borings in AOC8/9. Detectable hexavalent chromium was present to a depth of 135 feet in AOC7-2, about 35 feet above the water table (estimated at a depth of 170 feet, based on April 2014 groundwater levels [Tetra Tech, 2014]). However, if only 10% of the hexavalent chromium is mobile, then whether the mass of mobile hexavalent chromium will exceed the deeper AHCAC will depend on how deep hexavalent chromium has migrated below the depths of these borings. In the other three borings in AOC8/9, the balance between the mobile hexavalent chromium and the AHCAC will depend on the depth of migration of the hexavalent chromium below the total depths of the borings. At AOC13-2, the ratio is quite low, but the extent of the present migration has not been determined.

An estimate of the effects of migration deeper than the bottom of the boring was made by assuming that the hexavalent chromium concentrations decrease linearly between the depth of the deepest detection and different “trial” depths. The trial depth was adjusted until the ratio was approximately 1. The depth to water in AOC8/9 is estimated at approximately 145 feet below ground surface (bgs) based on April 2014 groundwater levels (Tetra Tech, 2014). If 100% of the hexavalent chromium mass is mobile in boring AOC8/9-1, the AHCAC below the total depth of the boring is insufficient to attenuate all of the hexavalent chromium. If only 10% is mobile, the depth at which the mass of mobile hexavalent chromium is equal to the deeper AHCAC is 129 feet. In other words, if only 10% of the hexavalent chromium is mobile, the present depth of

migration would need to be very close to the water table before future migration would reach the water table. For other borings in AOC8/9, these 100% and 10% mobility depths are estimated to be 78 and 135 feet (AOC8/9-2), 82 and 133 feet (AOC8/9-3), and 129 and 144 feet (AOC8/9-4), respectively. If the present extent is greater than these calculated depths (for the two bounding percentages), then there likely is insufficient AHCAC below the present extent to attenuate the hexavalent chromium and prevent it from reaching the water table. At the other boring which did not determine the extent of contamination (AOC13-2), these depths are 233 and 239 feet, respectively; the water table is at a depth of approximately 240 feet at this location. Thus, if the present extent of contamination is not much greater than the total depth of this boring (100 feet), it is unlikely that hexavalent chromium would reach the water table.

In summary:

- The AHCAC below the depth of greatest observed migration greatly exceeds the mass of hexavalent chromium in borings AOC2-1, AOC11-1R, AOC11-2, and AOC13-1, even if 100% of the hexavalent chromium is mobile.
- The extent of the present hexavalent chromium migration was not determined in boring AOC7-2, and the observed depth of migration is within 35 feet of the water table. It is possible that migration to the water table has already occurred.
- The borings in AOCs 8 and 9 only extend to depths of 55 or 60 feet and the depth to water is approximately 145 feet. Thus, the extent of hexavalent chromium migration below 60 feet is unknown. The known hexavalent chromium mass in boring AOC8/9-1 exceeds the deeper AHCAC if all of the hexavalent chromium is mobile. However, if only 10% is mobile, then the depth to where the AHCAC becomes less than the mobile mass is above but close to the water table. The presently known mass is less for the other borings in AOCs 8 and 9. However, it is still possible that migration to the water table could occur if only 10% of the mass is mobile.
- It is unlikely that future migration would reach the water table at AOC13-2. The mass of hexavalent chromium observed in the boring is likely to be too low to exceed the AHCAC below the depth of the boring.

1.6.3 Stability of Trivalent Chromium

The concentration of trivalent chromium is generally considered to be limited by the solubility of either chromium hydroxide [$Cr(OH)_3$] or the chromium-iron solid solution series [$Cr_xFe_{1-x}(OH)_3$], or as related oxyhydroxides. The solubility of these compounds is a function of pH, and in the case of $Cr_xFe_{1-x}(OH)_3$, by ferric iron [Fe(III)]. If the pH becomes less than approximately 6.2, or greater

than approximately 11.2, the solubility of chromium hydroxide increases. The pH values of the 38 soil samples measured were between 7.5 and 8.9 (with the exception of one sample at 9.7), well within this the range over which the equilibrium activity (similar to concentration) is approximately 10^{-7} molar, or 5 µg/L. Thus, unless the pH is decreased to less than 6.2, the solubility of chromium hydroxide would limit the trivalent chromium concentration to less than 5 µg/L. The solubility of $Cr_xFe_{1-x}(OH)_3$ is up to 4 orders of magnitude lower, and thus is the compound more likely to control the concentration of trivalent chromium, and result in lower concentrations of trivalent chromium.

The pH is unlikely to shift to values outside the range of observed soil pH measurements. During the SPLP testing using the pH 5.0 leaching agent (SPLP II), the pH of one sample was 5.86. The other samples ranged from 6.14 to 8.99. Thus, the soils are able to buffer the pH to values higher than the leaching agent. These tests were run using a water:soil mixture of 4:1 by weight, or approximately 4 liters of water per kilogram of soil. The maximum ratio in the soil samples was 0.23:1, and the average ratio was approximately 0.06:1. With these lower water to soil ratios, the pH would be buffered to pH values higher than measured in the SPLP tests.

Unless the trivalent chromium is oxidized to hexavalent chromium, the trivalent chromium should remain stable. The potential for oxidation is discussed below.

1.6.4 No Net Oxidation of Trivalent Chromium to Hexavalent Chromium

The attenuation of hexavalent chromium is achieved by reduction to trivalent chromium followed by precipitation of a low-solubility compound. If the trivalent chromium-bearing solid is oxidized, then the resulting hexavalent chromium will be mobile. Trivalent chromium can be oxidized by reduction of manganese and by decreasing the pH to low levels. If the AHCAC is exhausted, then oxidation by manganese can be a concern.

No laboratory tests were performed to evaluate the stability of the trivalent chromium. However, indirect evidence indicates that this is unlikely. First, during logging of the borings, the geologists were instructed to note any manganese coatings, which would be formed if manganese were being reduced to Mn(II) by oxidation of trivalent chromium, because of re-oxidation by atmospheric oxygen. None were observed. Second, the ratio of total iron to total manganese in the samples ranges from 19 to 67, with an average of 53, so that if oxidation of trivalent chromium by

manganese occurs, the hexavalent chromium will likely be re-reduced by the iron. Thus, release of hexavalent chromium by the manganese present in the sediments is not expected to occur.

1.7 SUMMARY

The evaluation of the data from the borings indicates:

- The chemistry of the sediments can promote the reduction of hexavalent chromium to trivalent chromium which would be followed by precipitation of the trivalent chromium to a low-solubilty solid phase, resulting in natural attenuation of the hexavalent chromium.
- Only the borings from AOCs 2, 7, 8/9, 11, and 13 contained samples that had hexavalent chromium detected in the soil.
- The attenuation capacity for limiting the further migration of hexavalent chromium appears to be sufficient at AOCs 2, 11, and 13 to prevent the detected hexavalent chromium from migrating to the water table.
- At AOCs 7 and 8, and 9, the attenuation capacity may be insufficient to prevent the migration to the water table.

The rate of water migration downward through the vadose zone has not been evaluated. The change in use of the properties and resulting changes in water-use practices has likely decreased the rate of water movement, and thus would have reduced the potential of any continued migration of hexavalent chromium vertically toward the water table.

Section 2
REFERENCES

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2. Bartlett, R.J. and James, B.R., 1988. “Mobility and Bioavailability of Chromium in Soils.” IN: *Chromium in the Natural and Human Environments*, Vol. 20 (J.O. Nriagu and E. Niebor, editors). John Wiley & Sons, New York: 267-306.

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5. USEPA, 1994. *Natural Attenuation of Hexavalent Chromium in Groundwater and Soils*. EPA/540/5-94/505”. October.

6. USEPA, 1999. *Understanding Variation in Partition Coefficient, Kd, Values, Volume II: Review of Geochemistry and Available Kd Values for Cadmium, Cesium, Chromium, Lead, Plutonium, Radon, Strontium, Thorium, Tritium (3H), and Uranium*. EPA 402-R-99-004B.

7. USEPA, 2007. *Chromium*. EPA/600/R-67/140, p. 43-55.

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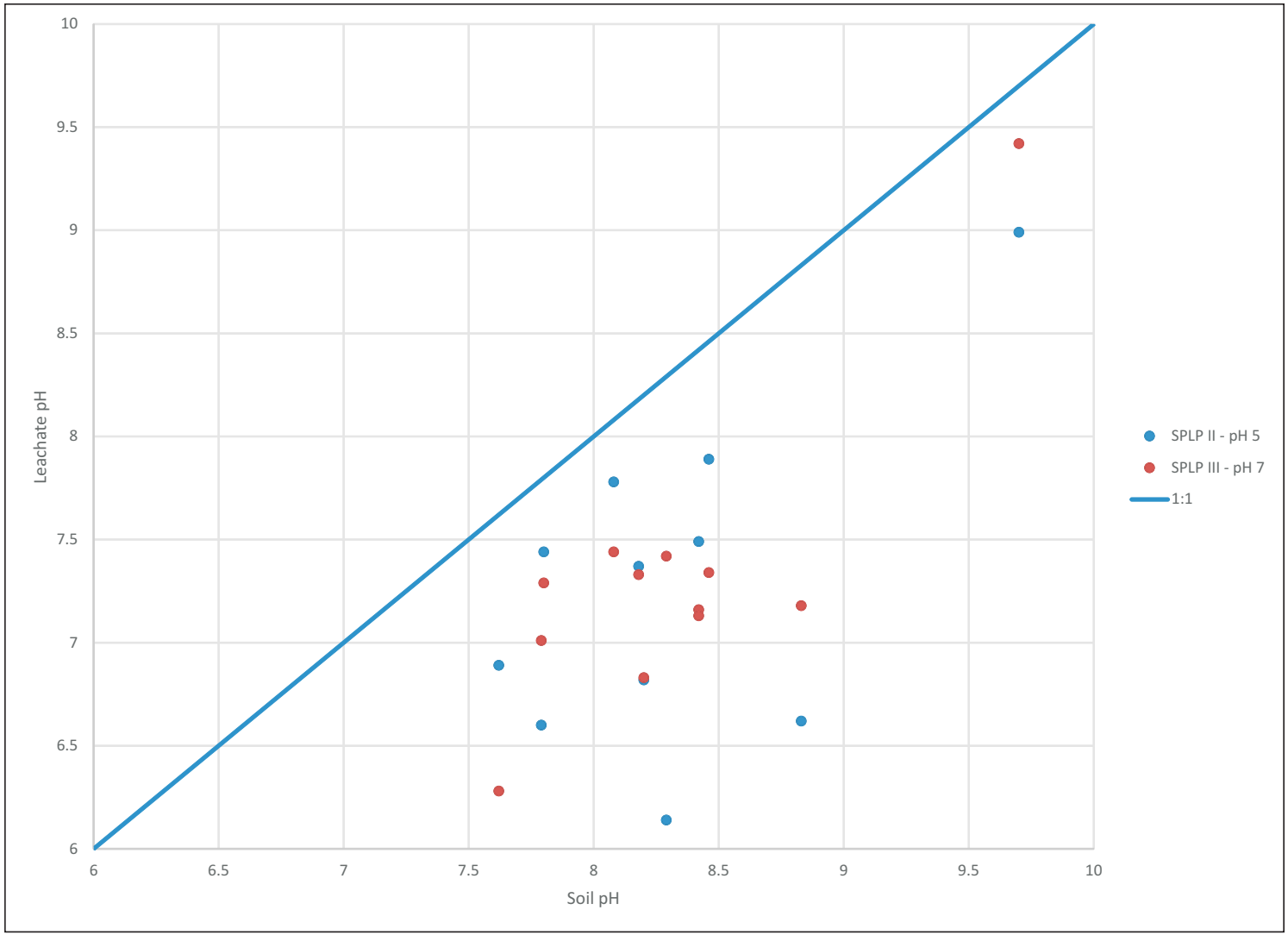

BURBANK OPERABLE UNIT

C-2

pH Values of Soils and SPLP Leachates

TETRA TECH

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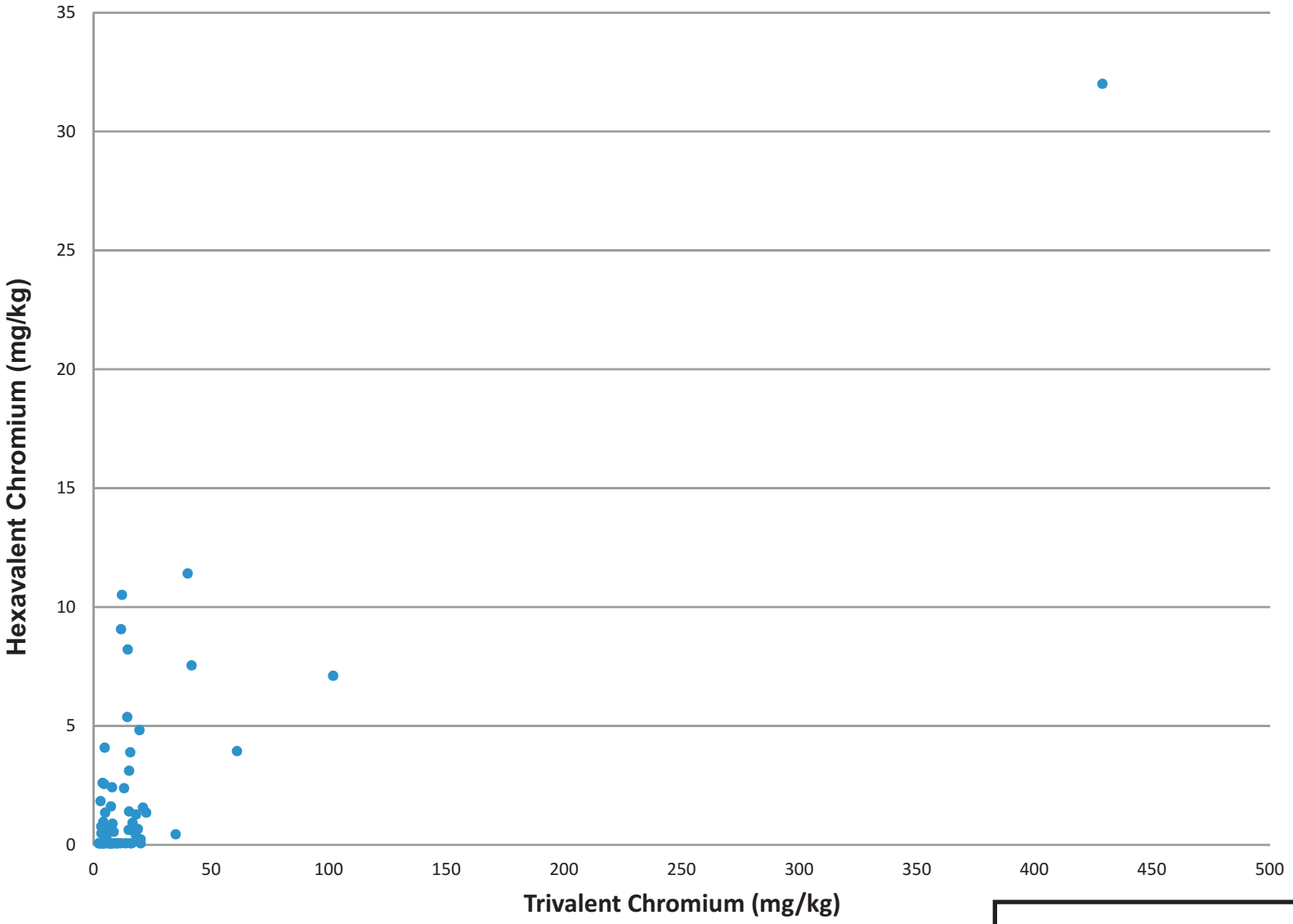

BURBANK OPERABLE UNIT

C-1

Comparison of Trivalent Chromium and Hexavalent Chromium in Affected Samples

TETRA TECH

Table C-1
Comparison of Hexavalent Chromium Mass and Total Available Hexavalent Chromium Attenuation Capacity
Additional Site Investigation Report
Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1
Burbank, California

Boring	100% hexavalent chromium mass			10% hexavalent chromium mass		
	Hexavalent chromium mass (mg)	Total AHCAC (mg)	Hexavalent chromium mass/AHCAC	Hexavalent chromium mass (mg)	Total AHCAC (mg)	Hexavalent chromium mass/AHCAC
AOC2-1	24	430	0.06	2	430	0.01
AOC7-2	413	156	2.65	41	156	0.26
AOC8/9-1	841	457	1.84	84	457	0.18
AOC8/9-2	271	457	0.59	27	457	0.06
AOC8/9-3	207	425	0.49	21	425	0.05
AOC8/9-4	70	425	0.16	7	425	0.02
AOC11-1R	60	753	0.08	6	753	0.01
AOC11-2	16	942	0.02	2	942	0.00
AOC13-1	14	995	0.01	1	995	0.00
AOC13-2	8	807	0.01	1	807	0.00

Notes: mg = milligrams

AHCAC = available hexavalent chromium attenuation capacity

Appendix D
Survey Data

Additional Site Investigation Report

Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1

Burbank, California

SOIL BORINGS					
WELL	NORTH	EAST	LATITUDE (DD)	LONGITUDE (DD)	NG (ELEVATION)
AOC1-1	1892299.78	6461721.47	34.1916727	-118.3304991	624.60
AOC2-1	1891890.33	6461998.01	34.1905501	-118.3295802	621.22
AOC3-1	1891996.74	6462486.77	34.1908468	-118.3279652	620.40
AOC5-1	1892137.10	6459733.63	34.1912075	-118.3370707	640.77
AOC6-1	1892272.13	6459974.71	34.1915808	-118.3362750	639.44
AOC7-1	1892299.78	6459576.80	34.1916531	-118.3375911	642.13
AOC7-2	1892256.51	6459609.24	34.1915345	-118.3374833	640.64
AOC8/9-1	1890910.77	6463006.03	34.1878674	-118.3262365	609.58
AOC8/9-2	1890851.08	6463478.11	34.1877076	-118.3246748	609.63
AOC8/9-3	1890860.33	6463487.52	34.1877331	-118.3246438	609.55
AOC8/9-4	1890922.38	6463701.61	34.1879055	-118.3239366	602.21
AOC11-1	1896210.58	6456802.30	34.2023735	-118.3468104	704.72
AOC11-1R	1896215.69	6456800.80	34.2023875	-118.3468154	704.73
AOC11-2	1896153.13	6456817.98	34.2022157	-118.3467578	704.48
AOC12-1	1897664.99	6454001.86	34.2063430	-118.3560890	745.58
AOC13-1	1897129.45	6454841.10	34.2048796	-118.3533071	729.87
AOC13-2	1897168.06	6454886.51	34.2049861	-118.3531574	728.97
AOC14-1	1896487.13	6455628.69	34.2031222	-118.3506949	717.88
AOC15-1	1896206.80	6455760.21	34.2023531	-118.3502567	715.60
AOC16-1	1895784.78	6455378.70	34.2011898	-118.3515136	717.40
AOC16-2	1895777.08	6455495.71	34.2011698	-118.3511265	717.01
AOC17-1	1897284.61	6455314.95	34.2053105	-118.3517418	729.36
AOC17-2	1897323.82	6455506.62	34.2054201	-118.3511083	728.24
AOC18-1	1896670.39	6455475.24	34.2036243	-118.3512045	726.86
AOC18-2	1896580.73	6455508.13	34.2033782	-118.3510947	725.71
AOC18-3	1896503.28	6455519.05	34.2031655	-118.3510577	723.95
AOC19-1	1896824.55	6455350.67	34.2040467	-118.3516183	727.32
AOC19-2	1896814.27	6455476.68	34.2040196	-118.3512014	727.51

Professional's Name:
Armando D. Dupont

Professional's License Type:
Professional Land Surveyor

Professional's License Number:
7780

NOTE:
NG: NATURAL GROUND

BENCHMARK:
THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE C.S.R.C. C.O.R.S. DATA POINT "VDCY"
ELEVATION = 1157.30 FEET (NAVD 88)

COORDINATES:
THE COORDINATES SHOWN HEREON ARE BASED UPON THE STATE PLANE COORDINATE SYSTEM (NAD 83),
CALIFORNIA ZONE 5, BASED UPON STATIC GPS OBSERVATION, HOLDING THE C.S.R.C. C.O.R.S. DATA POINT "VDCY"

SOIL BORINGS					
WELL	NORTH	EAST	LATITUDE (DD)	LONGITUDE (DD)	NG (ELEVATION)
AOC20-1	1895716.50	6450939.68	34.2009587	-118.3661932	736.26
AOC20-2	1895488.67	6451315.42	34.2003364	-118.3649479	733.06
AOC-4	1890312.47	6463340.70	34.1862263	-118.3251234	603.93

Professional's Name:
Armando D. Dupont

Professional's License Type:
Professional Land Surveyor

Professional's License Number:
7780

NOTE:
NG: NATURAL GROUND

BENCHMARK:
THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE C.S.R.C. C.O.R.S. DATA POINT "VDCY"
ELEVATION = 1157.30 FEET (NAVD 88)

COORDINATES:
THE COORDINATES SHOWN HEREON ARE BASED UPON THE STATE PLANE COORDINATE SYSTEM (NAD 83),
CALIFORNIA ZONE 5, BASED UPON STATIC GPS OBSERVATION, HOLDING THE C.S.R.C. C.O.R.S. DATA POINT "VDCY"

Appendix E
Non-Hazardous Waste Manifests

Additional Site Investigation Report

Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1

Burbank, California

1402908361

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CAD045256187	1	909-889-5607	76336 51

GENERATOR

5. Generator's Name and Mailing Address
Lockheed Martin Corporation
2550 N. Hollywood Way. Suite 406
Burbank CA 91505-5047
Generator's Phone: 720 842-6121
Att: Liaht Rosenstein

Generator's Site Address (if different than mailing address)
Lockheed Martin Corporation
1705 Victory Place
Burbank CA 91505

6. Transporter 1 Company Name
~~Haz Mat Trans, Inc~~ K LAC SANROMS, / EPA # CAR000163097
U.S. EPA ID Number
~~CAT080012000~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors
2500 Lokern Road
Buttonwillow CA 92368
Facility's Phone: 805 762-7372
U.S. EPA ID Number
CAD980675270

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous. Non D.O.T. Regulated (drill cutting from soil)	1	CM	20	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
9b.1) Drill Cutting from Soil, Profile # CH862184
24hr Emergency # Provided by Haz Mat Trans, Inc. Gloves & Goggles

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: LIAHT ROSENSTEIN
Signature:
Month: 11 Day: 20 Year: 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JAVIER MONTES
Signature:
Month: 11 Day: 06 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: 11 Day: 06 Year: 17

14D2909364

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CAD045256187	1	909-889-5607	76533 [illegible]

5. Generator's Name and Mailing Address
Lockheed Martin Corporation
2550 N. Hollywood Way, Suite 406
Burbank CA 91505-5047
Attn: Lhant Rosenstein
Generator's Phone: 720 842-6121

Generator's Site Address (if different than mailing address)
Lockheed Martin Corporation
1705 Victory Place
Burbank CA 91505

6. Transporter 1 Company Name: ~~Haz Mat Trans, Inc.~~ [illegible]
U.S. EPA ID Number: ~~CAT080012000~~ CAR000 165 [illegible]

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors
2500 Lokern Road
Buttonwillow CA 93206
Facility's Phone: 805 762-7372
U.S. EPA ID Number: CAD98067 [illegible]

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Hazardous Non D.O.T. Regulated (drill cutting from soil)	1	CM	20	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
9b.1 Drill cutting from soil, [illegible]
24hr Emergency # Provided by Haz Mat Trans, INC [illegible]

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] | Signature: [signature] | Month | Day | Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible handwriting] | Signature: [signature] | Month | Day | Year
Transporter 2 Printed/Typed Name: | Signature: | Month | Day | Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: [illegible] | Signature: [signature] | Month | Day | Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

169-BLC-O 6 10498 (Rev. 9/09) COPY

140290 8547

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: C A D 0 0 0 6 3 0 0 6 1
2. Page 1 of 1
3. Emergency Response Phone: 909-889-5607
4. Waste Tracking Number: 7 6 3 3 3 - 1

5. Generator's Name and Mailing Address
Lockheed Martin Corporation
2550 N. Hollywood Way, Suite 406
Burbank CA 91505-5047
Att: Light Rosenstein

Generator's Phone: 720 8426121

Generator's Site Address (if different than mailing address)
Lockheed Martin Corporation
2801 N. Hollywood Way
Burbank CA 91505

6. Transporter 1 Company Name: Haz Mat Trans, Inc
U.S. EPA ID Number: C A T 0 8 0 0 1 2 8 0 0

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors
2500 Lokern Road
Buttonwillow CA 92368
Facility's Phone: 805 762-7372
U.S. EPA ID Number: C A D 9 8 0 6 7 5 2 7 6

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non Hazardous, Non D.O.T. Regulated (drill cutting from soil)	1	CM	20	YD
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
9BL.1) Drill Cutting from Soil, Profile # [illegible]
24hr Emergency # Provided by Haz Mat Trans, Inc. Gloves & Goggles

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible]   Signature: [signature]   Month / Day / Year: [illegible] / [illegible] / 14

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] Burlington   Signature: [signature]   Month / Day / Year: 11 / 6 / 14
Transporter 2 Printed/Typed Name   Signature   Month / Day / Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)   U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)   Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: [illegible]   Signature: [signature]   Month / Day / Year: 11 / 06 / [illegible]

169-BLC-O 6 10498 (Rev. 9/09)

COPY

140210 8547

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAD000630061	1	909-889-5607	76334-1

GENERATOR

5. Generator's Name and Mailing Address
Lockheed Martin Corporation
2550 N. Hollywood Way, Suite 406
Burbank CA 91505-5047
Attn: Liahl Rosenstein
Generator's Phone: 720 8426121

Generator's Site Address (if different than mailing address)
Lockheed Martin Corporation
2801 N. Hollywood Way
Burbank CA 91505

6. Transporter 1 Company Name
Haz Mat Trans, Inc
U.S. EPA ID Number
CAT080012800

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors
2500 Lokern Road
Buttonwillow CA 93268
Facility's Phone: 805 762-7372
U.S. EPA ID Number
CAD980675276

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous, Non D.O.T. Regulated (drill cutting from soil)	1	CM	20	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
9b.1) Drill Cutting from Soil, Profile # CH8B2295
24hr Emergency # Provided by Haz Mat Trans, Inc. Gloves & Goggles

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: LIAHL ROSENSTEIN
Signature:
Month: 10 Day: 29 Year: 14

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: BRUCE YOUNG
Signature:
Month: 11 Day: 6 Year: 14

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

169-BLC-O/6 10498 (Rev. 9/09)

TRANSPORTER #2

Appendix F
Laboratory Analytical Reports

Additional Site Investigation Report

Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1

Burbank, California

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**17**
Date Received	**09/02/2014**
Date Reported	**09/11/2014**

Job Number	Order Date	Client
74237	09/02/2014	T/TSB2

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 7 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74237

CHAIN OF CUSTODY RECORD

DATE 9/2/2014 PAGE 1 OF 2

CLIENT: LMC
PROJECT NAME: BURBANK METALS INV.
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32935/Tm-B1,03
SAMPLERS (Signatures): D. McAlister

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 Cr	7199 Cr6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC8/9-1-5	9-2-14	1045	X	X		X	S	SB	1	NR	74237.01
2.	AOC8/9-1-10		1055			X						74237.02
3.	AOC8/9-1-15		1100	X	X							74237.03
4.	AOC8/9-1-20		1105			X						74237.04
5.	AOC8/9-1-25		1115	X	X							74237.05
6.	AOC8/9-1-30		1120			X						74237.06
7.	AOC8/9-1-35		1133			X						74237.07
8.	AOC8/9-1-40		1145	X	X							74237.08
9.	AOC8/9-1-45		1150	X	X							74237.09
10.	AOC8/9-1-45-DUP		1151	X	X							74237.10

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL

FILTERING: ☐ FILTERED ☐ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
D. McALISTER		TETRA TECH, INC.	9-2-14	1630	10
RECEIVED BY: Sanjis-P	SIGNATURE	COMPANY: AGTL	DATE: 9/2/14	TIME: 1630	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: Sanjis-P	SIGNATURE	COMPANY: AGTL	DATE: 9/2/14	TIME: 1715	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Leon Lande	SIGNATURE	COMPANY: AETL	DATE: 09/02/14	TIME: 1715	

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DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

CHAIN OF CUSTODY RECORD

77237

DATE 9-2-2014 PAGE 2 OF 2

CLIENT: LMC

PROJECT NAME: BURBANK METALS INV.

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBO-T32955 / TM-B1.03

SAMPLERS (Signature)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr 6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC 8/9-1-50	9-2-14	1155			X	U	S	SB	1	NR	77237.11
2.	AOC 8/9-1-55	↓	1200	X	X		↓	↓	↓	↓	↓	77237.12
3.	AOC 8/9-1-60		1210			X						77237.13
4.	EB-090214-A	↓	924	X	X		↓	↓	~~SB~~ P	~~1~~ 3	~~NR~~ HCL	77237.14
5.												
6.												
7.												
8.												
9.												
10.												

PARAMETERS

TURN-AROUND TIME

Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
	D McALISTER	TETRA TECH, INC.	9-2-14	1630	10
RECEIVED BY: Sangita P	SIGNATURE	COMPANY: AETL	DATE: 9/2/14	TIME: 1630	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: Sangita P	SIGNATURE	COMPANY: AETL	DATE: 9/2/14	TIME: 1715	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Vande	SIGNATURE	COMPANY: AETL	DATE: 9/02/14	TIME: 1715	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74237

CHAIN OF CUSTODY RECORD

DATE 9/2/2014 PAGE 1 OF 2

CLIENT: LMC
PROJECT NAME: BURBANK METALS INV.
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32935/TM-B1,03
SAMPLERS (Signatures): D. McAlister

LINE ITEM	SAMPLE NO.	DATE	TIME	Gozo Cr	7199 Cr 6+	HOLD	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC8/9-1-5	9-2-14	1045	X	X		*	X	S	SB	1	NR	74237.01
2.	AOC8/9-1-10		1055			X							74237.02
3.	AOC8/9-1-15		1100	X	X		*						74237.03
4.	AOC8/9-1-20		1105			X							74237.04
5.	AOC8/9-1-25		1115	X	X		*						74237.05
6.	AOC8/9-1-30		1120			X							74237.06
7.	AOC8/9-1-35		1133			X							74237.07
8.	AOC8/9-1-40		1145	X	X		*						74237.08
9.	AOC8/9-1-45		1150	X	X		*						74237.09
10.	AOC8/9-1-45-DUP		1151	X	X		*						74237.10

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL
*-Report all results in Dry Weight

FILTERING: ☐ FILTERED ☐ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
D. McALISTER		TETRA TECH, INC.	9-2-14	1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: Sargis-F		COMPANY: AGTL	DATE: 9/2/14	TIME: 1630	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: Sargis-F		COMPANY: AETL	DATE: 9/2/14	TIME: 1715	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Leon Saude		COMPANY: AETL	DATE: 09/02/14	TIME: 1715	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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TETRA TECH, INC.
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San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

CHAIN OF CUSTODY RECORD

77237

DATE 9-2-2014 PAGE 2 OF 2

CLIENT: LMC

PROJECT NAME: BURBANK METALS INV.

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBO-T32955 / TM-B1.03

SAMPLERS (Signature)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr 6+	HOLD	MOISTURE	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC 8/9-1-50	9-2-14	1155			X		U	S	SB	1	NR	77237.11
2.	AOC 8/9-1-55	↓	1200	X	X		*	↓	↓	↓	↓	↓	77237.12
3.	AOC 8/9-1-66		1210			X							77237.13
4.	EB-090214-A		924	X	X								77237.14
5.													
6.													
7.													
8.													
9.													
10.													

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

	SIGNATURE		DATE	TIME	
RELINQUISHED BY	QMcALISTER	TETRA TECH, INC.	9-2-14	1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY		COMPANY AETL	DATE 9/2/14	TIME 1630	METHOD OF SHIPMENT/SHIPMENT NO. COURIER
RELINQUISHED BY		COMPANY AETL	DATE 9/2/14	TIME 1715	Special Shipping/Handling/Storage Requirements:
RECEIVED BY		COMPANY AETL	DATE 09/02/14	TIME 1715	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

COOLER RECEIPT FORM

Client Name: Tetra Tech

Project Name:

AETL Job Number: 74237 & 74238

Date Received: 09/02/14 Received by: Jean Laude

Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.2 °C, No 2: _____, No 3:

Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): brass sleeves

How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, ☒ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	✓		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955/TM-B1
Date Received 09/02/2014
Date Reported 09/11/2014

Job Number	Order Date	Client
74237	09/02/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 14 samples with the following specification on 09/02/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74237.14	EB-090214-A	09/02/2014	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/09/2014	2	Normal	mg/L
7199 ^ MG/L	09/09/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74237.01	AOC8/9-1-5	09/02/2014	Soil	1
74237.03	AOC8/9-1-15	09/02/2014	Soil	1
74237.05	AOC8/9-1-25	09/02/2014	Soil	1
74237.08	AOC8/9-1-40	09/02/2014	Soil	1
74237.09	AOC8/9-1-45	09/02/2014	Soil	1
74237.10	AOC8/9-1-45-DUP	09/02/2014	Soil	1
74237.12	AOC8/9-1-55	09/02/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/09/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/09/2014	2	Normal	mg/Kg
ASTM-D2216	09/09/2014	2	Normal	% wt

74237.02	AOC8/9-1-10	09/02/2014	Soil	1
74237.04	AOC8/9-1-20	09/02/2014	Soil	1
74237.06	AOC8/9-1-30	09/02/2014	Soil	1
74237.07	AOC8/9-1-35	09/02/2014	Soil	1
74237.11	AOC8/9-1-50	09/02/2014	Soil	1
74237.13	AOC8/9-1-60	09/02/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/09/2014	2	Normal	--

Continued

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955/TM-B1
Date Received 09/02/2014
Date Reported 09/11/2014

Job Number	Order Date	Client
74237	09/02/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/05/2014				
Preparation Method			3050B				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **3**

Site

Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C2

Our Lab I.D.			74237.01				
Client Sample I.D.			AOC8/9-1-5				
Date Sampled			09/02/2014				
Date Prepared			09/05/2014				
Preparation Method			3050B				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	15.6				

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **4**

Site

Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C2

Our Lab I.D.			74237.03				
Client Sample I.D.			AOC8/9-1-15				
Date Sampled			09/02/2014				
Date Prepared			09/05/2014				
Preparation Method			3050B				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			200				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	7	20	461				

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Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C2

Our Lab I.D.			74237.05	74237.08	74237.09	74237.10	74237.12
Client Sample I.D.			AOC8/9-1-25	AOC8/9-1-40	AOC8/9-1-45	AOC8/9-1-45 -DUP	AOC8/9-1-55
Date Sampled			09/02/2014	09/02/2014	09/02/2014	09/02/2014	09/02/2014
Date Prepared			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	3.74	15.8	20.2	23.2	22.6

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Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1

Our Lab I.D.			Method Blank	74237.01			
Client Sample I.D.				AOC8/9-1-5			
Date Sampled				09/02/2014			
Date Prepared			09/03/2014	09/03/2014			
Preparation Method			3060A	3060A			
Date Analyzed			09/03/2014	09/03/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.10	0.10	ND	0.610			

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Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1

Our Lab I.D.			74237.03				
Client Sample I.D.			AOC8/9-1-15				
Date Sampled			09/02/2014				
Date Prepared			09/03/2014				
Preparation Method			3060A				
Date Analyzed			09/03/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (VI)	1.00	1.00	32.0				

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Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1

Our Lab I.D.			74237.05	74237.08	74237.09	74237.10	74237.12
Client Sample I.D.			AOC8/9-1-25	AOC8/9-1-40	AOC8/9-1-45	AOC8/9-1-45 -DUP	AOC8/9-1-55
Date Sampled			09/02/2014	09/02/2014	09/02/2014	09/02/2014	09/02/2014
Date Prepared			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	1.55

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Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090314-1

Our Lab I.D.			Method Blank	74237.01	74237.03	74237.05	74237.08
Client Sample I.D.				AOC8/9-1-5	AOC8/9-1-15	AOC8/9-1-25	AOC8/9-1-40
Date Sampled				09/02/2014	09/02/2014	09/02/2014	09/02/2014
Date Prepared			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	5.50	9.70	2.70	3.20

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Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090314-1

Our Lab I.D.			74237.09	74237.10	74237.12		
Client Sample I.D.			AOC8/9-1-45	AOC8/9-1-45 -DUP	AOC8/9-1-55		
Date Sampled			09/02/2014	09/02/2014	09/02/2014		
Date Prepared			09/03/2014	09/03/2014	09/03/2014		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/04/2014	09/04/2014	09/04/2014		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	9.20	8.80	15.4		

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Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0905141C4

Our Lab I.D.			Method Blank	74237.14			
Client Sample I.D.				EB-090214-A			
Date Sampled				09/02/2014			
Date Prepared			09/05/2014	09/05/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/08/2014	09/08/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1

Our Lab I.D.			Method Blank	74237.14			
Client Sample I.D.				EB-090214-A			
Date Sampled				09/02/2014			
Date Prepared			09/03/2014	09/03/2014			
Preparation Method			7199	7199			
Date Analyzed			09/03/2014	09/03/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0905141C4; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/08/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	95.0	0.0100	0.0100	86.4	9.48	75-125	<15

QC Batch No: 0905141C4; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/08/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	95.7	0.0100	0.0100	96.3	<1	75-125	<15	

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Burbank Metals

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Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/03/2014; QC Analyzed: 09/03/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.353M	35.3	1.00	0.455M	45.5	25.2	80-120	<20

QC Batch No: 090314-1; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/03/2014; QC Analyzed: 09/03/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.822	82.2	1.00	0.849	84.9	3.2	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C2; Dup or Spiked Sample: 74237.01; LCS: Clean Sand; QC Prepared: 09/05/2014; QC Analyzed: 09/10/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	14.7	10.0	24.0	93.0	10.0	24.7	100	7.25	75-125	<15

QC Batch No: 0905141C2; Dup or Spiked Sample: 74237.01; LCS: Clean Sand; QC Prepared: 09/05/2014; QC Analyzed: 09/10/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	1.04	104	1.00	1.05	105	<1	75-125	<15	

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Burbank Metals

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Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1; Dup or Spiked Sample: 73237.01; LCS: Clean Sand; QC Prepared: 09/03/2014; QC Analyzed: 09/03/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.576	0.250	0.856	112	0.250	0.849	109	2.7	80-120	<20

QC Batch No: 090314-1; Dup or Spiked Sample: 73237.01; LCS: Clean Sand; QC Prepared: 09/03/2014; QC Analyzed: 09/03/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.278	111	0.250	0.288	115	3.5	80-120	<20	

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Burbank Metals

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Project ID: 100-SBO-T32955/TM-B1
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74237	09/02/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090314-1; Dup or Spiked Sample: 74237.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	5.50	5.10	7.5	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Number of Pages	**35**
Date Received	**09/02/2014**
Date Reported	**09/15/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74238	09/02/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 16 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

74238

DATE 09/02/14 PAGE 1 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soil Investigation

PROJECT MANAGER: T. Villeneuve/M. Wenbager

TC #:

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Hexchrom SW7199	HOLD	8260B	#	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	EB-090214-B	09/02/14	0930	X	X		X		U	W	G/P	5	see label	74238.01
2.	AOC8/9-2-5		1024	X	X					S	SB	1	NR	74238.02
3.	AOC8/9-2-10		1029	X	X	X						1	NR	74238.03
4.	AOC8/9-2-15		1036	X	X							1	NR	74238.04
5.	AOC8/9-2-20		1042	X	X	X						1	NR	74238.05
6.	AOC8/9-2-25		1049	X	X	X						1	NR	74238.06
7.	AOC8/9-2-30		1056	X	X							1	NR	74238.07
8.	AOC8/9-2-35		1101	X	X	X						1	NR	74238.08
9.	AOC8/9-2-40		1107	X	X							1	NR	74238.09
10.	AOC8/9-2-45		1111	X	X							1	NR	74238.10

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
Philip Henderson		TETRA TECH, INC.	09/02/14	1630
RECEIVED BY: Sangis-P		AGTL	9/2/14	1630
RELINQUISHED BY: Sangis-P		AGTL	9/2/14	1715
RECEIVED BY: Sue Claude		AGTL	09/02/14	1715

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14 of 32

METHOD OF SHIPMENT/SHIPMENT NO.: Courrier

Special Shipping/Handling/Storage Requirements:

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DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74238

DATE 09/02/14 PAGE 2 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soil Investigation

PROJECT MANAGER: T Villeneuve/M. Weinberger

TC #:

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Hex Chrom SW7196	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC8/9-2-50	09/02/14	1123	X	X	X	V	S	SB	1	NR	74238.11
2.	AOC8/9-2-55		1128	X	X				SB	1	NR	74238.12
3.	AOC8/9-2-60		1130	X	X	X			SB	1	NR	74238.13
4.	AOC8/9-2-40-DVP		1108	X	X				G	1	NR	74238.14
5.	AOC8/9-2-60-DVP		1131	X	X				G	1	NR	74238.15
6.	AOC8/9-3-5		1435	X	X				SB	1	NR	74238.16
7.	AOC8/9-3-10		1440	X	X	X				1	NR	74238.17
8.	AOC8/9-3-15		1442	X	X					1	NR	74238.18
9.	AOC8/9-3-20		1447	X	X	X				1	NR	74238.19
10.	AOC8/9-3-25		1449	X	X		↓	↓	↓	1	NR	74238.20

PARAMETERS

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
Philip Henderson		TETRA TECH, INC.	09/02/14	1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10 of 32
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Sargis P		AETL	9/2/14	1630	courier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
Sargis P		AETL	9/2/14	1715	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Jean Daude		AETL	09/02/14	1715	

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CHAIN OF CUSTODY RECORD

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FAX: (909) 889-1391

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74238

DATE 09/02/14 PAGE 3 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #:

SAMPLERS (Signature): _____

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Hex chrom SW7199	Hold	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC8/9-3-30	09/02/14	1454	X	X	X	U	S	SB	1	NR	74238.21
2.	AOC8/9-3-35		1459	X	X	X				1		74238.22
3.	AOC8/9-3-40		1502	X	X					1		74238.23
4.	AOC8/9-3-45		1506	X	X					1		74238.24
5.	AOC8/9-3-50		1510			X				1		74238.25
6.	AOC8/9-3-55		1514	X	X					1		74238.26
7.	AOC8/9-3-60		1520			X				1		74238.27
8.	AOC 8/9-3-55-DUP	09/02/14	1515	X	X				G	1		74238.28
9.												
10.												

Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
Philip Henderson		TETRA TECH, INC.	09/02/14	1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 8 of 32
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Sanjisp		AGTC	9/2/14	1630	courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
Sanjisp		AGTC	9/2/14	1715	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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CHAIN OF CUSTODY RECORD

DATE 09/02/14 PAGE 1 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soil Investigation
PROJECT MANAGER: T. Villeneuve / M. Weinberg
TC #:
SAMPLERS (Signatures): Philip Henderson

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Hex Chrom SW7199	HOLD	8260B	% Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	EB-090214-B	09/02/14	0930	X	X		X		U	W	G/P	5	see lab	74238.01
2.	AOC8/9-2-5		1024	X	X			*		S	SB	1	NR	74238.02
3.	AOC8/9-2-10		1029	X	X	X						1	NR	74238.03
4.	AOC8/9-2-15		1036	X	X			*				1	NR	74238.04
5.	AOC8/9-2-20		1042	X	X	X						1	NR	74238.05
6.	AOC8/9-2-25		1049	X	X	X						1	NR	74238.06
7.	AOC8/9-2-30		1056	X	X			*				1	NR	74238.07
8.	AOC8/9-2-35		1101	X	X	X						1	NR	74238.08
9.	AOC8/9-2-40		1107	X	X			*				1	NR	74238.09
10.	AOC8/9-2-45	↓	1111	X	X			*	↓	↓	↓	1	NR	74238.10

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL
*- Report all results in Dry Weight

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
Philip Henderson		TETRA TECH, INC.	09/02/14	1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14 of 32
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Sangis-P		AGTL	9/2/14	1630	Courier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
Sangis-P		AGTL	9/2/14	1715	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Sara Conde		AETL	09/02/14	1715	

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CHAIN OF CUSTODY RECORD

74238

DATE 09/02/14 PAGE 2 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soil Investigation

PROJECT MANAGER: T Villeneuve/M. Weinberger

TC #:

SAMPLERS (Signature): Philip Henderson

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Hexavalent Chromium SW7199	HOLD	Moisture	SW 6020 G	SW 7199 G VI	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC8/9-2-50	09/02/14	1123	X	X	X				V	S	SB	1	NR	74238.11
2.	AOC8/9-2-55		1128	X	X		*					SB	1	NR	74238.12
3.	AOC8/9-2-60		1130	X	X	X	*	*	*			SB	1	NR	74238.13
4.	AOC8/9-2-40-DVP		1108	X	X		*					G	1	NR	74238.14
5.	AOC8/9-2-60-DVP		1131	X	X		*					G	1	NR	74238.15
6.	AOC8/9-3-5		1435	X	X		*					SB	1	NR	74238.16
7.	AOC8/9-3-10		1440	X	X	X							1	NR	74238.17
8.	AOC8/9-3-15		1442	X	X		*						1	NR	74238.18
9.	AOC8/9-3-20		1447	X	X	X							1	NR	74238.19
10.	AOC8/9-3-25		1449	X	X		*			↓	↓	↓	1	NR	74238.20

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL * Added by CR as per Mike 09/11/2014

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
Philip Henderson	Philip Henderson	TETRA TECH, INC.	09/02/14	1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10 of 32
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Sargis P		AETL	9/2/14	1630	Courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
Sargis P		AETL	9/2/14	1715	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Sean Daude		AETL	09/02/14	1715	

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San Bernardino, California 92408
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SHIP TO: _____

74238

CHAIN OF CUSTODY RECORD

DATE 09/02/14 PAGE 3 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/H. Weinberger

TC #:

SAMPLERS (Signature): Philip Henderson

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Hex chrom SW7199	Hold	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC8/9-3-30	09/02/14	1454	~~X~~	~~X~~	X		U	S	SB	1	NR	74238.21
2.	AOC8/9-3-35		1459	~~X~~	~~X~~	X					1		74238.22
3.	AOC8/9-3-40		1502	X	X		*				1		74238.23
4.	AOC8/9-3-45		1506	X	X		*				1		74238.24
5.	AOC8/9-3-50		1510			X					1		74238.25
6.	AOC8/9-3-55		1514	X	X		*				1		74238.26
7.	AOC8/9-3-60		1520			X					1		~~74238.27~~
8.	AOC8/9-3-55-DUP	09/02/14	1515	X	X		*			G	1		74238.28
9.													
10.													

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 8 of 32
Philip Henderson	Philip Henderson	TETRA TECH, INC.	09/02/14	1630	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Sarg Isaf		AGTL	9/2/14	1630	courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
Sarg Isaf		AGTL	9/2/14	1715	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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CHAIN OF CUSTODY RECORD

74238

DATE 09/02/14 PAGE 1 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soil Investigation

PROJECT MANAGER: T. Villeneuve/M. Wenbogen

TC #:

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium VI SW6020	Hexavalent Chromium SW7199	HOLD	8260B	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	EB-090214-B	09/02/14	0930	X	X		X		U	W	G/P	5	see label	74238.01
2.	AOC8/9-2-5	"	1024	X	X			*		S	SB	1	NP	74238.02
3.	AOC8/9-2-10	"	1029	X	X	X						1	NP	74238.03
4.	AOC8/9-2-15	"	1036	X	X			*				1	NP	74238.04
5.	AOC8/9-2-20	"	1042	X	X	X						1	NP	74238.05
6.	AOC8/9-2-25	"	1049	X	X	X						1	NP	74238.06
7.	AOC8/9-2-30	"	1056	X	X			*				1	NP	74238.07
8.	AOC8/9-2-35	"	1101	X	X	X						1	NP	74238.08
9.	AOC8/9-2-40	"	1107	X	X			*				1	NP	74238.09
10.	AOC8/9-2-45	"	1111	X	X			*	✓	✓	✓	1	NP	74238.10

PARAMETERS

* Adolkol by AETL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SB - Brass Sleeve
SS - Stainless Steel Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
Philip Henderson		TETRA TECH, INC.	09/02/14	1630	14 of 32
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Samples-P		AETL	9/2/14	1630	Courier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
Samples-P		AETL	9/2/14	1715	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Diane Claude		AETL	09/02/14	1715	

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CHAIN OF CUSTODY RECORD

74238

DATE 09/02/14 PAGE 2 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soil Investigation
PROJECT MANAGER: T Villeneuve/M. Weinberger
TC #:
SAMPLERS (Signature): Philip Henderson

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Hexavalent Chromium SW7199	HOLD Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC8/9-2-50	09/02/14	1123	X	X	X	V	S	SB	1	NR	74238.11
2.	AOC8/9-2-55		1128	X	X	*			SB	1	NR	74238.12
3.	AOC8/9-2-60		1130	X	X	X			SB	1	NR	74238.13
4.	AOC8/9-2-40-DUP		1108	X	X	*			G	1	NR	74238.14
5.	AOC8/9-2-60-DUP		1131	X	X	*			G	1	NR	74238.15
6.	AOC8/9-3-5		1435	X	X	*			SB	1	NR	74238.16
7.	AOC8/9-3-10		1440	X	X	X				1	NR	74238.17
8.	AOC8/9-3-15		1442	X	X	*				1	NR	74238.18
9.	AOC8/9-3-20		1447	X	X	X				1	NR	74238.19
10.	AOC8/9-3-25		1449	X	X	*				1	NR	74238.20

Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY: Philip Henderson	SIGNATURE: Philip Henderson	TETRA TECH, INC.	DATE: 09/02/14	TIME: 1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10 of 32
RECEIVED BY: Sargis-P	SIGNATURE	COMPANY: AETL	DATE: 9/2/14	TIME: 1635	METHOD OF SHIPMENT/SHIPMENT NO.: Courier
RELINQUISHED BY: Sargis-P	SIGNATURE	COMPANY: AETL	DATE: 9/2/14	TIME: 1715	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Daude	SIGNATURE	COMPANY: AETL	DATE: 09/02/14	TIME: 1715	

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CHAIN OF CUSTODY RECORD

DATE 09/02/14 PAGE 3 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soils Investigation
PROJECT MANAGER: T. Villeneuve/H. Weinberger
TC #:
SAMPLERS (Signature): Philip Hz

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Hex chrom SW7199	Hold	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC8/9-3-30	09/02/14	1454	~~X~~	~~X~~	X	*	U	S	SB	1	NR	74238.21
2.	AOC8/9-3-35		1459	~~X~~	~~X~~	X					1		74238.22
3.	AOC8/9-3-40		1502	X	X		*				1		74238.23
4.	AOC8/9-3-45		1506	X	X		*				1		74238.24
5.	AOC8/9-3-50		1510			X					1		74238.25
6.	AOC8/9-3-55		1514	X	X		*				1		74238.26
7.	AOC8/9-3-60		1520			X					1		~~74238.27~~
8.	AOC8/9-3-55-DUP	09/02/14	1515	X	X		*			G	1		74238.28
9.													
10.													

Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
Philip Henderson	Philip Hz	TETRA TECH, INC.	09/02/14	1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 8 of 32
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Sergio-P		AGTC	9/2/14	1630	courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
Sergio-P		AGTC	9/2/14	1715	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

COOLER RECEIPT FORM

Client Name: Tetra Tech

Project Name:

AETL Job Number: 74237 & 74238

Date Received: 09/02/14 Received by: Jean Canda

Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.2 °C, No 2: _____, No 3: _____

Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): brass sleeves

How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, ☒ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	✓		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Project ID: 100-SBO-T32955
Date Received 09/02/2014
Date Reported 09/15/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74238	09/02/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 28 samples with the following specification on 09/02/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74238.01	EB-090214-B	09/02/2014	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/09/2014	2	Normal	mg/L
7199 ^ MG/L	09/09/2014	2	Normal	mg/L
8260B ^ BOU	09/09/2014	2	Normal	ug/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74238.02	AOC8/9-2-5	09/02/2014	Soil	1
74238.04	AOC8/9-2-15	09/02/2014	Soil	1
74238.07	AOC8/9-2-30	09/02/2014	Soil	1
74238.09	AOC8/9-2-40	09/02/2014	Soil	1
74238.10	AOC8/9-2-45	09/02/2014	Soil	1
74238.12	AOC8/9-2-55	09/02/2014	Soil	1
74238.13	AOC8/9-2-60	09/02/2014	Soil	1
74238.14	AOC8/9-2-40-DUP	09/02/2014	Soil	1
74238.15	AOC8/9-2-60-DUP	09/02/2014	Soil	1
74238.16	AOC8/9-3-5	09/02/2014	Soil	1
74238.18	AOC8/9-3-15	09/02/2014	Soil	1
74238.20	AOC8/9-3-25	09/02/2014	Soil	1
74238.23	AOC8/9-3-40	09/02/2014	Soil	1
74238.24	AOC8/9-3-45	09/02/2014	Soil	1
74238.26	AOC8/9-3-55	09/02/2014	Soil	1
74238.28	AOC8/9-3-55-DUP	09/02/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/09/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/09/2014	2	Normal	mg/Kg
ASTM-D2216	09/09/2014	2	Normal	% wt

Continued

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Project ID: 100-SBO-T32955
Date Received 09/02/2014
Date Reported 09/15/2014

Job Number	Order Date	Client
74238	09/02/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74238.03	AOC8/9-2-10	09/02/2014	Soil	1
74238.05	AOC8/9-2-20	09/02/2014	Soil	1
74238.06	AOC8/9-2-25	09/02/2014	Soil	1
74238.08	AOC8/9-2-35	09/02/2014	Soil	1
74238.11	AOC8/9-2-50	09/02/2014	Soil	1
74238.17	AOC8/9-3-10	09/02/2014	Soil	1
74238.19	AOC8/9-3-20	09/02/2014	Soil	1
74238.21	AOC8/9-3-30	09/02/2014	Soil	1
74238.22	AOC8/9-3-35	09/02/2014	Soil	1
74238.25	AOC8/9-3-50	09/02/2014	Soil	1
74238.27	AOC8/9-3-60	09/02/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
ARCHIVE	09/09/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
Analytical non-conformances have been noted on the report.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1

Our Lab I.D.			Method Blank	74238.01			
Client Sample I.D.				EB-090214-B			
Date Sampled				09/02/2014			
Date Prepared			09/06/2014	09/06/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/06/2014	09/06/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	10.0	10.0	ND	ND			
Benzene	0.20	0.50	ND	ND			
Bromobenzene (Phenyl bromide)	0.50	1.00	ND	ND			
Bromochloromethane	0.50	1.00	ND	ND			
Bromodichloromethane	0.50	1.00	ND	ND			
Bromoform (Tribromomethane)	0.50	1.00	ND	ND			
Bromomethane (Methyl bromide)	1.50	3.00	ND	ND			
2-Butanone (MEK)	2.50	5.00	ND	ND			
n-Butylbenzene	0.50	1.00	ND	ND			
sec-Butylbenzene	0.50	1.00	ND	ND			
tert-Butylbenzene	0.50	1.00	ND	ND			
Carbon Disulfide	0.50	5.00	ND	ND			
Carbon tetrachloride	0.20	0.50	ND	ND			
Chlorobenzene	0.50	1.00	ND	ND			
Chloroethane	0.50	1.00	ND	ND			
2-Chloroethyl vinyl ether	2.50	5.00	ND	ND			
Chloroform (Trichloromethane)	0.50	1.00	ND	ND			
Chloromethane (Methyl chloride)	1.50	3.00	ND	ND			
2-Chlorotoluene	0.50	1.00	ND	ND			
4-Chlorotoluene	0.50	1.00	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	2.50	5.00	ND	ND			
Dibromochloromethane	0.50	1.00	ND	ND			
1,2-Dibromoethane (EDB)	0.50	1.00	ND	ND			
Dibromomethane	0.50	1.00	ND	ND			
1,2-Dichlorobenzene	0.50	1.00	ND	ND			
1,3-Dichlorobenzene	0.50	1.00	ND	ND			
1,4-Dichlorobenzene	0.50	1.00	ND	ND			

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ANALYTICAL RESULTS

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1

Our Lab I.D.			Method Blank	**74238.01**			
Client Sample I.D.				EB-090214-B			
Date Sampled				09/02/2014			
Date Prepared			09/06/2014	09/06/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/06/2014	09/06/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Dichlorodifluoromethane	0.50	1.00	ND	ND			
1,1-Dichloroethane	0.50	1.00	ND	ND			
1,2-Dichloroethane (EDC)	0.50	1.00	ND	ND			
1,1-Dichloroethene	0.50	1.00	ND	ND			
cis-1,2-Dichloroethene	0.50	1.00	ND	ND			
trans-1,2-Dichloroethene	0.50	1.00	ND	ND			
1,2-Dichloropropane	0.50	1.00	ND	ND			
1,3-Dichloropropane	0.50	1.00	ND	ND			
2,2-Dichloropropane	0.50	1.00	ND	ND			
1,1-Dichloropropene	0.50	1.00	ND	ND			
cis-1,3-Dichloropropene	0.20	0.50	ND	ND			
trans-1,3-Dichloropropene	0.20	0.50	ND	ND			
Ethylbenzene	0.50	1.00	ND	ND			
Hexachlorobutadiene	1.50	3.00	ND	ND			
2-Hexanone	2.50	5.00	ND	ND			
Iodomethane	0.50	1.00	ND	ND			
Isopropylbenzene	0.50	1.00	ND	ND			
p-Isopropyltoluene	0.50	1.00	ND	ND			
4-Methyl-2-pentanone (MIBK)	2.50	5.00	ND	ND			
Methyl-tert-butyl ether (MTBE)	0.50	1.00	ND	ND			
Methylene chloride (DCM)	2.00	4.00	ND	ND			
Naphthalene	0.50	1.00	ND	ND			
n-Propylbenzene	0.50	1.00	ND	ND			
Styrene	0.50	1.00	ND	ND			
1,1,1,2-Tetrachloroethane	0.50	1.00	ND	ND			
1,1,2,2-Tetrachloroethane	0.50	1.00	ND	ND			
Tetrachloroethene	0.50	1.00	ND	ND			
Toluene (Methyl benzene)	0.50	1.00	ND	ND			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	1.00	ND	ND			
1,2,3-Trichlorobenzene	0.50	1.00	ND	ND			
1,2,4-Trichlorobenzene	0.50	1.00	ND	ND			
1,1,1-Trichloroethane	0.50	1.00	ND	ND			
1,1,2-Trichloroethane	0.50	1.00	ND	ND			
Trichloroethene	0.50	1.00	ND	ND			

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ANALYTICAL RESULTS

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1

Our Lab I.D.			Method Blank	**74238.01**			
Client Sample I.D.				EB-090214-B			
Date Sampled				09/02/2014			
Date Prepared			09/06/2014	09/06/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/06/2014	09/06/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Trichlorofluoromethane	0.50	1.00	ND	ND			
1,2,3-Trichloropropane	0.50	1.00	ND	ND			
1,2,4-Trimethylbenzene	0.50	1.00	ND	ND			
1,3,5-Trimethylbenzene	0.50	1.00	ND	ND			
Vinyl Acetate	0.50	5.00	ND	ND			
Vinyl chloride (Chloroethene)	0.20	0.50	ND	ND			
o-Xylene	0.50	1.00	ND	ND			
m,p-Xylenes	0.50	1.00	ND	ND			
Our Lab I.D.			Method Blank	**74238.01**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		106	106			
Dibromofluoromethane	75-125		96.8	97.8			
Toluene-d8	75-125		103	103			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0905141C4

Our Lab I.D.			Method Blank	74238.01			
Client Sample I.D.				EB-090214-B			
Date Sampled				09/02/2014			
Date Prepared			09/05/2014	09/05/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/08/2014	09/08/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1

Our Lab I.D.			Method Blank	74238.01			
Client Sample I.D.				EB-090214-B			
Date Sampled				09/02/2014			
Date Prepared			09/03/2014	09/03/2014			
Preparation Method			7199	7199			
Date Analyzed			09/03/2014	09/03/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/05/2014				
Preparation Method			3050B				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3

Our Lab I.D.			74238.02	74238.04			
Client Sample I.D.			AOC8/9-2-5	AOC8/9-2-15			
Date Sampled			09/02/2014	09/02/2014			
Date Prepared			09/05/2014	09/05/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/10/2014	09/10/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.350	1.000	3.71	16.6			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3

Our Lab I.D.			74238.07				
Client Sample I.D.			AOC8/9-2-30				
Date Sampled			09/02/2014				
Date Prepared			09/05/2014				
Preparation Method			3050B				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	3.500	10	109				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3

Our Lab I.D.			74238.09	74238.10	74238.12		
Client Sample I.D.			AOC8/9-2-40	AOC8/9-2-45	AOC8/9-2-55		
Date Sampled			09/02/2014	09/02/2014	09/02/2014		
Date Prepared			09/05/2014	09/05/2014	09/05/2014		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			09/10/2014	09/10/2014	09/10/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium	0.350	1.000	19.8	20.8	49.3		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/11/2014				
Preparation Method			3050B				
Date Analyzed			09/12/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C1

Our Lab I.D.			74238.13				
Client Sample I.D.			AOC8/9-2-60				
Date Sampled			09/02/2014				
Date Prepared			09/11/2014				
Preparation Method			3050B				
Date Analyzed			09/12/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	4.40				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3

Our Lab I.D.			74238.14	74238.15	74238.16	74238.18	74238.20
Client Sample I.D.			AOC8/9-2-40 -DUP	AOC8/9-2-60 -DUP	AOC8/9-3-5	AOC8/9-3-15	AOC8/9-3-25
Date Sampled			09/02/2014	09/02/2014	09/02/2014	09/02/2014	09/02/2014
Date Prepared			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	16.8	3.48	8.92	23.8	9.93

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3

Our Lab I.D.			74238.23	74238.24			
Client Sample I.D.			AOC8/9-3-40	AOC8/9-3-45			
Date Sampled			09/02/2014	09/02/2014			
Date Prepared			09/05/2014	09/05/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/10/2014	09/10/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.350	1.000	24.4	18.3			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3

Our Lab I.D.			74238.26	74238.28			
Client Sample I.D.			AOC8/9-3-55	AOC8/9-3-55 -DUP			
Date Sampled			09/02/2014	09/02/2014			
Date Prepared			09/05/2014	09/05/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/10/2014	09/10/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			20	20			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.700	2.000	51.5	51.7			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1

Our Lab I.D.			Method Blank	74238.02	74238.04	74238.07	74238.09
Client Sample I.D.				AOC8/9-2-5	AOC8/9-2-15	AOC8/9-2-30	AOC8/9-2-40
Date Sampled				09/02/2014	09/02/2014	09/02/2014	09/02/2014
Date Prepared			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	1.39	7.10	5.36

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1

Our Lab I.D.			74238.10	74238.12			
Client Sample I.D.			AOC8/9-2-45	AOC8/9-2-55			
Date Sampled			09/02/2014	09/02/2014			
Date Prepared			09/03/2014	09/03/2014			
Preparation Method			3060A	3060A			
Date Analyzed			09/03/2014	09/03/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.10	0.10	9.06	7.53			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1

Our Lab I.D.			Method Blank	**74238.13**			
Client Sample I.D.				AOC8/9-2-60			
Date Sampled				09/02/2014			
Date Prepared			09/12/2014	09/12/2014			
Preparation Method			3060A	3060A			
Date Analyzed			09/12/2014	09/12/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.10	0.10	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1

Our Lab I.D.			74238.14	74238.15	74238.16	74238.18	74238.20
Client Sample I.D.			AOC8/9-2-40 -DUP	AOC8/9-2-60 -DUP	AOC8/9-3-5	AOC8/9-3-15	AOC8/9-3-25
Date Sampled			09/02/2014	09/02/2014	09/02/2014	09/02/2014	09/02/2014
Date Prepared			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	4.69	ND	ND	1.34	ND

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1

Our Lab I.D.			74238.23	74238.24	74238.26	74238.28	
Client Sample I.D.			AOC8/9-3-40	AOC8/9-3-45	AOC8/9-3-55	AOC8/9-3-55 -DUP	
Date Sampled			09/02/2014	09/02/2014	09/02/2014	09/02/2014	
Date Prepared			09/03/2014	09/03/2014	09/03/2014	09/03/2014	
Preparation Method			3060A	3060A	3060A	3060A	
Date Analyzed			09/03/2014	09/03/2014	09/03/2014	09/03/2014	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Chromium (VI)	0.10	0.10	4.81	3.10	11.4	8.97	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090314-1

Our Lab I.D.			Method Blank	74238.02	74238.04	74238.07	74238.09
Client Sample I.D.				AOC8/9-2-5	AOC8/9-2-15	AOC8/9-2-30	AOC8/9-2-40
Date Sampled				09/02/2014	09/02/2014	09/02/2014	09/02/2014
Date Prepared			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	3.40	13.4	6.30	16.2

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090314-1

Our Lab I.D.			74238.10	74238.12			
Client Sample I.D.			AOC8/9-2-45	AOC8/9-2-55			
Date Sampled			09/02/2014	09/02/2014			
Date Prepared			09/03/2014	09/03/2014			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			09/04/2014	09/04/2014			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	19.1	21.1			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091114-1

Our Lab I.D.			Method Blank	**74238.13**			
Client Sample I.D.				AOC8/9-2-60			
Date Sampled				09/02/2014			
Date Prepared			09/11/2014	09/11/2014			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			09/12/2014	09/12/2014			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	ND	3.70			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090314-1

Our Lab I.D.			74238.14	74238.15	74238.16	74238.18	74238.20
Client Sample I.D.			AOC8/9-2-40 -DUP	AOC8/9-2-60 -DUP	AOC8/9-3-5	AOC8/9-3-15	AOC8/9-3-25
Date Sampled			09/02/2014	09/02/2014	09/02/2014	09/02/2014	09/02/2014
Date Prepared			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	11.1	2.98	7.62	3.71	7.23

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090314-1

Our Lab I.D.			74238.23	74238.24	74238.26	74238.28	
Client Sample I.D.			AOC8/9-3-40	AOC8/9-3-45	AOC8/9-3-55	AOC8/9-3-55 -DUP	
Date Sampled			09/02/2014	09/02/2014	09/02/2014	09/02/2014	
Date Prepared			09/03/2014	09/03/2014	09/03/2014	09/03/2014	
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	
Date Analyzed			09/04/2014	09/04/2014	09/04/2014	09/04/2014	
Matrix			Soil	Soil	Soil	Soil	
Units			% wt	% wt	% wt	% wt	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Moisture Content	0.1	0.1	20.2	10.3	22.7	22.6	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0905141C4; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/08/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	95.0	0.0100	0.0100	86.4	9.48	75-125	<15

QC Batch No: 0905141C4; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/08/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	95.7	0.0100	0.0100	96.3	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1; Dup or Spiked Sample: 74237.01; LCS: Clean Water; QC Prepared: 09/03/2014; QC Analyzed: 09/03/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.353M	35.3	1.00	0.454M	45.4	25.0	80-120	<20

QC Batch No: 090314-1; Dup or Spiked Sample: 74237.01; LCS: Clean Water; QC Prepared: 09/03/2014; QC Analyzed: 09/03/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.822	82.2	1.00	0.849	84.9	3.2	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1; Dup or Spiked Sample: B0906141A1; LCS: Clean Water; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	48.5	97.0	50.0	48.5	97.0	<1	75-125	<20
Chlorobenzene	0.00	50.0	46.3	92.6	50.0	45.4	90.8	1.96	75-125	<20
1,1-Dichloroethene	0.00	50.0	54.5	109	50.0	54.5	109	<1	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	48.6	97.2	50.0	50.5	101	3.83	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	46.9	93.8	50.0	46.0	92.0	1.94	75-125	<20
Trichloroethene	0.00	50.0	54.0	108	50.0	54.0	108	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	45.3	90.5	50.0	45.1	90.2	<1	75-125	<20
Dibromofluoromethane	0.00	50.0	48.7	97.3	50.0	49.9	99.7	2.47	75-125	<20
Toluene-d8	0.00	50.0	51.0	102	50.0	50.5	101	<1	75-125	<20

QC Batch No: 0906141A1; Dup or Spiked Sample: B0906141A1; LCS: Clean Water; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	51.1	102	50.0	50.1	100	1.98	75-125	<20	
Chlorobenzene	50.0	50.9	102	50.0	48.3	97.0	5.03	75-125	<20	
1,1-Dichloroethene	50.0	57.6	115	50.0	56.4	113	1.75	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	47.0	94.0	50.0	47.6	95.0	1.06	75-125	<20	
Toluene (Methyl benzene)	50.0	51.3	103	50.0	48.9	98.0	4.98	75-125	<20	
Trichloroethene	50.0	56.6	113	50.0	54.9	110	2.69	75-125	<20	
LCS										
Chloroform (Trichloromethane)	50.0	50.4	101	50.0	51.0	102	<1	75-125	<20	
Ethylbenzene	50.0	51.8	104	50.0	48.3	97.0	6.97	75-125	<20	
1,1,1-Trichloroethane	50.0	54.4	109	50.0	52.5	105	3.74	75-125	<20	
o-Xylene	50.0	50.6	101	50.0	48.1	96.0	5.08	75-125	<20	
m,p-Xylenes	100	104	104	100	96.5	96.5	7.48	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	45.2	90.3	50.0	45.5	91.0	<1	75-125	<20	
Dibromofluoromethane	50.0	49.1	98.3	50.0	48.9	97.8	<1	75-125	<20	

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QUALITY CONTROL RESULTS

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1; Dup or Spiked Sample: B0906141A1; LCS: Clean Water; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Toluene-d8	50.0	50.9	102	50.0	50.7	101	<1	75-125	<20	

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Ordered By

Tetra Tech, Inc.
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San Bernardino, CA 92408-3559

Telephone: (909)381-1674
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Page: 30

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3; Dup or Spiked Sample: 74238.02; LCS: Clean Sand; QC Prepared: 09/05/2014; QC Analyzed: 09/10/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	3.58	10.0	13.7	101	10.0	13.8	102	<1	75-125	<15

QC Batch No: 0905141C3; Dup or Spiked Sample: 74238.02; LCS: Clean Sand; QC Prepared: 09/05/2014; QC Analyzed: 09/10/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	1.03	103	1.00	0.980	97.7	5.28	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C1; Dup or Spiked Sample: 74311.02; LCS: Clean Sand; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	8.35	10.0	19.0	107	10.0	18.4	101	5.77	75-125	<15

QC Batch No: 0911141C1; Dup or Spiked Sample: 74311.02; LCS: Clean Sand; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.970	96.8	1.00	0.970	96.5	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090314-1; Dup or Spiked Sample: 74238.02; LCS: Clean Sand; QC Prepared: 09/03/2014; QC Analyzed: 09/03/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.263	105	0.250	0.258	103	1.9	80-120	<20

QC Batch No: 090314-1; Dup or Spiked Sample: 74238.02; LCS: Clean Sand; QC Prepared: 09/03/2014; QC Analyzed: 09/03/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.263	105	0.250	0.255	102	2.9	80-120	<20	

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1; Dup or Spiked Sample: 74317.03; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	3.86	0.250	3.88 M	8.3	0.250	3.89 M	12.5	40.4	80-120	<20

QC Batch No: 091214-1; Dup or Spiked Sample: 74317.03; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.280	112	0.250	0.275	110	1.8	80-120	<20	

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090314-1; Dup or Spiked Sample: 74238.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	3.40	3.20	6.1	<20						

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74238	09/02/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091114-1; Dup or Spiked Sample: 74238.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	3.40	3.20	6.1	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**15**
Date Received	**09/03/2014**
Date Reported	**09/11/2014**

Job Number	Order Date	Client
74250	09/03/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 6 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74250

DATE 9-3-2014 PAGE 1 OF 2

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr 6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS: Please report all data to MDL
1.	EB-090314-A	9-3-14	805	X	X		U	W	G/P	5	NP/HNO3	74250.01
2.	AOCB/9-4-10		910	X	X			S	SB	1	NR	74250.02
3.	AOCB/4-4-15		918			X						74250.03
4.	AOCB/9-4-20		922	X	X							74250.04
5.	AOCB/9-4-25		932			X						74250.05
6.	AOCB/9-4-30		938	X	X							74250.06
7.	AOCB/9-4-35		942			X						74250.07
8.	AOCB/9-4-40		956			X						74250.08
9.	AOCB/9-4-45		1005	X	X							74250.09
10.	AOCB/9-4-45+DUP		1006	X	X							74250.10

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
D. MCALISTER		TETRA TECH, INC.	9-3-2014	1635	14
RECEIVED BY: THOMAS	SIGNATURE	COMPANY: AETL	DATE: 9-3-14	TIME: 1635	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: THOMAS	SIGNATURE	COMPANY: AETL	DATE: 9-3-14	TIME: 1650	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: ANTIN	SIGNATURE	COMPANY: AETL	DATE: 09/03/14	TIME: 1650	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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74250

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CHAIN OF CUSTODY RECORD

DATE 9-3-2014 PAGE 2 OF 2

CLIENT: LMC
PROJECT NAME: BURBANK ~~SCPE~~ METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signature)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
				PARAMETERS								Please report all data to MDL
1.	AOC8/9-4-50	9-3-14	1015			X	U	S	SB	1	NR	74250.11
2.	AOC8/9-4-55	"	1020	X	X		"	"	"	"	"	74250.12
3.	AOC8/9-4-60	"	1050			X	"	"	"	"	"	74250.13
4.												
5.												
6.												
7.												
8.												
9.												
10.												

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SB - Brass Sleeve
SS - Stainless Steel Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 3
J McMINSTER		TETRA TECH, INC.	9-3-2014	1635	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
V Hamas		AETL	9-3-14	1635	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
V Hamas		AETL	9-3-14	1650	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Artin		AETL	09/03/14	1650	

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74250

CHAIN OF CUSTODY RECORD

DATE 9-3-2014 PAGE 1 OF 2

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr^{6+}	HOLD	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	EB-090314-A	9-3-14	805	X	X			U	W	G/P	5	HNO3	74250.01
2.	AOC8/9-4-10		910	X	X		*		S	SB	1	NR	74250.02
3.	AOC8/4-4-15		918			X							74250.03
4.	AOC8/9-4-20		922	X	X		*						74250.04
5.	AOC8/9-4-25		932			X							74250.05
6.	AOC8/9-4-30		938	X	X		*						74250.06
7.	AOC8/9-4-35		942			X							74250.07
8.	AOC8/9-4-40		956			X							74250.08
9.	AOC8/9-4-45		1005	X	X		*						74250.09
10.	AOC8/9-4-45+DUP		1006	X	X		*						74250.10

Please report all data to MDL
* Added by AETL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	
D. MCALISTER		TETRA TECH, INC.	9-3-2014	1635	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14
RECEIVED BY THOMAS		AETL	9-3-14	1635	METHOD OF SHIPMENT/SHIPMENT NO. COURIER
RELINQUISHED BY THOMAS		AETL	9-3-14	1650	Special Shipping/Handling/Storage Requirements:
RECEIVED BY Artin		AETL	09/03/14	1650	

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CHAIN OF CUSTODY RECORD

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FAX: (909) 889-1391

SHIP TO: AETL

74250

DATE 9-3-2014 PAGE 2 OF 2

CLIENT: GMC

PROJECT NAME: BURBANK ~~SCOPE~~ METALS

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBO-T32955

SAMPLERS (Signature)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr6+	HOLD	Moisture										FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC8/9-4-50	9-3-14	1015			X											U	S	SB	1	NR	74250.11
2.	AOC8/9-4-55	"	1020	X	X		*										"	"	"	"	"	74250.12
3.	AOC8/9-4-60	"	1050			X											"	"	"	"	"	74250.13
4.																						
5.																						
6.																						
7.																						
8.																						
9.																						
10.																						

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SB - Brass Sleeve
SS - Stainless Steel Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	
MCMASTER		TETRA TECH, INC.	9-3-2014	1635	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 3
RECEIVED BY: THOMAS	SIGNATURE	COMPANY: AETL	DATE: 9-3-14	TIME: 1635	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: THOMAS	SIGNATURE	COMPANY: AETL	DATE: 9-3-14	TIME: 1650	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Antin	SIGNATURE	COMPANY: AETL	DATE: 09/03/14	TIME: 1650	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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COOLER RECEIPT FORM

Client Name: Tetra Tech
Project Name:
AETL Job Number: 74250
Date Received: 09/03/14 Received by: Artin
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.1°C, No 2: _____, No 3: _____
Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, X HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	X		
2. Are the Sample labels legible?	X		
3. Do samples match the COC?	X		
4. Are the required analyses clear?	X		
5. Is there enough samples for required analysis?	X		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	X		
8. Are samples preserved?	X		
9. Are samples preserved properly for the intended analysis?	X		
10. Are the VOAs free of headspace?	X		
11. Are the jars free of headspace?	N/A		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/03/2014
Date Reported 09/11/2014

Job Number	Order Date	Client
74250	09/03/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 13 samples with the following specification on 09/03/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74250.01	EB-090314-A	09/03/2014	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/10/2014	2	Normal	mg/L
7199 ^ MG/L	09/10/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74250.02	AOC8/9-4-10	09/03/2014	Soil	1
74250.04	AOC8/9-4-20	09/03/2014	Soil	1
74250.06	AOC8/9-4-30	09/03/2014	Soil	1
74250.09	AOC8/9-4-45	09/03/2014	Soil	1
74250.10	AOC8/9-4-45-DUP	09/03/2014	Soil	1
74250.12	AOC8/9-4-55	09/03/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/10/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/10/2014	2	Normal	mg/Kg
ASTM-D2216	09/10/2014	2	Normal	% wt

74250.03	AOC8/9-4-15	09/03/2014	Soil	1
74250.05	AOC8/9-4-25	09/03/2014	Soil	1
74250.07	AOC8/9-4-35	09/03/2014	Soil	1
74250.08	AOC8/9-4-40	09/03/2014	Soil	1
74250.11	AOC8/9-4-50	09/03/2014	Soil	1
74250.13	AOC8/9-4-60	09/03/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/10/2014	2	Normal	--

Continued

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Tetra Tech, Inc. 301 E. Vanderbilt Way Suite 450 San Bernardino, CA 92408-3559	Project ID: 100-SBO-T32955 Date Received 09/03/2014 Date Reported 09/11/2014
Telephone: (909)381-1674 Attention: Michael Weinberger	

Job Number	Order Date	Client
74250	09/03/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0905141C4

Our Lab I.D.			Method Blank	**74250.01**			
Client Sample I.D.				EB-090314-A			
Date Sampled				09/03/2014			
Date Prepared			09/05/2014	09/05/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/08/2014	09/08/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090414-1

Our Lab I.D.			Method Blank	**74250.01**			
Client Sample I.D.				EB-090314-A			
Date Sampled				09/03/2014			
Date Prepared			09/04/2014	09/04/2014			
Preparation Method			7199	7199			
Date Analyzed			09/04/2014	09/04/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/05/2014				
Preparation Method			3050B				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C2

Our Lab I.D.			74250.02	74250.04	74250.06	74250.09	74250.10
Client Sample I.D.			AOC8/9-4-10	AOC8/9-4-20	AOC8/9-4-30	AOC8/9-4-45	AOC8/9-4-45-DUP
Date Sampled			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Date Prepared			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	19.6	5.84	13.8	35.4	14.1

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C2

Our Lab I.D.			74250.12				
Client Sample I.D.			AOC8/9-4-55				
Date Sampled			09/03/2014				
Date Prepared			09/05/2014				
Preparation Method			3050B				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	7.55				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090414-1

Our Lab I.D.			Method Blank	74250.02	74250.04	74250.06	74250.09
Client Sample I.D.				AOC8/9-4-10	AOC8/9-4-20	AOC8/9-4-30	AOC8/9-4-45
Date Sampled				09/03/2014	09/03/2014	09/03/2014	09/03/2014
Date Prepared			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	3.88	0.338	ND	0.433

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090414-1

Our Lab I.D.			74250.10	74250.12			
Client Sample I.D.			AOC8/9-4-45-DUP	AOC8/9-4-55			
Date Sampled			09/03/2014	09/03/2014			
Date Prepared			09/04/2014	09/04/2014			
Preparation Method			3060A	3060A			
Date Analyzed			09/04/2014	09/04/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.10	0.10	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090414-1

Our Lab I.D.			Method Blank	74250.02	74250.04	74250.06	74250.09
Client Sample I.D.				AOC8/9-4-10	AOC8/9-4-20	AOC8/9-4-30	AOC8/9-4-45
Date Sampled				09/03/2014	09/03/2014	09/03/2014	09/03/2014
Date Prepared			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	8.00	2.40	8.60	22.6

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090414-1

Our Lab I.D.			74250.10	74250.12			
Client Sample I.D.			AOC8/9-4-45-DUP	AOC8/9-4-55			
Date Sampled			09/03/2014	09/03/2014			
Date Prepared			09/04/2014	09/04/2014			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			09/05/2014	09/05/2014			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	6.70	8.30			

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Site

Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0905141C4; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/08/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	95.0	0.0100	0.0100	86.4	9.48	75-125	<15

QC Batch No: 0905141C4; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/08/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	95.7	0.0100	0.0100	96.3	<1	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090414-1; Dup or Spiked Sample: 74250.01; LCS: Clean Water; QC Prepared: 09/04/2014; QC Analyzed: 09/04/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.500	0.390M	78.0	0.500	0.365M	73.0	6.6	80-120	<20

QC Batch No: 090414-1; Dup or Spiked Sample: 74250.01; LCS: Clean Water; QC Prepared: 09/04/2014; QC Analyzed: 09/04/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.863	86.3	1.00	0.809	80.9	6.5	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C2; Dup or Spiked Sample: 74250.02; LCS: Clean Sand; QC Prepared: 09/05/2014; QC Analyzed: 09/10/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	18.0	10.0	29.1	111	10.0	31.1 M	131	16.5	75-125	<15

QC Batch No: 0905141C2; Dup or Spiked Sample: 74250.02; LCS: Clean Sand; QC Prepared: 09/05/2014; QC Analyzed: 09/10/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	1.00	99.6	1.00	0.990	98.8	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090414-1; Dup or Spiked Sample: 74250.02; LCS: Clean Sand; QC Prepared: 09/04/2014; QC Analyzed: 09/04/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	3.57	0.250	3.90 M	130	0.250	3.86	115	12.2	80-120	<20

QC Batch No: 090414-1; Dup or Spiked Sample: 74250.02; LCS: Clean Sand; QC Prepared: 09/04/2014; QC Analyzed: 09/04/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.248	99.2	0.250	0.238	95.2	4.1	80-120	<20	

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QUALITY CONTROL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

Page: **15**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74250	09/03/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090414-1; Dup or Spiked Sample: 74250.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	8.00	8.00	<1	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**20**
Date Received	**09/03/2014**
Date Reported	**09/11/2014**

Job Number	Order Date	Client
74251	09/03/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 15 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74251

CHAIN OF CUSTODY RECORD

DATE 9-3-14 PAGE 1 OF 4

CLIENT: LMC
PROJECT NAME: DURBANK MEDIANS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr 6+	140LD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	EB-090314-B	09/03/14	900	X	X		U	W	G/P	5	NP/HCL	74251-01
2.	AOC1-1-5		1020			X		S	SB	1	NR	74251.02
3.	AOC 1-1-10		1025	X	X							74251.03
4.	AOC 1-1-15		1031			X						74251.04
5.	AOC 1-1-20		1035	X	X							74251.05
6.	AOC 1-1-25		1041			X						74251.06
7.	AOC 1-1-30		1045	X	X							74251.07
8.	AOC 1-1-35		1051			X						74251.08
9.	AOC 1-1-40		1055			X						74251.09
10.	AOC 1-1-45		1100	X	X							74251.10

TURN-AROUND TIME

Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	
P. Henderson		TETRA TECH, INC.	09/03/14	1635	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
D Haynes		AECOM	9-3-14	1635	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
D Haynes		AETC	9-3-14	1650	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Jean Laude		AETC	09/03/14	1650	

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74251

CHAIN OF CUSTODY RECORD

DATE 9-3-14 PAGE 2 OF 4

CLIENT: LMC
PROJECT NAME: BURBANK SOIL
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signature)

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC1-1-50	09/03/14	1105			X	U	S	SB	1	NR	74251.11
2.	AOC1-1-55		1117	X	X							74251-12
3.	AOC1-1-60		1134			X						74251-13
4.	AOC1-1-65		1141	X	X							74251-14
5.	AOC1-1-70		1146			X						74251.15
6.	AOC1-1-75		1155	X	X							74251.16
7.	AOC1-1-80		1205			X						74251.17
8.	AOC1-1-85		1253	X	X							74251.18
9.	AOC1-1-90		1301			X						74251.19
10.	AOC1-1-95	↓	1313	X	X							74251.20

Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
P. Henderson		TETRA TECH, INC.	09/03/14	1635	10
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
T Harris		AETL	9-3-14	1631	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
T Harris		AETL	9-3-14	1650	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Jean Claude		AETL	09/03/14	1650	

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74251

CHAIN OF CUSTODY RECORD

DATE 9-3-14 PAGE 3 OF 4

CLIENT: LMC
PROJECT NAME: BURBANK [illegible]
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures): [signature]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC1-1-100	9-3-14	1331			X	U	S	SB	1	NR	74251.21
2.	AOC1-1-105		1348	X	X							74251-22
3.	AOC1-1-110		1405			X						74251.23
4.	AOC1-1-115		1416	X	X							74251.24
5.	AOC1-1-120		1429			X						74251-25
6.	AOC1-1-125		1448			X						74251.26
7.	AOC1-1-130		1449	X	X							74251-27
8.	AOC1-1-135		1506			X						74251-28
9.	AOC1-1-140		1538	X	X							74251-29
10.	AOC1-1-145		1549	X	X							74251-30

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil, M - Sediment, W - Water

CONTAINER TYPE: G - Glass Bottle/Jar, SS - Stainless Steel Sleeve, SB - Brass Sleeve, P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL, NR (None required), NaOH, H_2SO_4

	SIGNATURE	COMPANY	DATE	TIME	
RELINQUISHED BY: P. Henderson	[signature]	TETRA TECH, INC.	09/03/14	1635	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: Thomas	[signature]	AETL	9-3-14	1635	METHOD OF SHIPMENT/SHIPMENT NO. COURIER
RELINQUISHED BY: Thomas	[signature]	AETL	9-3-14	1650	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Claude	[signature]	AETL	09/03/14	1650	

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CHAIN OF CUSTODY RECORD

74251

DATE 09/03/14 PAGE 4 OF 4

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: 100-SBO-T32955

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME
1.	~~AOC1-1-150~~	~~09/03/14~~	
2.	AOC1-1-130-DUP	09/03/14	1450
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

PARAMETERS

6020 - Cr	7199 - Cr^{6+}	Hold	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE
			~~U~~	~~S~~	~~G~~	~~1~~	~~NR~~
X	X		U	S	G	1	NR

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL

74251-31

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY: P. Henderson	SIGNATURE	TETRA TECH, INC.	DATE: 09/03/14	TIME: 1635	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 1
RECEIVED BY: T Harris	SIGNATURE	COMPANY: AOTL	DATE: 9-3-14	TIME: 1635	METHOD OF SHIPMENT/SHIPMENT NO.: Courier
RELINQUISHED BY: T Harris	SIGNATURE	COMPANY: AOTL	DATE: 9-3-14	TIME: 1650	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Lande	SIGNATURE	COMPANY: AOTL	DATE: 09/03/14	TIME: 1650	

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74251

CHAIN OF CUSTODY RECORD

DATE 9-3-14 PAGE 1 OF 4

CLIENT: LMC

PROJECT NAME: DURBANK MEANS

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBO-T32955

SAMPLERS (Signatures)

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL * Added by AETL CS2

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr 6+	HOLD	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	EB-090314-B	09/03/14	900	X	X			U	W	G/P	5	NP/HC	74251.01
2.	AOC1-1-5		1020			X			S	SB	1	NR	74251.02
3.	AOC 1-1-10		1025	X	X		*						74251.03
4.	AOC 1-1-15		1031			X							74251.04
5.	AOC 1-1-20		1035	X	X		*						74251.05
6.	AOC 1-1-25		1041			X							74251.06
7.	AOC 1-1-30		1045	X	X		*						74251.07
8.	AOC 1-1-35		1051			X							74251.08
9.	AOC 1-1-40		1055			X							74251.09
10.	AOC 1-1-45		1100	X	X		*						74251.10

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
P. Henderson		TETRA TECH, INC.	09/03/14	1635	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14
RECEIVED BY: T Hennas	SIGNATURE	COMPANY: AETL	DATE: 9-3-14	TIME: 1635	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: T Hennas	SIGNATURE	COMPANY: AETL	DATE: 9-3-14	TIME: 1650	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Claude	SIGNATURE	COMPANY: AETL	DATE: 09/03/14	TIME: 1650	

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74251

CHAIN OF CUSTODY RECORD

DATE 9-3-14 PAGE 2 OF 4

CLIENT: LMC
PROJECT NAME: BURBANK SOIL
PROJECT MANAGER: M. WEINBERGER
TC #: 100-530-T32955
SAMPLERS (Signature):

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	HOLD Moisture											FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
	PARAMETERS																					Please report all data to MDL
1.	AOC1-1-50	09/03/14	1105			X											U	S	SB	1	NR	74251.11
2.	AOC1-1-55		1117	X	X		*															74251-12
3.	AOC1-1-60		1134			X																74251-13
4.	AOC1-1-65		1141	X	X		*															74251-14
5.	AOC1-1-70		1146			X																74251-15
6.	AOC1-1-75		1155	X	X		*															74251-16
7.	AOC1-1-80		1205			X																74251-17
8.	AOC1-1-85		1253	X	X		*															74251-18
9.	AOC1-1-90		1301			X																74251-19
10.	AOC1-1-95	↓	1313	X	X		*															74251-20

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
P. Henderson		TETRA TECH, INC.	09/03/14	1635	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
T Heenan		AETL	9-3-14	1637	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
T Heenan		AETL	9-3-14	1650	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Jean Claude		AETL	09/03/14	1650	

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CHAIN OF COUSTODY RECORD

74251

DATE 9-3-14 PAGE 3 OF 4

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures): [signature]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	HOLD	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC1-1-100	9-3-14	1331			X		U	S	SB	1	NR	74251.21
2.	AOC1-1-105		1348	X	X		*						74251-22
3.	AOC1-1-110		1405			X							74251.23
4.	AOC1-1-115		1416	X	X		*						74251.24
5.	AOC1-1-120		1429			X							74251-25
6.	AOC1-1-125		1448			X							74251.26
7.	AOC1-1-130		1449	X	X		*						74251-27
8.	AOC1-1-135		1506			X							74251-28
9.	AOC1-1-140		1538	X	X		*						74251-29
10.	AOC1-1-145		1549	X	X		*						74251-30

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE	TETRA TECH, INC.	DATE	TIME
P. Henderson	[signature]		09/03/14	1635
RECEIVED BY: T Thomas	SIGNATURE: [signature]	COMPANY: AETL	9-3-14	1635
RELINQUISHED BY: Thomas	SIGNATURE: [signature]	COMPANY: AETL	9-3-14	1650
RECEIVED BY: Jean Claude	SIGNATURE: [signature]	COMPANY: AETL	09/03/14	1650

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
METHOD OF SHIPMENT/SHIPMENT NO. COURIER
Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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SHIP TO: _____

CHAIN OF CUSTODY RECORD

74251

DATE 09/03/14 PAGE 4 OF 4

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: 100-JBO-T32955

SAMPLERS (Signatures)

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr6	Hold	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE
1.	~~AOC1-1-150~~	~~09/03/14~~					~~U~~	~~S~~	~~G~~	~~1~~	~~NR~~
2.	AOC1-1-130-DUP	09/03/14	1450	X	X		U	S	G	1	NR
3.											
4.											
5.											
6.											
7.											
8.											
9.											
10.											

74251.31

Run 1

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
P. Henderson		TETRA TECH, INC.	09/03/14	1635	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 1
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
T Harris		AETL	9-3-14	1635	Courier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
T Harris		AETL	9-3-14	1650	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Jean Lande		AETL	09/03/14	1650	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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COOLER RECEIPT FORM

Client Name: Tetra Tech
Project Name: Burbank metals
AETL Job Number: 24251
Date Received: 09/03/14 Received by: Jean Claude
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.2°C, No 2: ____, No 3: ____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): brass sleeves
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, X HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	X		
2. Are the Sample labels legible?	X		
3. Do samples match the COC?	X		
4. Are the required analyses clear?	X		
5. Is there enough samples for required analysis?	X		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	X		
8. Are samples preserved?	X		
9. Are samples preserved properly for the intended analysis?	X		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	↓		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/03/2014
Date Reported 09/11/2014

Job Number	Order Date	Client
74251	09/03/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 31 samples with the following specification on 09/03/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74251.01	EB-090314-B	09/03/2014	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/10/2014	2	Normal	mg/L
7199 ^ MG/L	09/10/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74251.02	AOC1-1-5	09/03/2014	Soil	1
74251.04	AOC1-1-15	09/03/2014	Soil	1
74251.06	AOC1-1-25	09/03/2014	Soil	1
74251.08	AOC1-1-35	09/03/2014	Soil	1
74251.09	AOC1-1-40	09/03/2014	Soil	1
74251.11	AOC1-1-50	09/03/2014	Soil	1
74251.13	AOC1-1-60	09/03/2014	Soil	1
74251.15	AOC1-1-70	09/03/2014	Soil	1
74251.17	AOC1-1-80	09/03/2014	Soil	1
74251.19	AOC1-1-90	09/03/2014	Soil	1
74251.21	AOC1-1-100	09/03/2014	Soil	1
74251.23	AOC1-1-110	09/03/2014	Soil	1
74251.25	AOC1-1-120	09/03/2014	Soil	1
74251.26	AOC1-1-125	09/03/2014	Soil	1
74251.28	AOC1-1-135	09/03/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/10/2014	2	Normal	--

74251.03	AOC1-1-10	09/03/2014	Soil	1
74251.05	AOC1-1-20	09/03/2014	Soil	1
74251.07	AOC1-1-30	09/03/2014	Soil	1

Continued

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Project ID: 100-SBO-T32955
Date Received 09/03/2014
Date Reported 09/11/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74251	09/03/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74251.10	AOC1-1-45	09/03/2014	Soil	1
74251.12	AOC1-1-55	09/03/2014	Soil	1
74251.14	AOC1-1-65	09/03/2014	Soil	1
74251.16	AOC1-1-75	09/03/2014	Soil	1
74251.18	AOC1-1-85	09/03/2014	Soil	1
74251.20	AOC1-1-95	09/03/2014	Soil	1
74251.22	AOC1-1-105	09/03/2014	Soil	1
74251.24	AOC1-1-115	09/03/2014	Soil	1
74251.27	AOC1-1-130	09/03/2014	Soil	1
74251.29	AOC1-1-140	09/03/2014	Soil	1
74251.30	AOC1-1-145	09/03/2014	Soil	1
74251.31	AOC1-1-130-DUP	09/03/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ BOU-CR	09/10/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/10/2014	2	Normal	mg/Kg
ASTM-D2216	09/10/2014	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody.
Analytical non-conformances have been noted on the report.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0905141C4

Our Lab I.D.			Method Blank	**74251.01**			
Client Sample I.D.				EB-090314-B			
Date Sampled				09/03/2014			
Date Prepared			09/05/2014	09/05/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/08/2014	09/08/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090414-1

Our Lab I.D.			Method Blank	74251.01			
Client Sample I.D.				EB-090314-B			
Date Sampled				09/03/2014			
Date Prepared			09/04/2014	09/04/2014			
Preparation Method			7199	7199			
Date Analyzed			09/04/2014	09/04/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/05/2014				
Preparation Method			3050B				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3

Our Lab I.D.			74251.03	74251.05	74251.07	74251.10	74251.12
Client Sample I.D.			AOC1-1-10	AOC1-1-20	AOC1-1-30	AOC1-1-45	AOC1-1-55
Date Sampled			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Date Prepared			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	6.14	1.81	5.96	21.1	16.2

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3

Our Lab I.D.			74251.14	74251.16	74251.18	74251.20	74251.22
Client Sample I.D.			AOC1-1-65	AOC1-1-75	AOC1-1-85	AOC1-1-95	AOC1-1-105
Date Sampled			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Date Prepared			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	11.5	3.35	10.4	6.37	18.7

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3

Our Lab I.D.			74251.24	74251.27	74251.29	74251.30	74251.31
Client Sample I.D.			AOC1-1-115	AOC1-1-130	AOC1-1-140	AOC1-1-145	AOC1-1-130-DUP
Date Sampled			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Date Prepared			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	8.43	16.0	3.68	13.0	17.2

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090414-1

Our Lab I.D.			Method Blank	74251.03	74251.05	74251.07	74251.10
Client Sample I.D.				AOC1-1-10	AOC1-1-20	AOC1-1-30	AOC1-1-45
Date Sampled				09/03/2014	09/03/2014	09/03/2014	09/03/2014
Date Prepared			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090414-1

Our Lab I.D.			74251.12	74251.14	74251.16	74251.18	74251.20
Client Sample I.D.			AOC1-1-55	AOC1-1-65	AOC1-1-75	AOC1-1-85	AOC1-1-95
Date Sampled			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Date Prepared			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090414-1

Our Lab I.D.			74251.22	74251.24	74251.27	74251.29	74251.30
Client Sample I.D.			AOC1-1-105	AOC1-1-115	AOC1-1-130	AOC1-1-140	AOC1-1-145
Date Sampled			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Date Prepared			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090414-1

Our Lab I.D.			74251.31				
Client Sample I.D.			AOC1-1-130-DUP				
Date Sampled			09/03/2014				
Date Prepared			09/04/2014				
Preparation Method			3060A				
Date Analyzed			09/04/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (VI)	0.10	0.10	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090414-1

Our Lab I.D.			Method Blank	74251.03	74251.05	74251.07	74251.10
Client Sample I.D.				AOC1-1-10	AOC1-1-20	AOC1-1-30	AOC1-1-45
Date Sampled				09/03/2014	09/03/2014	09/03/2014	09/03/2014
Date Prepared			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	12.4	2.30	15.9	14.8

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090414-1

Our Lab I.D.			74251.12	74251.14	74251.16	74251.18	74251.20
Client Sample I.D.			AOC1-1-55	AOC1-1-65	AOC1-1-75	AOC1-1-85	AOC1-1-95
Date Sampled			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Date Prepared			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	11.6	16.6	5.80	5.43	16.9

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **14**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090414-1

Our Lab I.D.			74251.22	74251.24	74251.27	74251.29	74251.30
Client Sample I.D.			AOC1-1-105	AOC1-1-115	AOC1-1-130	AOC1-1-140	AOC1-1-145
Date Sampled			09/03/2014	09/03/2014	09/03/2014	09/03/2014	09/03/2014
Date Prepared			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	6.92	9.85	16.1	4.97	16.7

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090414-1

Our Lab I.D.			74251.31				
Client Sample I.D.			AOC1-1-130-DUP				
Date Sampled			09/03/2014				
Date Prepared			09/04/2014				
Preparation Method			ASTM-D2216				
Date Analyzed			09/05/2014				
Matrix			Soil				
Units			% wt				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Moisture Content	0.1	0.1	15.7				

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Page: **16**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0905141C4; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/08/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	95.0	0.0100	0.0100	86.4	9.48	75-125	<15

QC Batch No: 0905141C4; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/08/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	95.7	0.0100	0.0100	96.3	<1	75-125	<15	

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Page: **17**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090414-1; Dup or Spiked Sample: 74250.01; LCS: Clean Water; QC Prepared: 09/04/2014; QC Analyzed: 09/04/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.500	0.390M	78.0	0.500	0.365M	73.0	6.6	80-120	<20

QC Batch No: 090414-1; Dup or Spiked Sample: 74250.01; LCS: Clean Water; QC Prepared: 09/04/2014; QC Analyzed: 09/04/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.863	86.3	1.00	0.809	80.9	6.5	80-120	<20	

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Page: **18**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0905141C3; Dup or Spiked Sample: 74251.03; LCS: Clean Sand; QC Prepared: 09/05/2014; QC Analyzed: 09/10/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	5.38	10.0	15.1	97.2	10.0	15.3	99.2	2.04	75-125	<15

QC Batch No: 0905141C3; Dup or Spiked Sample: 74251.03; LCS: Clean Sand; QC Prepared: 09/05/2014; QC Analyzed: 09/10/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.970	97.2	1.00	1.00	99.6	2.44	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090414-1; Dup or Spiked Sample: 74251.03; LCS: Clean Sand; QC Prepared: 09/04/2014; QC Analyzed: 09/04/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.203	81.2	0.250	0.204	81.4	<1	80-120	<20

QC Batch No: 090414-1; Dup or Spiked Sample: 74251.03; LCS: Clean Sand; QC Prepared: 09/04/2014; QC Analyzed: 09/04/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.248	99.2	0.250	0.238	95.2	4.1	80-120	<20	

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Site

Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74251	09/03/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090414-1; Dup or Spiked Sample: 74251.03; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	12.4	12.2	1.6	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**27**
Date Received	**09/05/2014**
Date Reported	**09/16/2014**

Job Number	Order Date	Client
74264	09/05/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 9 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

CHAIN OF CUSTODY RECORD

74264

DATE 9-4-2014 PAGE 1 OF 2

CLIENT: CMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	H2O	8260B	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	EB-090414-A	9-4-14	2030	X	X		X	U	W	G/P	5	NR/HCl	74264-01
2.	AOC11-2-10		2126	X	X				S	SB	1	NR	74264.02
3.	AOC11-2-15		2130			X							74264.03
4.	AOC11-2-20		2135	X	X								74264-04
5.	AOC11-2-25		2140			X							74264-05
6.	AOC11-2-30		2144	X	X								74264.06
7.	AOC11-2-35		2150			X							74264-07
8.	AOC11-2-35-DUP		2151	X	X								74264-08
9.	AOC11-2-40		2155			X							74264-09
10.	AOC11-2-45		2200	X	X								74264-10

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY: D. MCBRISTER	SIGNATURE	TETRA TECH, INC.	DATE 9-05-14	TIME 0800	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14
RECEIVED BY: R SABATER	SIGNATURE	COMPANY: TETRA TECH	DATE 9/5/14	TIME 0900	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: R. SABATER	SIGNATURE	COMPANY: "	DATE 9/5/14	TIME 0820	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Lauck	SIGNATURE	COMPANY: AETL	DATE 09/5/14	TIME 0820	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

74264

DATE 9-4-2014 PAGE 2 OF 2

CLIENT: LMC

PROJECT NAME: BURBANK METALS

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBO-T32955

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr^{6+}	Hold	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC11-2-50	9-4-14	2205			X	U	S	SB	1	NR	74264.11
2.	AOC11-2-60		2215	X	X							74264.12
3.	AOC11-2-70		2225			X						74264.13
4.	AOC11-2-75		2240	X	X							74264.14
5.	AOC11-2-90		2330			X						74264.15
6.	AOC11-2-100		2335	X	X							74264.16
7.												
8.												
9.												
10.												

PARAMETERS

TURN-AROUND TIME

Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
D McALISTER		TETRA TECH, INC.	09/05/14	8:00 AM	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 6
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
R SABATER		TETRA TECH	09/05/14	8:00 AM	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
R SABATER		TETRA TECH	09/05/14	8:20 AM	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Jean Lande		AETL	9/5/14	0820	

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CHAIN OF CUSTODY RECORD

74264

DATE 9-4-2014 PAGE 1 OF 2

CLIENT: CMC

PROJECT NAME: BURBANK METALS

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBO-T32455

SAMPLERS (Signatures)

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL * Added in AETL 02

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	H2O	8260B	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	EB-090414-A	9-4-14	2030	X	X		X		U	W	G/P	5	NR/HNO3	74264-01
2.	AOC11-2-10		2126	X	X			*		S	SB	1	NR	74264-02
3.	AOC11-2-15		2130			X								74264-03
4.	AOC11-2-20		2135	X	X			*						74264-04
5.	AOC11-2-25		2140			X								74264-05
6.	AOC11-2-30		2144	X	X			*						74264-06
7.	AOC11-2-35		2150	*	*	~~*~~		*						74264-07
8.	AOC11-2-35-DUP		2151	X	X			*						74264-08
9.	AOC11-2-40		2155			X								74264-09
10.	AOC11-2-45		2200	X	X			*						74264-10

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
D. MCBRIDE		TETRA TECH, INC.	9-05-14	0800	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14
RECEIVED BY: R. SABATER	SIGNATURE	COMPANY: TETRA TECH	DATE 9/5/14	TIME 0800	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: R. SABATER	SIGNATURE	COMPANY: "	DATE 9/5/14	TIME 0820	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Leah Sandt	SIGNATURE	COMPANY: AETL	DATE 09/05/14	TIME 0820	

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SHIP TO: AETL

CHAIN OF CUSTODY RECORD

74264

DATE 9-4-2014 PAGE 2 OF 2

CLIENT: LMC

PROJECT NAME: BURBANK MOTORS

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBO-T32455

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7196 - Cr6+	1600	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC11-2-50	9-4-14	2205			X		U	S	SB	1	NR	74264.11
2.	AOC11-2-60		2215	X	X		*						74264.12
3.	AOC11-2-70		2225			X							74264.13
4.	AOC11-2-75		2240	X	X		*						74264.14
5.	AOC11-2-90		2330			X							74264.15
6.	AOC11-2-100		2335	X	X		*						74264.16
7.													
8.													
9.													
10.													

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
D MCALISTER		TETRA TECH, INC.	09/05/14	8:00 AM	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 6
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
R SABATER		TETRA TECH	09/05/14	8:00 AM	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
R SABATER		TETRA TECH	09/05/14	8:20 AM	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
		AETL	9-5-14	0820	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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COOLER RECEIPT FORM

Client Name: Tetra Tech
Project Name: Burbank metals
AETL Job Number: 74264
Date Received: 09/05/14 Received by: Juan Claude
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.1 °C, No 2: 3.3 °C, No 3:
Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars ☒ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): brass sleeves
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, ☒ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	✓		
11. Are the jars free of headspace?	NA		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/05/2014
Date Reported 09/16/2014

Job Number	Order Date	Client
74264	09/05/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 16 samples with the following specification on 09/05/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74264.01	EB-090414-A	09/04/2014	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/12/2014	2	Normal	mg/L
7199 ^ MG/L	09/12/2014	2	Normal	mg/L
8260B ^ BOU	09/12/2014	2	Normal	ug/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74264.02	AOC11-2-10	09/04/2014	Soil	1
74264.04	AOC11-2-20	09/04/2014	Soil	1
74264.06	AOC11-2-30	09/04/2014	Soil	1
74264.07	AOC11-2-35	09/04/2014	Soil	1
74264.08	AOC11-2-35-DUP	09/04/2014	Soil	1
74264.10	AOC11-2-45	09/04/2014	Soil	1
74264.12	AOC11-2-60	09/04/2014	Soil	1
74264.14	AOC11-2-75	09/04/2014	Soil	1
74264.16	AOC11-2-100	09/04/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/12/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/12/2014	2	Normal	mg/Kg
ASTM-D2216	09/12/2014	2	Normal	% wt

74264.03	AOC11-2-15	09/04/2014	Soil	1
74264.05	AOC11-2-25	09/04/2014	Soil	1
74264.09	AOC11-2-40	09/04/2014	Soil	1
74264.11	AOC11-2-50	09/04/2014	Soil	1
74264.13	AOC11-2-70	09/04/2014	Soil	1
74264.15	AOC11-2-90	09/04/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units

Continued

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Project ID: 100-SBO-T32955
Date Received 09/05/2014
Date Reported 09/16/2014

Job Number	Order Date	Client
74264	09/05/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74264.15	AOC11-2-90	09/04/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/12/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
Analytical non-conformances have been noted on the report.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Site

Burbank Metals

Page: **2**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1

Our Lab I.D.			Method Blank	74264.01			
Client Sample I.D.				EB-090414-A			
Date Sampled				09/04/2014			
Date Prepared			09/06/2014	09/06/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/06/2014	09/06/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	10.0	10.0	ND	ND			
Benzene	0.20	0.50	ND	ND			
Bromobenzene (Phenyl bromide)	0.50	1.00	ND	ND			
Bromochloromethane	0.50	1.00	ND	ND			
Bromodichloromethane	0.50	1.00	ND	ND			
Bromoform (Tribromomethane)	0.50	1.00	ND	ND			
Bromomethane (Methyl bromide)	1.50	3.00	ND	ND			
2-Butanone (MEK)	2.50	5.00	ND	ND			
n-Butylbenzene	0.50	1.00	ND	ND			
sec-Butylbenzene	0.50	1.00	ND	ND			
tert-Butylbenzene	0.50	1.00	ND	ND			
Carbon Disulfide	0.50	5.00	ND	ND			
Carbon tetrachloride	0.20	0.50	ND	ND			
Chlorobenzene	0.50	1.00	ND	ND			
Chloroethane	0.50	1.00	ND	ND			
2-Chloroethyl vinyl ether	2.50	5.00	ND	ND			
Chloroform (Trichloromethane)	0.50	1.00	ND	ND			
Chloromethane (Methyl chloride)	1.50	3.00	ND	ND			
2-Chlorotoluene	0.50	1.00	ND	ND			
4-Chlorotoluene	0.50	1.00	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	2.50	5.00	ND	ND			
Dibromochloromethane	0.50	1.00	ND	ND			
1,2-Dibromoethane (EDB)	0.50	1.00	ND	ND			
Dibromomethane	0.50	1.00	ND	ND			
1,2-Dichlorobenzene	0.50	1.00	ND	ND			
1,3-Dichlorobenzene	0.50	1.00	ND	ND			
1,4-Dichlorobenzene	0.50	1.00	ND	ND			

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ANALYTICAL RESULTS

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1

Our Lab I.D.			Method Blank	**74264.01**			
Client Sample I.D.				EB-090414-A			
Date Sampled				09/04/2014			
Date Prepared			09/06/2014	09/06/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/06/2014	09/06/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Dichlorodifluoromethane	0.50	1.00	ND	ND			
1,1-Dichloroethane	0.50	1.00	ND	ND			
1,2-Dichloroethane (EDC)	0.50	1.00	ND	ND			
1,1-Dichloroethene	0.50	1.00	ND	ND			
cis-1,2-Dichloroethene	0.50	1.00	ND	ND			
trans-1,2-Dichloroethene	0.50	1.00	ND	ND			
1,2-Dichloropropane	0.50	1.00	ND	ND			
1,3-Dichloropropane	0.50	1.00	ND	ND			
2,2-Dichloropropane	0.50	1.00	ND	ND			
1,1-Dichloropropene	0.50	1.00	ND	ND			
cis-1,3-Dichloropropene	0.20	0.50	ND	ND			
trans-1,3-Dichloropropene	0.20	0.50	ND	ND			
Ethylbenzene	0.50	1.00	ND	ND			
Hexachlorobutadiene	1.50	3.00	ND	ND			
2-Hexanone	2.50	5.00	ND	ND			
Iodomethane	0.50	1.00	ND	ND			
Isopropylbenzene	0.50	1.00	ND	ND			
p-Isopropyltoluene	0.50	1.00	ND	ND			
4-Methyl-2-pentanone (MIBK)	2.50	5.00	ND	ND			
Methyl-tert-butyl ether (MTBE)	0.50	1.00	ND	ND			
Methylene chloride (DCM)	2.00	4.00	ND	ND			
Naphthalene	0.50	1.00	ND	ND			
n-Propylbenzene	0.50	1.00	ND	ND			
Styrene	0.50	1.00	ND	ND			
1,1,1,2-Tetrachloroethane	0.50	1.00	ND	ND			
1,1,2,2-Tetrachloroethane	0.50	1.00	ND	ND			
Tetrachloroethene	0.50	1.00	ND	ND			
Toluene (Methyl benzene)	0.50	1.00	ND	ND			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	1.00	ND	ND			
1,2,3-Trichlorobenzene	0.50	1.00	ND	ND			
1,2,4-Trichlorobenzene	0.50	1.00	ND	ND			
1,1,1-Trichloroethane	0.50	1.00	ND	ND			
1,1,2-Trichloroethane	0.50	1.00	ND	ND			
Trichloroethene	0.50	1.00	ND	ND			

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ANALYTICAL RESULTS

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1

Our Lab I.D.			Method Blank	**74264.01**			
Client Sample I.D.				EB-090414-A			
Date Sampled				09/04/2014			
Date Prepared			09/06/2014	09/06/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/06/2014	09/06/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Trichlorofluoromethane	0.50	1.00	ND	ND			
1,2,3-Trichloropropane	0.50	1.00	ND	ND			
1,2,4-Trimethylbenzene	0.50	1.00	ND	ND			
1,3,5-Trimethylbenzene	0.50	1.00	ND	ND			
Vinyl Acetate	0.50	5.00	ND	ND			
Vinyl chloride (Chloroethene)	0.20	0.50	ND	ND			
o-Xylene	0.50	1.00	ND	ND			
m,p-Xylenes	0.50	1.00	ND	ND			
Our Lab I.D.			Method Blank	**74264.01**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		106	105			
Dibromofluoromethane	75-125		96.8	96.3			
Toluene-d8	75-125		103	103			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0905141C4

Our Lab I.D.			Method Blank	**74264.01**			
Client Sample I.D.				EB-090414-A			
Date Sampled				09/04/2014			
Date Prepared			09/05/2014	09/05/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/08/2014	09/08/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090514-1

Our Lab I.D.			Method Blank	74264.01			
Client Sample I.D.				EB-090414-A			
Date Sampled				09/04/2014			
Date Prepared			09/05/2014	09/05/2014			
Preparation Method			7199	7199			
Date Analyzed			09/05/2014	09/05/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0908141C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/08/2014				
Preparation Method			3050B				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0908141C2

Our Lab I.D.			74264.02	74264.04	74264.06		
Client Sample I.D.			AOC11-2-10	AOC11-2-20	AOC11-2-30		
Date Sampled			09/04/2014	09/04/2014	09/04/2014		
Date Prepared			09/08/2014	09/08/2014	09/08/2014		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			09/10/2014	09/10/2014	09/10/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium	0.350	1.000	7.17	7.28	5.93		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/11/2014				
Preparation Method			3050B				
Date Analyzed			09/12/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C1

Our Lab I.D.			74264.07				
Client Sample I.D.			AOC11-2-35				
Date Sampled			09/04/2014				
Date Prepared			09/11/2014				
Preparation Method			3050B				
Date Analyzed			09/12/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	9.04				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0908141C2

Our Lab I.D.			74264.08	74264.10	74264.12	74264.14	74264.16
Client Sample I.D.			AOC11-2-35-DUP	AOC11-2-45	AOC11-2-60	AOC11-2-75	AOC11-2-100
Date Sampled			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/08/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	8.15	11.7	8.31	5.27	8.78

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090614-1

Our Lab I.D.			Method Blank	74264.02	74264.04	74264.06	
Client Sample I.D.				AOC11-2-10	AOC11-2-20	AOC11-2-30	
Date Sampled				09/04/2014	09/04/2014	09/04/2014	
Date Prepared			09/06/2014	09/06/2014	09/06/2014	09/06/2014	
Preparation Method			3060A	3060A	3060A	3060A	
Date Analyzed			09/06/2014	09/06/2014	09/06/2014	09/06/2014	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Chromium (VI)	0.10	0.10	ND	ND	ND	0.646	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			Method Blank	**74264.07**			
Client Sample I.D.				AOC11-2-35			
Date Sampled				09/04/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			3060A	3060A			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.10	0.10	ND	0.871			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090614-1

Our Lab I.D.			74264.08	74264.10	74264.12	74264.14	74264.16
Client Sample I.D.			AOC11-2-35-DUP	AOC11-2-45	AOC11-2-60	AOC11-2-75	AOC11-2-100
Date Sampled			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	0.697	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090514-1

Our Lab I.D.			Method Blank	74264.02	74264.04	74264.06	
Client Sample I.D.				AOC11-2-10	AOC11-2-20	AOC11-2-30	
Date Sampled				09/04/2014	09/04/2014	09/04/2014	
Date Prepared			09/05/2014	09/05/2014	09/05/2014	09/05/2014	
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	
Date Analyzed			09/06/2014	09/06/2014	09/06/2014	09/06/2014	
Matrix			Soil	Soil	Soil	Soil	
Units			% wt	% wt	% wt	% wt	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Moisture Content	0.1	0.1	ND	2.50	1.90	6.10	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091214-1

Our Lab I.D.			Method Blank	74264.07			
Client Sample I.D.				AOC11-2-35			
Date Sampled				09/04/2014			
Date Prepared			09/12/2014	09/12/2014			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	ND	5.20			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090514-1

Our Lab I.D.			74264.08	74264.10	74264.12	74264.14	74264.16
Client Sample I.D.			AOC11-2-35-DUP	AOC11-2-45	AOC11-2-60	AOC11-2-75	AOC11-2-100
Date Sampled			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	4.40	10.0	12.0	4.50	4.51

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0905141C4; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/08/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	95.0	0.0100	0.0100	86.4	9.48	75-125	<15

QC Batch No: 0905141C4; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/08/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	95.7	0.0100	0.0100	96.3	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090514-1; Dup or Spiked Sample: 74264.01; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/05/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.289M	28.9	1.00	0.217M	21.7	28.5	80-120	<20

QC Batch No: 090514-1; Dup or Spiked Sample: 74264.01; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/05/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	1.13	113	1.00	1.13	113	<1	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1; Dup or Spiked Sample: B0906141A1; LCS: Clean Water; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	48.5	97.0	50.0	48.5	97.0	<1	75-125	<20
Chlorobenzene	0.00	50.0	46.3	92.6	50.0	45.4	90.8	1.96	75-125	<20
1,1-Dichloroethene	0.00	50.0	54.5	109	50.0	54.5	109	<1	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	48.6	97.2	50.0	50.5	101	3.83	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	46.9	93.8	50.0	46.0	92.0	1.94	75-125	<20
Trichloroethene	0.00	50.0	54.0	108	50.0	54.0	108	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	45.3	90.5	50.0	45.1	90.2	<1	75-125	<20
Dibromofluoromethane	0.00	50.0	48.7	97.3	50.0	49.9	99.7	2.47	75-125	<20
Toluene-d8	0.00	50.0	51.0	102	50.0	50.5	101	<1	75-125	<20

QC Batch No: 0906141A1; Dup or Spiked Sample: B0906141A1; LCS: Clean Water; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	51.1	102	50.0	50.1	100	1.98	75-125	<20	
Chlorobenzene	50.0	50.9	102	50.0	48.3	97.0	5.03	75-125	<20	
1,1-Dichloroethene	50.0	57.6	115	50.0	56.4	113	1.75	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	47.0	94.0	50.0	47.6	95.0	1.06	75-125	<20	
Toluene (Methyl benzene)	50.0	51.3	103	50.0	48.9	98.0	4.98	75-125	<20	
Trichloroethene	50.0	56.6	113	50.0	54.9	110	2.69	75-125	<20	
LCS										
Chloroform (Trichloromethane)	50.0	50.4	101	50.0	51.0	102	<1	75-125	<20	
Ethylbenzene	50.0	51.8	104	50.0	48.3	97.0	6.97	75-125	<20	
1,1,1-Trichloroethane	50.0	54.4	109	50.0	52.5	105	3.74	75-125	<20	
o-Xylene	50.0	50.6	101	50.0	48.1	96.0	5.08	75-125	<20	
m,p-Xylenes	100	104	104	100	96.5	96.5	7.48	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	45.2	90.3	50.0	45.5	91.0	<1	75-125	<20	
Dibromofluoromethane	50.0	49.1	98.3	50.0	48.9	97.8	<1	75-125	<20	

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1; Dup or Spiked Sample: B0906141A1; LCS: Clean Water; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Toluene-d8	50.0	50.9	102	50.0	50.7	101	<1	75-125	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0908141C2; Dup or Spiked Sample: 74264.02; LCS: Clean Sand; QC Prepared: 09/08/2014; QC Analyzed: 09/10/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	6.99	10.0	17.1	101	10.0	16.8	98.1	2.91	75-125	<15

QC Batch No: 0908141C2; Dup or Spiked Sample: 74264.02; LCS: Clean Sand; QC Prepared: 09/08/2014; QC Analyzed: 09/10/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	1.10	110	1.00	1.14	114	3.57	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C1; Dup or Spiked Sample: 74311.02; LCS: Clean Sand; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	8.35	10.0	19.0	107	10.0	18.4	101	5.77	75-125	<15

QC Batch No: 0911141C1; Dup or Spiked Sample: 74311.02; LCS: Clean Sand; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.970	96.8	1.00	0.970	96.5	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090614-1; Dup or Spiked Sample: 74264.02; LCS: Clean Sand; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.298	119	0.250	0.280	112	6.1	80-120	<20

QC Batch No: 090614-1; Dup or Spiked Sample: 74264.02; LCS: Clean Sand; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.260	104	0.250	0.270	108	3.8	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1; Dup or Spiked Sample: 74349.02; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.273	109	0.250	0.293	117	7.1	80-120	<20

QC Batch No: 091514-1; Dup or Spiked Sample: 74349.02; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.239	95.6	0.250	0.248	99.2	3.7	80-120	<20	

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090514-1; Dup or Spiked Sample: 74264.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	2.50	2.40	4.1	<20						

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

QUALITY CONTROL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

Page: **27**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74264	09/05/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091214-1; Dup or Spiked Sample: 74264.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	2.50	2.40	4.1	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**26**
Date Received	**09/05/2014**
Date Reported	**09/12/2014**

Job Number	Order Date	Client
74265	09/05/2014	T/TSB2

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 16 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO:

74265

CHAIN OF CUSTODY RECORD

DATE 09/04/14 PAGE 1 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soils Investigation
PROJECT MANAGER: T. Villeneuve/M. Weinberger
TC #: 100-SBO-T32955.TM ~~BLO3~~
SAMPLERS (Signatures): [signature]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom SW6020	Hex Chrom SW7199	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC2-1-15	09/04/14	2048	X	X		U	S	SB	1	NR	74265.01
2.	AOC2-1-20		2051			X				1		74265.02
3.	AOC2-1-25		2056	X	X					1		74265.03
4.	AOC2-1-30		2058	X	X					1		74265.04
5.	AOC2-1-35		2103			X				1		74265.05
6.	AOC2-1-40		2107			X				1		74265.06
7.	AOC2-1-45		2110	X	X					1		74265.07
8.	AOC2-1-50		2116			X				1		74265.08
9.	AOC2-1-55		2121	X	X					1		74265.09
10.	AOC2-1-60		2135	X	X					1		74265.10

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME
R. Sabater	[signature]	TETRA TECH, INC.	09/5/14	0820
RECEIVED BY: Jean Claude	SIGNATURE: [signature]	COMPANY: AETL	09/05/14	0820
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
METHOD OF SHIPMENT/SHIPMENT NO.: Courier
Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

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FAX: (909) 889-1391

SHIP TO: _____

74265

DATE 09/04/14 PAGE 2 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: 1600-SBO-T32955.TM

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Cr+3 SW6020	Hex Chrom+ SW7199	Ho LD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC2-1-70	09/04/14	2156			X	U	S	SB	1	NR	74265.11
2.	AOC2-1-75		2216	X	X					1		74265.12
3.	AOC2-1-80		2224	X	X					1		74265.13
4.	AOC2-1-85		2232			X				1		74265.14
5.	AOC2-1-90		2238	X	X					1		74265.15
6.	AOC2-1-95		2244			X				1		74265.16
7.	AOC2-1-100		2248	X	X					1		74265.17
8.	AOC2-1-105		2257			X				1		74265.18
9.	AOC2-1-110		2305	X	X					1		74265.19
10.	AOC2-1-115	↓	2327			X	↓	↓	↓	1	↓	74265.20

PARAMETERS

TURN-AROUND TIME

Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
R. SABATER		TETRA TECH, INC.	09/5/14	0820	10
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Leah Vander		AETC	09/05/14	0820	Courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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FAX: (909) 889-1391

SHIP TO: _____

74265

DATE 09/04/14 PAGE 3 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: 100-580-T32955.TM

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Cr SW6020	Hex Chrom SW7199	Hold	8260B	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC2-1-120	09/04/14	2332	X	X			U	S	SB	1	NR	74265.21
2.	AOC2-1-125		2338			X					1		74265.22
3.	AOC2-1-130		2342			X					1		74265.23
4.	AOC2-1-135		2351	X	X						1		74265.24
5.	AOC2-1-140		2355	X	X						1		74265.25
6.	AOC2-1-145		2358			X					1		74265.26
7.	AOC2-1-150		2359	X	X						1		74265.27
8.	AOC2-1-55-DUP		2122	X	X						1		74265.28
9.	EB-090414-B		1900	X	X		X		W	G/P	5	NR/SB	74265.29
10.													

PARAMETERS

FILTERING: ☐ FILTERED ☑ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
R. SABATER		TETRA TECH, INC.	9/5/14	0820	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 13
RECEIVED BY: Jean Lander	SIGNATURE	COMPANY: AETL	DATE: 09/05/14	TIME: 0820	METHOD OF SHIPMENT/SHIPMENT NO.: Courier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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74265

CHAIN OF CUSTODY RECORD

DATE 09/04/14 PAGE 1 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: 100-SBO-T32955.TM ~~B1.01~~

SAMPLERS (Signatures): [signature]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL
* Added in AETL

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom SW6020	Hex Chrom SW7199	HOLD	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC2-1-15	09/04/14	2048	X	X		*	U	S	SB	1	NR	74265.01
2.	AOC2-1-20	↓	2051			X		↓	↓	↓	1	↓	74265.02
3.	AOC2-1-25	↓	2056	X	X		*	↓	↓	↓	1	↓	74265.03
4.	AOC2-1-30	↓	2058	X	X		*	↓	↓	↓	1	↓	74265.04
5.	AOC2-1-35	↓	2103			X		↓	↓	↓	1	↓	74265.05
6.	AOC2-1-40	↓	2107			X		↓	↓	↓	1	↓	74265.06
7.	AOC2-1-45	↓	2110	X	X		*	↓	↓	↓	1	↓	74265.07
8.	AOC2-1-50	↓	2116			X		↓	↓	↓	1	↓	74265.08
9.	AOC2-1-55	↓	2121	X	X		*	↓	↓	↓	1	↓	74265.09
10.	AOC2-1-60	↓	2135	X	X		*	↓	↓	↓	1	↓	74265.10

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NR (None required); NaOH; H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	
R. SABATER	[signature]	TETRA TECH, INC.	09/5/14	0820	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: Jean Claude	[signature]	AETL	09/05/14	0820	METHOD OF SHIPMENT/SHIPMENT NO.: Courrier
RELINQUISHED BY					Special Shipping/Handling/Storage Requirements:
RECEIVED BY					

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

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Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74265

DATE 09/04/14 PAGE 2 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/M. Weinberg-ers

TC #: Lac-SBO-T32955.TM

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom SW6020	Hex Chrom SW7199	Ho LD Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC2-1-70	09/04/14	2156			X	U	S	SB	1	NR	74265.11
2.	AOC2-1-75		2216	X	X	*				1		74265.12
3.	AOC2-1-80		2224	X	X	*				1		74265.13
4.	AOC2-1-85		2232			X				1		74265.14
5.	AOC2-1-90		2238	X	X	*				1		74265.15
6.	AOC2-1-95		2244			X				1		74265.16
7.	AOC2-1-100		2248	X	X	*				1		74265.17
8.	AOC2-1-105		2257			X				1		74265.18
9.	AOC2-1-110		2305	X	X	*				1		74265.19
10.	AOC2-1-115	↓	2327			X	↓	↓	↓	1	↓	74265.20

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
R. SABATER		TETRA TECH, INC.	09/5/14	0820	10
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Jean Lander		AETC	09/05/14	0820	Courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

74265

DATE 09/04/14 PAGE 3 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: 100-580-T32955.TM

SAMPLERS (Signature): _____

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Cr SW6020	Hex Chrom SW7199	Hold	8260B	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC2-1-120	09/04/14	2332	X	X			*	U	S	SB	1	NR	74265.21
2.	AOC2-1-125		2338			X						1		74265.22
3.	AOC2-1-130		2342			X						1		74265.23
4.	AOC2-1-135		2357	X	X			*				1		74265.24
5.	AOC2-1-140		2355	X	X			*				1		74265.25
6.	AOC2-1-145		2358			X						1		74265.26
7.	AOC2-1-150		2359	X	X			*				1		74265.27
8.	AOC2-1-55-DUP		2122	X	X			*				1		74265.28
9.	EB-090414-B		1900	X	X		X	*	U	W	G/P	5	see below	74265.29
10.														

PARAMETERS

FILTERING:
☐ FILTERED ☑ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SB - Brass Sleeve
SS - Stainless Steel Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
R. SABATER		TETRA TECH, INC.	9/5/14	0820	13
RECEIVED BY: Jean Claude	SIGNATURE	COMPANY: AETL	DATE: 09/05/14	TIME: 0820	METHOD OF SHIPMENT/SHIPMENT NO.: Courier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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COOLER RECEIPT FORM

Client Name: Tetra Tech
Project Name: Burbank metals
AETL Job Number: 74264 & 74265
Date Received: 09/05/14 Received by: Luan Lande
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.1 °C, No 2: 3.3 °C, No 3:
Type of sample containers: ☒ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☒ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): brass sleeves
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, ☒ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	✓		
11. Are the jars free of headspace?	NA		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955.TM
Date Received 09/05/2014
Date Reported 09/12/2014

Job Number	Order Date	Client
74265	09/05/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 29 samples with the following specification on 09/05/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74265.29	EB-090414-B	09/04/2014	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/12/2014	2	Normal	mg/L
7199 ^ MG/L	09/12/2014	2	Normal	mg/L
8260B ^ BOU	09/12/2014	2	Normal	ug/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74265.01	AOC-2-1-15	09/04/2014	Soil	1
74265.03	AOC-2-1-25	09/04/2014	Soil	1
74265.04	AOC-2-1-30	09/04/2014	Soil	1
74265.07	AOC-2-1-45	09/04/2014	Soil	1
74265.09	AOC-2-1-55	09/04/2014	Soil	1
74265.10	AOC-2-1-60	09/04/2014	Soil	1
74265.12	AOC-2-1-75	09/04/2014	Soil	1
74265.13	AOC-2-1-80	09/04/2014	Soil	1
74265.15	AOC-2-1-90	09/04/2014	Soil	1
74265.17	AOC-2-1-100	09/04/2014	Soil	1
74265.19	AOC-2-1-110	09/04/2014	Soil	1
74265.21	AOC-2-1-120	09/04/2014	Soil	1
74265.24	AOC-2-1-135	09/04/2014	Soil	1
74265.25	AOC-2-1-140	09/04/2014	Soil	1
74265.27	AOC-2-1-150	09/04/2014	Soil	1
74265.28	AOC-2-1-55-DUP	09/04/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/12/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/12/2014	2	Normal	mg/Kg
ASTM-D2216	09/12/2014	2	Normal	% wt

Continued

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955.TM
Date Received 09/05/2014
Date Reported 09/12/2014

Job Number	Order Date	Client
74265	09/05/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74265.02	AOC-2-1-20	09/04/2014	Soil	1
74265.05	AOC-2-1-35	09/04/2014	Soil	1
74265.06	AOC-2-1-40	09/04/2014	Soil	1
74265.08	AOC-2-1-50	09/04/2014	Soil	1
74265.11	AOC-2-1-70	09/04/2014	Soil	1
74265.14	AOC-2-1-85	09/04/2014	Soil	1
74265.16	AOC-2-1-95	09/04/2014	Soil	1
74265.18	AOC-2-1-105	09/04/2014	Soil	1
74265.20	AOC-2-1-115	09/04/2014	Soil	1
74265.22	AOC-2-1-125	09/04/2014	Soil	1
74265.23	AOC-2-1-130	09/04/2014	Soil	1
74265.26	AOC-2-1-145	09/04/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/12/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
Analytical non-conformances have been noted on the report.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Burbank Metals

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Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0908141C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/08/2014				
Preparation Method			3050B				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0908141C3

Our Lab I.D.			74265.01	74265.03	74265.04	74265.07	74265.09
Client Sample I.D.			AOC-2-1-15	AOC-2-1-25	AOC-2-1-30	AOC-2-1-45	AOC-2-1-55
Date Sampled			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/08/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	7.78	11.4	5.37	19.6	18.8

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0908141C3

Our Lab I.D.			74265.10	74265.12	74265.13	74265.15	74265.17
Client Sample I.D.			AOC-2-1-60	AOC-2-1-75	AOC-2-1-80	AOC-2-1-90	AOC-2-1-100
Date Sampled			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/08/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	4.85	4.06	6.44	8.59	4.05

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0908141C3

Our Lab I.D.			74265.19	74265.21	74265.24	74265.25	74265.27
Client Sample I.D.			AOC-2-1-110	AOC-2-1-120	AOC-2-1-135	AOC-2-1-140	AOC-2-1-150
Date Sampled			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/08/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	2.96	11.7	7.10	11.2	6.85

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Burbank Metals

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Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0908141C3

Our Lab I.D.			74265.28				
Client Sample I.D.			AOC-2-1-55-DUP				
Date Sampled			09/04/2014				
Date Prepared			09/08/2014				
Preparation Method			3050B				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	13.3				

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090614-1

Our Lab I.D.			Method Blank	74265.01	74265.03	74265.04	74265.07
Client Sample I.D.				AOC-2-1-15	AOC-2-1-25	AOC-2-1-30	AOC-2-1-45
Date Sampled				09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	1.02

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090614-1

Our Lab I.D.			74265.09	74265.10	74265.12	74265.13	74265.15
Client Sample I.D.			AOC-2-1-55	AOC-2-1-60	AOC-2-1-75	AOC-2-1-80	AOC-2-1-90
Date Sampled			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090614-1

Our Lab I.D.			74265.17	74265.19	74265.21	74265.24	74265.25
Client Sample I.D.			AOC-2-1-100	AOC-2-1-110	AOC-2-1-120	AOC-2-1-135	AOC-2-1-140
Date Sampled			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090614-1

Our Lab I.D.			74265.27	74265.28			
Client Sample I.D.			AOC-2-1-150	AOC-2-1-55-DUP			
Date Sampled			09/04/2014	09/04/2014			
Date Prepared			09/06/2014	09/06/2014			
Preparation Method			3060A	3060A			
Date Analyzed			09/06/2014	09/06/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.10	0.10	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090514-1

Our Lab I.D.			Method Blank	74265.01	74265.03	74265.04	74265.07
Client Sample I.D.				AOC-2-1-15	AOC-2-1-25	AOC-2-1-30	AOC-2-1-45
Date Sampled				09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	4.90	8.00	4.70	10.0

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090514-1

Our Lab I.D.			74265.09	74265.10	74265.12	74265.13	74265.15
Client Sample I.D.			AOC-2-1-55	AOC-2-1-60	AOC-2-1-75	AOC-2-1-80	AOC-2-1-90
Date Sampled			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	13.5	3.30	3.60	2.68	5.61

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090514-1

Our Lab I.D.			74265.17	74265.19	74265.21	74265.24	74265.25
Client Sample I.D.			AOC-2-1-100	AOC-2-1-110	AOC-2-1-120	AOC-2-1-135	AOC-2-1-140
Date Sampled			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	5.82	2.92	17.7	3.33	9.62

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090514-1

Our Lab I.D.			74265.27	74265.28			
Client Sample I.D.			AOC-2-1-150	AOC-2-1-55-DUP			
Date Sampled			09/04/2014	09/04/2014			
Date Prepared			09/05/2014	09/05/2014			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			09/06/2014	09/06/2014			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	3.28	10.3			

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Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1

Our Lab I.D.			Method Blank	74265.29			
Client Sample I.D.				EB-090414-B			
Date Sampled				09/04/2014			
Date Prepared			09/06/2014	09/06/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/06/2014	09/06/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	10.0	10.0	ND	ND			
Benzene	0.20	0.50	ND	ND			
Bromobenzene (Phenyl bromide)	0.50	1.00	ND	ND			
Bromochloromethane	0.50	1.00	ND	ND			
Bromodichloromethane	0.50	1.00	ND	ND			
Bromoform (Tribromomethane)	0.50	1.00	ND	ND			
Bromomethane (Methyl bromide)	1.50	3.00	ND	ND			
2-Butanone (MEK)	2.50	5.00	ND	ND			
n-Butylbenzene	0.50	1.00	ND	ND			
sec-Butylbenzene	0.50	1.00	ND	ND			
tert-Butylbenzene	0.50	1.00	ND	ND			
Carbon Disulfide	0.50	5.00	ND	ND			
Carbon tetrachloride	0.20	0.50	ND	ND			
Chlorobenzene	0.50	1.00	ND	ND			
Chloroethane	0.50	1.00	ND	ND			
2-Chloroethyl vinyl ether	2.50	5.00	ND	ND			
Chloroform (Trichloromethane)	0.50	1.00	ND	ND			
Chloromethane (Methyl chloride)	1.50	3.00	ND	ND			
2-Chlorotoluene	0.50	1.00	ND	ND			
4-Chlorotoluene	0.50	1.00	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	2.50	5.00	ND	ND			
Dibromochloromethane	0.50	1.00	ND	ND			
1,2-Dibromoethane (EDB)	0.50	1.00	ND	ND			
Dibromomethane	0.50	1.00	ND	ND			
1,2-Dichlorobenzene	0.50	1.00	ND	ND			
1,3-Dichlorobenzene	0.50	1.00	ND	ND			
1,4-Dichlorobenzene	0.50	1.00	ND	ND			

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ANALYTICAL RESULTS

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1

Our Lab I.D.			Method Blank	**74265.29**			
Client Sample I.D.				EB-090414-B			
Date Sampled				09/04/2014			
Date Prepared			09/06/2014	09/06/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/06/2014	09/06/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Dichlorodifluoromethane	0.50	1.00	ND	ND			
1,1-Dichloroethane	0.50	1.00	ND	ND			
1,2-Dichloroethane (EDC)	0.50	1.00	ND	ND			
1,1-Dichloroethene	0.50	1.00	ND	ND			
cis-1,2-Dichloroethene	0.50	1.00	ND	ND			
trans-1,2-Dichloroethene	0.50	1.00	ND	ND			
1,2-Dichloropropane	0.50	1.00	ND	ND			
1,3-Dichloropropane	0.50	1.00	ND	ND			
2,2-Dichloropropane	0.50	1.00	ND	ND			
1,1-Dichloropropene	0.50	1.00	ND	ND			
cis-1,3-Dichloropropene	0.20	0.50	ND	ND			
trans-1,3-Dichloropropene	0.20	0.50	ND	ND			
Ethylbenzene	0.50	1.00	ND	ND			
Hexachlorobutadiene	1.50	3.00	ND	ND			
2-Hexanone	2.50	5.00	ND	ND			
Iodomethane	0.50	1.00	ND	ND			
Isopropylbenzene	0.50	1.00	ND	ND			
p-Isopropyltoluene	0.50	1.00	ND	ND			
4-Methyl-2-pentanone (MIBK)	2.50	5.00	ND	ND			
Methyl-tert-butyl ether (MTBE)	0.50	1.00	ND	ND			
Methylene chloride (DCM)	2.00	4.00	ND	ND			
Naphthalene	0.50	1.00	ND	ND			
n-Propylbenzene	0.50	1.00	ND	ND			
Styrene	0.50	1.00	ND	ND			
1,1,1,2-Tetrachloroethane	0.50	1.00	ND	ND			
1,1,2,2-Tetrachloroethane	0.50	1.00	ND	ND			
Tetrachloroethene	0.50	1.00	ND	ND			
Toluene (Methyl benzene)	0.50	1.00	ND	ND			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	1.00	ND	ND			
1,2,3-Trichlorobenzene	0.50	1.00	ND	ND			
1,2,4-Trichlorobenzene	0.50	1.00	ND	ND			
1,1,1-Trichloroethane	0.50	1.00	ND	ND			
1,1,2-Trichloroethane	0.50	1.00	ND	ND			
Trichloroethene	0.50	1.00	ND	ND			

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ANALYTICAL RESULTS

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1

Our Lab I.D.			Method Blank	**74265.29**			
Client Sample I.D.				EB-090414-B			
Date Sampled				09/04/2014			
Date Prepared			09/06/2014	09/06/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/06/2014	09/06/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Trichlorofluoromethane	0.50	1.00	ND	ND			
1,2,3-Trichloropropane	0.50	1.00	ND	ND			
1,2,4-Trimethylbenzene	0.50	1.00	ND	ND			
1,3,5-Trimethylbenzene	0.50	1.00	ND	ND			
Vinyl Acetate	0.50	5.00	ND	ND			
Vinyl chloride (Chloroethene)	0.20	0.50	ND	ND			
o-Xylene	0.50	1.00	ND	ND			
m,p-Xylenes	0.50	1.00	ND	ND			
Our Lab I.D.			Method Blank	**74265.29**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		106	104			
Dibromofluoromethane	75-125		96.8	99.1			
Toluene-d8	75-125		103	104			

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0905141C4

Our Lab I.D.			Method Blank	74265.29			
Client Sample I.D.				EB-090414-B			
Date Sampled				09/04/2014			
Date Prepared			09/05/2014	09/05/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/08/2014	09/08/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090514-1

Our Lab I.D.			Method Blank	74265.29			
Client Sample I.D.				EB-090414-B			
Date Sampled				09/04/2014			
Date Prepared			09/05/2014	09/05/2014			
Preparation Method			7199	7199			
Date Analyzed			09/05/2014	09/05/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0905141C4; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/08/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.00950	95.0	0.0100	0.00864	86.4	9.5	75-125	<15

QC Batch No: 0905141C4; Dup or Spiked Sample: 74237.14; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/08/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.00957	95.7	0.0100	0.00963	96.3	<1	75-125	<15	

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Burbank Metals

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Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090514-1; Dup or Spiked Sample: 74264.01; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/05/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.289M	28.9	1.00	0.217M	21.7	28.5	80-120	<20

QC Batch No: 090514-1; Dup or Spiked Sample: 74264.01; LCS: Clean Water; QC Prepared: 09/05/2014; QC Analyzed: 09/05/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	1.13	113	1.00	1.13	113	<1	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1; Dup or Spiked Sample: B0906141A1; LCS: Clean Water; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	48.5	97.0	50.0	48.5	97.0	<1	75-125	<20
Chlorobenzene	0.00	50.0	46.3	92.6	50.0	45.4	90.8	1.96	75-125	<20
1,1-Dichloroethene	0.00	50.0	54.5	109	50.0	54.5	109	<1	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	48.6	97.2	50.0	50.5	101	3.83	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	46.9	93.8	50.0	46.0	92.0	1.94	75-125	<20
Trichloroethene	0.00	50.0	54.0	108	50.0	54.0	108	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	45.3	90.5	50.0	45.1	90.2	<1	75-125	<20
Dibromofluoromethane	0.00	50.0	48.7	97.3	50.0	49.9	99.7	2.47	75-125	<20
Toluene-d8	0.00	50.0	51.0	102	50.0	50.5	101	<1	75-125	<20

QC Batch No: 0906141A1; Dup or Spiked Sample: B0906141A1; LCS: Clean Water; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	51.1	102	50.0	50.1	100	1.98	75-125	<20	
Chlorobenzene	50.0	50.9	102	50.0	48.3	97.0	5.03	75-125	<20	
1,1-Dichloroethene	50.0	57.6	115	50.0	56.4	113	1.75	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	47.0	94.0	50.0	47.6	95.0	1.06	75-125	<20	
Toluene (Methyl benzene)	50.0	51.3	103	50.0	48.9	98.0	4.98	75-125	<20	
Trichloroethene	50.0	56.6	113	50.0	54.9	110	2.69	75-125	<20	
LCS										
Chloroform (Trichloromethane)	50.0	50.4	101	50.0	51.0	102	<1	75-125	<20	
Ethylbenzene	50.0	51.8	104	50.0	48.3	97.0	6.97	75-125	<20	
1,1,1-Trichloroethane	50.0	54.4	109	50.0	52.5	105	3.74	75-125	<20	
o-Xylene	50.0	50.6	101	50.0	48.1	96.0	5.08	75-125	<20	
m,p-Xylenes	100	104	104	100	96.5	96.5	7.48	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	45.2	90.3	50.0	45.5	91.0	<1	75-125	<20	
Dibromofluoromethane	50.0	49.1	98.3	50.0	48.9	97.8	<1	75-125	<20	

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QUALITY CONTROL RESULTS

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906141A1; Dup or Spiked Sample: B0906141A1; LCS: Clean Water; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Toluene-d8	50.0	50.9	102	50.0	50.7	101	<1	75-125	<20	

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0908141C3; Dup or Spiked Sample: 74265.01; LCS: Clean Sand; QC Prepared: 09/08/2014; QC Analyzed: 09/10/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	7.40	10.0	17.1	97.0	10.0	16.6	92.0	5.29	75-125	<15

QC Batch No: 0908141C3; Dup or Spiked Sample: 74265.01; LCS: Clean Sand; QC Prepared: 09/08/2014; QC Analyzed: 09/10/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	1.04	104	1.00	1.07	107	2.84	75-125	<15	

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Burbank Metals

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Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 090614-1; Dup or Spiked Sample: 74265.01; LCS: Clean Sand; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.217	86.7	0.250	0.248	99.2	13.4	80-120	<20

QC Batch No: 090614-1; Dup or Spiked Sample: 74265.01; LCS: Clean Sand; QC Prepared: 09/06/2014; QC Analyzed: 09/06/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.260	104	0.250	0.270	108	3.8	80-120	<20	

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Burbank Metals

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Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74265	09/05/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090514-1; Dup or Spiked Sample: 74265.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	4.90	4.90	<1	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Number of Pages	**25**
Date Received	**09/09/2014**
Date Reported	**09/17/2014**

Job Number	Order Date	Client
74312	09/09/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 15 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74312

DATE 09/05/14 PAGE 1 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soils Inv
PROJECT MANAGER: T. Villeneuve/M. Weinberger
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Subcat Total Chrome	Sw7199 Hex Chrom	HOLD	VOCs 8260B	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	EB-090514-B	09/05/14	1900	X	X		X	U	W	G/P	5	see label	74312.01
2.	AOC3-1-15		2252	X	X				S	SB	1	NR	74312.02
3.	AOC3-1-20		2256	X	X						1		74312.03
4.	AOC3-1-25		2301			X					1		74312.04
5.	AOC3-1-30		2305	X	X						1		74312.05
6.	AOC3-1-35		2309			X					1		74312.06
7.	AOC3-1-40		2314	X	X						1		74312.07
8.	AOC3-1-45		2318			X					1		74312.08
9.	AOC3-1-50		2326			X					1		74312.09
10.	AOC3-1-55		2330	X	X						1		74312.10

PARAMETERS

TURN-AROUND TIME: Standard

Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY: P. Henderson	SIGNATURE	TETRA TECH, INC.	DATE 9-8-2014	TIME 2059	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY TT	DATE 9/8/14	TIME 2059	METHOD OF SHIPMENT/SHIPMENT NO.: Courier
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY TT	DATE 9/9/14	TIME 820	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Claude	SIGNATURE	COMPANY BETC	DATE 09/09/14	TIME 0820	

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DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
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San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74312

DATE 09/06/14 PAGE 2 OF 3

CLIENT: LMC
PROJECT NAME: Burbank
PROJECT MANAGER: T. Villeneuve / M. Weinberger
TC #: 100-SBO-T3955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	SW6020 Total Cr(VI)	SW7199 Hexchrom	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC3-1-60	09/05/14	2335	X	X		U	S	SB	1	NP	74312.11
2.	AOC3-1-65	09/05/14	2338			X				1		74312.12
3.	AOC3-1-70	09/05/14	2346	X	X					1		74312.13
4.	AOC3-1-75	09/05/14	2353			X				1		74312.14
5.	AOC3-1-80	09/05/14	2359			X				1		74312.15
6.	AOC3-1-85	09/06/14	0005	X	X					1		74312.16
7.	AOC3-1-90	09/06/14	0009	X	X					1		74312.17
8.	AOC3-1-95	09/06/14	0012			X				1		74312.18
9.	AOC3-1-105	09/06/14	0026			X				1		74312.19
10.	AOC3-1-110	09/06/14	0044	X	X					1		74312.20

PARAMETERS

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	
P. Henderson		TETRA TECH, INC.	9-8-2014	2059	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: M Weinberger		Tt	9/8/14	2057	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY: M Weinberger		Tt	9/9/14	820	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Lenn Laude		AETC	09/09/14	0820	

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CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74312

DATE 09/06/14 PAGE 3 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Inv

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: 100-SBO-T32955

SAMPLERS (Signatures)

PARAMETERS

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report all data to MDL

LINE ITEM	SAMPLE NO.	DATE	TIME	SW6020 Total Chrom	SW7199 Hex Chrom	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC3-1-115	09/06/14	0049	X	X		U	S	SB	1	NR	74312.21
2.	AOC3-1-120	09/06/14	0051			X				1		74312.22
3.	AOC3-1-125	09/06/14	0101	X	X					1		74312.23
4.	AOC3-1-130	09/06/14	0111			X				1		74312.24
5.	AOC3-1-135	09/06/14	0118	X	X					1		74312.25
6.	AOC3-1-140	09/06/14	0123			X				1		74312.26
7.	AOC3-1-145	09/06/14	0128			X				1		74312.27
8.	AOC3-1-150	09/06/14	0135	X	X					1		74312.28
9.	AOC3-1-135-DUP	09/06/14	0130	X	X				G	1		74312.29
10.												

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 9
P. Henderson		TETRA TECH, INC.	9-8-2014	2059	
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE: 9/8/14	TIME: 2059	METHOD OF SHIPMENT/SHIPMENT NO.: courier
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE: 9/9/14	TIME: 0800	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Sander	SIGNATURE	COMPANY: ASL	DATE: 09/09/14	TIME: 0820	

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COOLER RECEIPT FORM

Client Name: Tetra Tech

Project Name:

AETL Job Number: 74311 & 74312

Date Received: 09/09/14 Received by: Jean Claude

Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.1°C; No 2: 3.2°C; No 3: ____

Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify): ____

How are samples preserved: ☐ None, ☐ Ice , ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, NaOH, ZnOAc, ☒ HCl, _ $Na_2S_2O_3$, MeOH

_ Other (Specify): NH_4OH

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	✓		
11. Are the jars free of headspace?	N/A		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/09/2014
Date Reported 09/17/2014

Job Number	Order Date	Client
74312	09/09/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 29 samples with the following specification on 09/09/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74312.01	EB-090514-B	09/05/2014	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/16/2014	2	Normal	mg/L
7199 ^ MG/L	09/16/2014	2	Normal	mg/L
8260B ^ BOU	09/16/2014	2	Normal	ug/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74312.02	AOC3-1-15	09/05/2014	Soil	1
74312.03	AOC3-1-20	09/05/2014	Soil	1
74312.05	AOC3-1-30	09/05/2014	Soil	1
74312.07	AOC3-1-40	09/05/2014	Soil	1
74312.10	AOC3-1-55	09/05/2014	Soil	1
74312.11	AOC3-1-60	09/05/2014	Soil	1
74312.13	AOC3-1-70	09/05/2014	Soil	1
74312.16	AOC3-1-85	09/06/2014	Soil	1
74312.17	AOC3-1-90	09/06/2014	Soil	1
74312.20	AOC3-1-110	09/06/2014	Soil	1
74312.21	AOC3-1-115	09/06/2014	Soil	1
74312.23	AOC3-1-125	09/06/2014	Soil	1
74312.25	AOC3-1-135	09/06/2014	Soil	1
74312.28	AOC3-1-150	09/06/2014	Soil	1
74312.29	AOC3-1-135-DUP	09/06/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/16/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/16/2014	2	Normal	mg/Kg
ASTM-D2216	09/16/2014	2	Normal	% wt

Continued

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301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/09/2014
Date Reported 09/17/2014

Job Number	Order Date	Client
74312	09/09/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74312.04	AOC3-1-25	09/05/2014	Soil	1
74312.06	AOC3-1-35	09/05/2014	Soil	1
74312.08	AOC3-1-45	09/05/2014	Soil	1
74312.09	AOC3-1-50	09/05/2014	Soil	1
74312.12	AOC3-1-65	09/05/2014	Soil	1
74312.14	AOC3-1-75	09/05/2014	Soil	1
74312.15	AOC3-1-80	09/05/2014	Soil	1
74312.18	AOC3-1-95	09/06/2014	Soil	1
74312.19	AOC3-1-105	09/06/2014	Soil	1
74312.22	AOC3-1-120	09/06/2014	Soil	1
74312.24	AOC3-1-130	09/06/2014	Soil	1
74312.26	AOC3-1-140	09/06/2014	Soil	1
74312.27	AOC3-1-145	09/06/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
ARCHIVE	09/16/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Holding time of sample 74312.01 (EB-090514-B) was extended by addition of ammonium sulfate buffer.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

Page: **2**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0915141A1

Our Lab I.D.			Method Blank	74312.01			
Client Sample I.D.				EB-090514-B			
Date Sampled				09/05/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	10.0	10.0	ND	ND			
Benzene	0.20	0.50	ND	ND			
Bromobenzene (Phenyl bromide)	0.50	1.00	ND	ND			
Bromochloromethane	0.50	1.00	ND	ND			
Bromodichloromethane	0.50	1.00	ND	ND			
Bromoform (Tribromomethane)	0.50	1.00	ND	ND			
Bromomethane (Methyl bromide)	1.50	3.00	ND	ND			
2-Butanone (MEK)	2.50	5.00	ND	ND			
n-Butylbenzene	0.50	1.00	ND	ND			
sec-Butylbenzene	0.50	1.00	ND	ND			
tert-Butylbenzene	0.50	1.00	ND	ND			
Carbon Disulfide	0.50	5.00	ND	ND			
Carbon tetrachloride	0.20	0.50	ND	ND			
Chlorobenzene	0.50	1.00	ND	ND			
Chloroethane	0.50	1.00	ND	ND			
2-Chloroethyl vinyl ether	2.50	5.00	ND	ND			
Chloroform (Trichloromethane)	0.50	1.00	ND	ND			
Chloromethane (Methyl chloride)	1.50	3.00	ND	ND			
2-Chlorotoluene	0.50	1.00	ND	ND			
4-Chlorotoluene	0.50	1.00	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	2.50	5.00	ND	ND			
Dibromochloromethane	0.50	1.00	ND	ND			
1,2-Dibromoethane (EDB)	0.50	1.00	ND	ND			
Dibromomethane	0.50	1.00	ND	ND			
1,2-Dichlorobenzene	0.50	1.00	ND	ND			
1,3-Dichlorobenzene	0.50	1.00	ND	ND			
1,4-Dichlorobenzene	0.50	1.00	ND	ND			

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ANALYTICAL RESULTS

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0915141A1

Our Lab I.D.			Method Blank	**74312.01**			
Client Sample I.D.				EB-090514-B			
Date Sampled				09/05/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Dichlorodifluoromethane	0.50	1.00	ND	ND			
1,1-Dichloroethane	0.50	1.00	ND	ND			
1,2-Dichloroethane (EDC)	0.50	1.00	ND	ND			
1,1-Dichloroethene	0.50	1.00	ND	ND			
cis-1,2-Dichloroethene	0.50	1.00	ND	ND			
trans-1,2-Dichloroethene	0.50	1.00	ND	ND			
1,2-Dichloropropane	0.50	1.00	ND	ND			
1,3-Dichloropropane	0.50	1.00	ND	ND			
2,2-Dichloropropane	0.50	1.00	ND	ND			
1,1-Dichloropropene	0.50	1.00	ND	ND			
cis-1,3-Dichloropropene	0.20	0.50	ND	ND			
trans-1,3-Dichloropropene	0.20	0.50	ND	ND			
Ethylbenzene	0.50	1.00	ND	ND			
Hexachlorobutadiene	1.50	3.00	ND	ND			
2-Hexanone	2.50	5.00	ND	ND			
Iodomethane	0.50	1.00	ND	ND			
Isopropylbenzene	0.50	1.00	ND	ND			
p-Isopropyltoluene	0.50	1.00	ND	ND			
4-Methyl-2-pentanone (MIBK)	2.50	5.00	ND	ND			
Methyl-tert-butyl ether (MTBE)	0.50	1.00	ND	ND			
Methylene chloride (DCM)	2.00	4.00	ND	ND			
Naphthalene	0.50	1.00	ND	ND			
n-Propylbenzene	0.50	1.00	ND	ND			
Styrene	0.50	1.00	ND	ND			
1,1,1,2-Tetrachloroethane	0.50	1.00	ND	ND			
1,1,2,2-Tetrachloroethane	0.50	1.00	ND	ND			
Tetrachloroethene	0.50	1.00	ND	ND			
Toluene (Methyl benzene)	0.50	1.00	ND	ND			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	1.00	ND	ND			
1,2,3-Trichlorobenzene	0.50	1.00	ND	ND			
1,2,4-Trichlorobenzene	0.50	1.00	ND	ND			
1,1,1-Trichloroethane	0.50	1.00	ND	ND			
1,1,2-Trichloroethane	0.50	1.00	ND	ND			
Trichloroethene	0.50	1.00	ND	ND			

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ANALYTICAL RESULTS

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0915141A1

Our Lab I.D.			Method Blank	**74312.01**			
Client Sample I.D.				EB-090514-B			
Date Sampled				09/05/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Trichlorofluoromethane	0.50	1.00	ND	ND			
1,2,3-Trichloropropane	0.50	1.00	ND	ND			
1,2,4-Trimethylbenzene	0.50	1.00	ND	ND			
1,3,5-Trimethylbenzene	0.50	1.00	ND	ND			
Vinyl Acetate	0.50	5.00	ND	ND			
Vinyl chloride (Chloroethene)	0.20	0.50	ND	ND			
o-Xylene	0.50	1.00	ND	ND			
m,p-Xylenes	0.50	1.00	ND	ND			
Our Lab I.D.			Method Blank	**74312.01**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		102	103			
Dibromofluoromethane	75-125		96.1	98.5			
Toluene-d8	75-125		102	101			

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **5**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0911141C5

Our Lab I.D.			Method Blank	74312.01			
Client Sample I.D.				EB-090514-B			
Date Sampled				09/05/2014			
Date Prepared			09/11/2014	09/11/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/12/2014	09/12/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091014-1

Our Lab I.D.			Method Blank	74312.01			
Client Sample I.D.				EB-090514-B			
Date Sampled				09/05/2014			
Date Prepared			09/10/2014	09/10/2014			
Preparation Method			7199	7199			
Date Analyzed			09/10/2014	09/10/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/11/2014				
Preparation Method			3050B				
Date Analyzed			09/12/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C2

Our Lab I.D.			74312.02	74312.03	74312.05	74312.07	74312.10
Client Sample I.D.			AOC3-1-15	AOC3-1-20	AOC3-1-30	AOC3-1-40	AOC3-1-55
Date Sampled			09/05/2014	09/05/2014	09/05/2014	09/05/2014	09/05/2014
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	3.40	2.42	17.0	9.73	23.1

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C2

Our Lab I.D.			74312.11	74312.13	74312.16	74312.17	74312.20
Client Sample I.D.			AOC3-1-60	AOC3-1-70	AOC3-1-85	AOC3-1-90	AOC3-1-110
Date Sampled			09/05/2014	09/05/2014	09/06/2014	09/06/2014	09/06/2014
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	27.9	2.52	6.40	2.65	3.10

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C2

Our Lab I.D.			74312.21	74312.23	74312.25	74312.28	74312.29
Client Sample I.D.			AOC3-1-115	AOC3-1-125	AOC3-1-135	AOC3-1-150	AOC3-1-135-DUP
Date Sampled			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	2.10	5.57	12.1	12.0	8.49

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091114-1

Our Lab I.D.			Method Blank	74312.02	74312.03	74312.05	74312.07
Client Sample I.D.				AOC3-1-15	AOC3-1-20	AOC3-1-30	AOC3-1-40
Date Sampled				09/05/2014	09/05/2014	09/05/2014	09/05/2014
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091114-1

Our Lab I.D.			74312.10	74312.11	74312.13	74312.16	74312.17
Client Sample I.D.			AOC3-1-55	AOC3-1-60	AOC3-1-70	AOC3-1-85	AOC3-1-90
Date Sampled			09/05/2014	09/05/2014	09/05/2014	09/06/2014	09/06/2014
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091114-1

Our Lab I.D.			74312.20	74312.21	74312.23	74312.25	74312.28
Client Sample I.D.			AOC3-1-110	AOC3-1-115	AOC3-1-125	AOC3-1-135	AOC3-1-150
Date Sampled			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091114-1

Our Lab I.D.			**74312.29**				
Client Sample I.D.			AOC3-1-135-DUP				
Date Sampled			09/06/2014				
Date Prepared			09/11/2014				
Preparation Method			3060A				
Date Analyzed			09/11/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (VI)	0.10	0.10	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090914-1

Our Lab I.D.			Method Blank	74312.02	74312.03	74312.05	74312.07
Client Sample I.D.				AOC3-1-15	AOC3-1-20	AOC3-1-30	AOC3-1-40
Date Sampled				09/05/2014	09/05/2014	09/05/2014	09/05/2014
Date Prepared			09/09/2014	09/09/2014	09/09/2014	09/09/2014	09/09/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	6.40	13.2	15.9	18.6

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090914-1

Our Lab I.D.			74312.10	74312.11	74312.13	74312.16	74312.17
Client Sample I.D.			AOC3-1-55	AOC3-1-60	AOC3-1-70	AOC3-1-85	AOC3-1-90
Date Sampled			09/05/2014	09/05/2014	09/05/2014	09/06/2014	09/06/2014
Date Prepared			09/09/2014	09/09/2014	09/09/2014	09/09/2014	09/09/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	22.6	22.9	13.4	12.2	12.6

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090914-1

Our Lab I.D.			74312.20	74312.21	74312.23	74312.25	74312.28
Client Sample I.D.			AOC3-1-110	AOC3-1-115	AOC3-1-125	AOC3-1-135	AOC3-1-150
Date Sampled			09/06/2014	09/06/2014	09/06/2014	09/06/2014	09/06/2014
Date Prepared			09/09/2014	09/09/2014	09/09/2014	09/09/2014	09/09/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	9.62	11.6	16.0	15.8	12.3

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090914-1

Our Lab I.D.			74312.29				
Client Sample I.D.			AOC3-1-135-DUP				
Date Sampled			09/06/2014				
Date Prepared			09/09/2014				
Preparation Method			ASTM-D2216				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			% wt				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Moisture Content	0.1	0.1	13.9				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0911141C5; Dup or Spiked Sample: 74317.01; LCS: Clean Water; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	88.8	0.0100	0.0100	88.7	<1	75-125	<15

QC Batch No: 0911141C5; Dup or Spiked Sample: 74317.01; LCS: Clean Water; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	96.4	0.0100	0.0100	95.7	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091014-1; Dup or Spiked Sample: 74312.01; LCS: Clean Water; QC Prepared: 09/10/2014; QC Analyzed: 09/10/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.768M	76.8	1.00	0.678M	67.8	12.4	80-120	<20

QC Batch No: 091014-1; Dup or Spiked Sample: 74312.01; LCS: Clean Water; QC Prepared: 09/10/2014; QC Analyzed: 09/10/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.985	98.5	1.00	1.04	104	5.4	80-120	<20	

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **21**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0915141A1; Dup or Spiked Sample: B0915141A1; LCS: Clean Water; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	51.5	103	50.0	49.8	99.6	3.36	75-125	<20
Chlorobenzene	0.00	50.0	51.0	102	50.0	49.8	99.6	2.38	75-125	<20
1,1-Dichloroethene	0.00	50.0	53.5	107	50.0	51.5	103	3.81	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	55.0	110	50.0	54.0	108	1.83	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	50.0	100	50.0	49.2	98.4	1.61	75-125	<20
Trichloroethene	0.00	50.0	51.5	103	50.0	54.0	108	4.74	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	44.3	88.5	50.0	44.6	89.1	<1	75-125	<20
Dibromofluoromethane	0.00	50.0	53.0	106	50.0	53.0	106	<1	75-125	<20
Toluene-d8	0.00	50.0	50.5	101	50.0	49.8	99.6	1.39	75-125	<20

QC Batch No: 0915141A1; Dup or Spiked Sample: B0915141A1; LCS: Clean Water; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	53.2	106	50.0	50.6	101	4.83	75-125	<20	
Chlorobenzene	50.0	55.1	110	50.0	53.1	106	3.70	75-125	<20	
1,1-Dichloroethene	50.0	52.2	104	50.0	51.2	102	1.94	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	53.1	106	50.0	52.1	104	1.90	75-125	<20	
Toluene (Methyl benzene)	50.0	54.2	108	50.0	52.4	105	2.82	75-125	<20	
Trichloroethene	50.0	52.5	105	50.0	50.3	101	3.88	75-125	<20	
LCS										
Chloroform (Trichloromethane)	50.0	52.5	105	50.0	49.9	100	4.88	75-125	<20	
Ethylbenzene	50.0	55.0	110	50.0	53.3	107	2.76	75-125	<20	
1,1,1-Trichloroethane	50.0	50.5	101	50.0	49.6	99.0	2.00	75-125	<20	
o-Xylene	50.0	55.0	110	50.0	53.4	107	2.76	75-125	<20	
m,p-Xylenes	100	112	112	100	109	109	2.71	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	42.5	85.0	50.0	42.9	85.7	<1	75-125	<20	
Dibromofluoromethane	50.0	46.8	93.7	50.0	47.6	95.2	1.60	75-125	<20	

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QUALITY CONTROL RESULTS

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0915141A1; Dup or Spiked Sample: B0915141A1; LCS: Clean Water; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Toluene-d8	50.0	48.6	97.2	50.0	49.9	99.7	2.57	75-125	<20	

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QUALITY CONTROL RESULTS

Ordered By

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **23**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C2; Dup or Spiked Sample: 74312.02; LCS: Clean Sand; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	3.18	10.0	12.3	91.2	10.0	12.4	92.2	1.09	75-125	<15

QC Batch No: 0911141C2; Dup or Spiked Sample: 74312.02; LCS: Clean Sand; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.970	97.4	1.00	0.940	93.6	3.98	75-125	<15	

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Page: **24**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091114-1; Dup or Spiked Sample: 74312.02; LCS: Clean Sand; QC Prepared: 09/11/2014; QC Analyzed: 09/11/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.244	97.5	0.250	0.238	95.0	2.6	80-120	<20

QC Batch No: 091114-1; Dup or Spiked Sample: 74312.02; LCS: Clean Sand; QC Prepared: 09/11/2014; QC Analyzed: 09/11/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.263	105	0.250	0.268	107	1.9	80-120	<20	

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Site

Burbank Metals

Page: **25**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74312	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 090914-1; Dup or Spiked Sample: 74312.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	6.40	6.30	1.6	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**21**
Date Received	**09/09/2014**
Date Reported	**09/17/2014**

Job Number	Order Date	Client
74317	09/09/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 15 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74317

CHAIN OF CUSTODY RECORD

DATE SEPT. 9, 2014 PAGE 1 OF 3

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr 6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	EB-090814-A	9-8-14	2145	X	X		U	W	G/P	5	NA/HCl	74317.01
2.	AOC7-2-5		2148			X		S	SB	1	NR	74317.02
3.	AOC7-2-10		2154	X	X							74317.03
4.	AOC7-2-15		2202			X						74317.04
5.	AOC7-2-20		2210	X	X							74317.05
6.	AOC7-2-25		2215			X						74317.06
7.	AOC7-2-30		2220	X	X							74317.07
8.	AOC7-2-35		2225			X						74317.08
9.	AOC7-2-40		2230	X	X							74317.09
10.	AOC7-2-40-DUP		2232	X	X							74317.10

Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
D. MCALISTER		TETRA TECH, INC.	9/9/14	800	14
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE: 9/9/14	TIME: 800	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE: 9/9/14	TIME: 1435	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Artia	SIGNATURE	COMPANY: AETL	DATE: 09/09/14	TIME: 1435	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

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San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: ATL

74317

DATE 9-9-14 PAGE 2 OF 3

CLIENT: LMC

PROJECT NAME: BURBANK MEDIALS

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBO-T32955

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC7-2-45	9-8-14	2240	X	X		U	S	SB	1	NR	Please report all data to MDL — 74317.11
2.	AOC7-2-50		2250			X						74317.12
3.	AOC7-2-55		2255	X	X							74317.13
4.	AOC7-2-60		2301			X						74317.14
5.	AOC7-2-65		2310	X	X							74317.15
6.	AOC7-2-70		2315			X						74317.16
7.	AOC7-2-75		2320	X	X							74317.17
8.	AOC7-2-80		2340			X						74317.18
9.	AOC7-2-85		2350			X						74317.19
10.	AOC7-2-90	9-9-14	0002	X	X							74317.20

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY: D. MCALISTER	SIGNATURE	TETRA TECH, INC.	DATE 9/9/14	TIME 800	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY: Tt	DATE 9/9/14	TIME 800	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY: Tt	DATE 9/9/14	TIME 1435	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Artin	SIGNATURE	COMPANY: ATL	DATE 09/09/14	TIME 1435	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: ABL

CHAIN OF CUSTODY RECORD

74317

DATE 9-9-14 PAGE 3 OF 3

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32855
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr 6+	HEXD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC 7-2-90-DUP	9-9-14	0004	X	X		U	S	SB	1	NR	Please report all data to MDL 74317.21
2.	AOC 7-2-95		0012			X						74317.22
3.	AOC7-2-100		0020	X	X							74317.23
4.	AOC7-2-105		0032			X						74317.24
5.	AOC7-2-110		0040	X	X							74317.25
6.	AOC7-2-115		0050			X						74317.26
7.	AOC7-2-120		0101	X	X							74317.27
8.	AOC7-2-125		0106			X						74317.28
9.	AOC7-2-130		0201	X	X							74317.29
10.	AOC7-2-135		0212			X						74317.30

FILTERING: ☐ FILTERED ☐ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
D Mcalister		TETRA TECH, INC.	9/9/14	800	
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY: Tt	DATE: 9/9/14	TIME: 800	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY: Tt	DATE: 9/9/14	TIME: 1435	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: AETL	SIGNATURE	COMPANY: AETL	DATE: 09/09/14	TIME: 1435	

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COOLER RECEIPT FORM

Client Name: Tetra Tech

Project Name: LMC

AETL Job Number: 74317

Date Received: 09/09/14 Received by: Jean Claude

Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.1°C, No 2: _____, No 3: _____

Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): Brass sleeves

How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc/ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	Y		
2. Are the Sample labels legible?	Y		
3. Do samples match the COC?	Y		
4. Are the required analyses clear?	Y		
5. Is there enough samples for required analysis?	Y		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	Y		
10. Are the VOAs free of headspace?	Y		
11. Are the jars free of headspace?	NA		

Explain all "No" answers for above questions:

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Project ID: 100-SBO-T32955
Date Received 09/09/2014
Date Reported 09/17/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74317	09/09/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 30 samples with the following specification on 09/09/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74317.01	EB-090814-A	09/08/2014	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/16/2014	2	Normal	mg/L
7199 ^ MG/L	09/16/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74317.02	AOC7-2-5	09/08/2014	Soil	1
74317.04	AOC7-2-15	09/08/2014	Soil	1
74317.06	AOC7-2-25	09/08/2014	Soil	1
74317.08	AOC7-2-35	09/08/2014	Soil	1
74317.12	AOC7-2-50	09/08/2014	Soil	1
74317.14	AOC7-2-60	09/08/2014	Soil	1
74317.16	AOC7-2-70	09/08/2014	Soil	1
74317.18	AOC7-2-80	09/08/2014	Soil	1
74317.19	AOC7-2-85	09/08/2014	Soil	1
74317.22	AOC7-2-95	09/09/2014	Soil	1
74317.24	AOC7-2-105	09/09/2014	Soil	1
74317.26	AOC7-2-115	09/09/2014	Soil	1
74317.28	AOC7-2-125	09/09/2014	Soil	1
74317.30	AOC7-2-135	09/09/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/16/2014	2	Normal	--

74317.03	AOC7-2-10	09/08/2014	Soil	1
74317.05	AOC7-2-20	09/08/2014	Soil	1
74317.07	AOC7-2-30	09/08/2014	Soil	1
74317.09	AOC7-2-40	09/08/2014	Soil	1

Continued

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Project ID: 100-SBO-T32955
Date Received 09/09/2014
Date Reported 09/17/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74317	09/09/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74317.10	AOC7-2-40-DUP	09/08/2014	Soil	1
74317.11	AOC7-2-45	09/08/2014	Soil	1
74317.13	AOC7-2-55	09/08/2014	Soil	1
74317.15	AOC7-2-65	09/08/2014	Soil	1
74317.17	AOC7-2-75	09/08/2014	Soil	1
74317.20	AOC7-2-90	09/09/2014	Soil	1
74317.21	AOC7-2-90-DUP	09/09/2014	Soil	1
74317.23	AOC7-2-100	09/09/2014	Soil	1
74317.25	AOC7-2-110	09/09/2014	Soil	1
74317.27	AOC7-2-120	09/09/2014	Soil	1
74317.29	AOC7-2-130	09/09/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ BOU-CR	09/16/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/16/2014	2	Normal	mg/Kg
ASTM-D2216	09/16/2014	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody.
Analytical non-conformances have been noted on the report.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0911141C5

Our Lab I.D.			Method Blank	**74317.01**			
Client Sample I.D.				EB-090814-A			
Date Sampled				09/08/2014			
Date Prepared			09/11/2014	09/11/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/12/2014	09/12/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090914-1

Our Lab I.D.			Method Blank	**74317.01**			
Client Sample I.D.				EB-090814-A			
Date Sampled				09/08/2014			
Date Prepared			09/09/2014	09/09/2014			
Preparation Method			7199	7199			
Date Analyzed			09/09/2014	09/09/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/11/2014				
Preparation Method			3050B				
Date Analyzed			09/12/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C3

Our Lab I.D.			74317.03				
Client Sample I.D.			AOC7-2-10				
Date Sampled			09/08/2014				
Date Prepared			09/11/2014				
Preparation Method			3050B				
Date Analyzed			09/12/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	1.750	5	65.0				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C3

Our Lab I.D.			74317.05	74317.07	74317.09	74317.10	74317.11
Client Sample I.D.			AOC7-2-20	AOC7-2-30	AOC7-2-40	AOC7-2-40-DUP	AOC7-2-45
Date Sampled			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	19.4	4.10	6.57	4.30	4.96

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C3

Our Lab I.D.			74317.13	74317.15	74317.17	74317.20	74317.21
Client Sample I.D.			AOC7-2-55	AOC7-2-65	AOC7-2-75	AOC7-2-90	AOC7-2-90-DUP
Date Sampled			09/08/2014	09/08/2014	09/08/2014	09/09/2014	09/09/2014
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	6.36	6.36	10.4	9.04	7.92

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C3

Our Lab I.D.			74317.23	74317.25	74317.27	74317.29	
Client Sample I.D.			AOC7-2-100	AOC7-2-110	AOC7-2-120	AOC7-2-130	
Date Sampled			09/09/2014	09/09/2014	09/09/2014	09/09/2014	
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			10	10	10	10	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Chromium	0.350	1.000	7.11	8.93	22.7	22.8	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1

Our Lab I.D.			Method Blank	74317.03	74317.05	74317.07	74317.09
Client Sample I.D.				AOC7-2-10	AOC7-2-20	AOC7-2-30	AOC7-2-40
Date Sampled				09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	3.93	1.26	0.760	2.59

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1

Our Lab I.D.			74317.10	74317.11	74317.13	74317.15	74317.17
Client Sample I.D.			AOC7-2-40-DUP	AOC7-2-45	AOC7-2-55	AOC7-2-65	AOC7-2-75
Date Sampled			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	0.406	0.627	1.34	0.745	2.41

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1

Our Lab I.D.			74317.20	74317.21	74317.23	74317.25	74317.27
Client Sample I.D.			AOC7-2-90	AOC7-2-90-DUP	AOC7-2-100	AOC7-2-110	AOC7-2-120
Date Sampled			09/09/2014	09/09/2014	09/09/2014	09/09/2014	09/09/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	1.60	1.36	2.54	4.07	10.5

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1

Our Lab I.D.			74317.29				
Client Sample I.D.			AOC7-2-130				
Date Sampled			09/09/2014				
Date Prepared			09/12/2014				
Preparation Method			3060A				
Date Analyzed			09/12/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (VI)	0.10	0.10	8.20				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			Method Blank	74317.03	74317.05	74317.07	74317.09
Client Sample I.D.				AOC7-2-10	AOC7-2-20	AOC7-2-30	AOC7-2-40
Date Sampled				09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	1.70	13.0	1.90	3.10

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			74317.10	74317.11	74317.13	74317.15	74317.17
Client Sample I.D.			AOC7-2-40-DUP	AOC7-2-45	AOC7-2-55	AOC7-2-65	AOC7-2-75
Date Sampled			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	14.6	4.80	3.00	12.3	8.27

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			74317.20	74317.21	74317.23	74317.25	74317.27
Client Sample I.D.			AOC7-2-90	AOC7-2-90-DUP	AOC7-2-100	AOC7-2-110	AOC7-2-120
Date Sampled			09/09/2014	09/09/2014	09/09/2014	09/09/2014	09/09/2014
Date Prepared			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	21.2	4.54	5.09	6.81	12.4

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			74317.29				
Client Sample I.D.			AOC7-2-130				
Date Sampled			09/09/2014				
Date Prepared			09/10/2014				
Preparation Method			ASTM-D2216				
Date Analyzed			09/10/2014				
Matrix			Soil				
Units			% wt				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Moisture Content	0.1	0.1	10.6				

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QUALITY CONTROL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

Page: **17**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0911141C5; Dup or Spiked Sample: 74317.01; LCS: Clean Water; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	88.8	0.0100	0.0100	88.7	<1	75-125	<15

QC Batch No: 0911141C5; Dup or Spiked Sample: 74317.01; LCS: Clean Water; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	96.4	0.0100	0.0100	95.7	<1	75-125	<15	

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Page: **18**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090914-1; Dup or Spiked Sample: 74311.01; LCS: Clean Water; QC Prepared: 09/09/2014; QC Analyzed: 09/09/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.837	83.7	1.00	0.854	85.4	2.0	80-120	<20

QC Batch No: 090914-1; Dup or Spiked Sample: 74311.01; LCS: Clean Water; QC Prepared: 09/09/2014; QC Analyzed: 09/09/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	1.12	112	1.00	1.12	112	<1	80-120	<20	

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Page: **19**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C3; Dup or Spiked Sample: 74317.03; LCS: Clean Sand; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	63.9	10.0	96.1 M	322	10.0	92.0 M	281	13.6	75-125	<15

QC Batch No: 0911141C3; Dup or Spiked Sample: 74317.03; LCS: Clean Sand; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.980	97.7	1.00	0.950	94.9	2.91	75-125	<15	

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Page: **20**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1; Dup or Spiked Sample: 74317.03; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	3.86	0.250	3.88 M	8.3	0.250	3.89 M	12.5	40.4	80-120	<20

QC Batch No: 091214-1; Dup or Spiked Sample: 74317.03; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.280	112	0.250	0.275	110	1.8	80-120	<20	

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Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

Page: **21**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74317	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1; Dup or Spiked Sample: 74317.03; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	1.70	1.60	6.1	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc. **301 E. Vanderbilt Way Suite 450** **San Bernardino, CA 92408-3559**

Number of Pages	**28**
Date Received	**09/09/2014**
Date Reported	**09/17/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74318	09/09/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 16 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74318

DATE 09/08/14 PAGE 1 OF 4

CLIENT: LMC
PROJECT NAME: Burbank Soils Inv
PROJECT MANAGER: T. Villeneuve/M. Weinberger
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chromium SW6020	Hex Chrom SW7199	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOCS-1-5	09/08/14	2200	X	X		U	S	SB	1	NR	74318-01
2.	AOCS-1-10		2205			X				1		74318-02
3.	AOCS-1-15		2209			X				1		74318.03
4.	AOCS-1-20		2214	X	X					1		74318.04
5.	AOCS-1-25		2216	X	X					1		74318.05
6.	AOCS-1-30		2221			X				1		74318.06
7.	AOCS-1-35		2230			X				1		74318.07
8.	AOCS-1-40		2232	X	X					1		74318.08
9.	AOCS-1-45		2240	X	X					1		74318.09
10.	AOCS-1-50	↓	2245			X	↓	↓	↓	1	↓	74318.10

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
P. Henderson		TETRA TECH, INC.	9/9/14	800	
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE: 9/9/14	TIME: 800	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE: 9/9/14	TIME: 1435	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Artin	SIGNATURE	COMPANY: ACTL	DATE: 09/09/14	TIME: 1435	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO:

CHAIN OF CUSTODY RECORD

77318

DATE 09/08/14 PAGE 2 OF 4

CLIENT: LMC

PROJECT NAME: LMC Burbank Soils INV

PROJECT MANAGER: T. Villeneuve/M Weinberger

TC #: 100-SBO-T32955

SAMPLERS (Signatures): [signatures]

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report all data to MDL

LINE ITEM	SAMPLE NO.	DATE	TIME	SW6020 tot. Chrome	SW7199 Hex Chrome	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	ADC5-1-55	09/08/14	2251			X	U	S	SB	1	N/R	77318.11
2.	ADC5-1-60	09/08/14	2256	X	X					1		77318.12
3.	ADC5-1-65	09/08/14	2259	X	X					1		77318.13
4.	ADC5-1-70	09/08/14	2306			X				1		77318.14
5.	ADC5-1-75	09/08/14	2312	X	X					1		77318.15
6.	ADC5-1-80	09/08/14	2318			X				1		77318.16
7.	ADC5-1-85	09/08/14	2325			X				1		77318.17
8.	ADC5-1-90	09/08/14	2331	X	X					1		77318.18
9.	ADC5-1-95	09/08/14	2338			X				1		77318.19
10.	ADC5-1-100	09/08/14	2348	X	X					1		77318.20

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil, M - Sediment, W - Water

CONTAINER TYPE: G - Glass Bottle/Jar, SS - Stainless Steel Sleeve, SB - Brass Sleeve, P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL, NR (None required), NaOH, H_2SO_4

RELINQUISHED BY / RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY: P. Henderson	[signature]	TETRA TECH, INC.	9/9/14	800
RECEIVED BY: M Weinberg	[signature]	TT	9/9/14	800
RELINQUISHED BY: M Weinberg	[signature]	TT	9/9/14	1435
RECEIVED BY: Artin	[signature]	AETL	09/09/14	1435

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10

METHOD OF SHIPMENT/SHIPMENT NO.:

Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

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Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74318

DATE 09/08/14 PAGE 3 OF 4

CLIENT: LMC

PROJECT NAME: LMC Burbank Soils INV.

PROJECT MANAGER: T. Villeneuve/M Weinberger

TC #: 100-SBD-T32955

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Tot Soluble Chrome	Hex Chrome	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	ADCS-1-105	09/08/14	2351	X	X		U	S	SB	1	NR	74318.21
2.	ADCS-1-110	09/08/14	2359			X	↓	↓	↓	1	↓	74318.22
3.	ADCS-1-115	09/09/14	0007	X	X					1		74318.23
4.	ADCS-1-120	09/09/14	0015			X				1		74318.24
5.	ADCS-1-125	09/09/14	0021			X				1		74318.25
6.	ADCS-1-130	09/09/14	0030	X	X					1		74318.26
7.	ADCS-1-135	09/09/14	0034	X	X					1		74318.27
8.	ADCS-1-140	09/09/14	0044			X				1		74318.28
9.	ADCS-1-145	09/09/14	0049			X				1		74318.29
10.	ADCS-1-150	09/09/14	0055	X	X		↓	↓	↓	1	↓	74318.30

PARAMETERS

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY: P Henderson	SIGNATURE	TETRA TECH, INC.	DATE 9/9/14	TIME 800	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY Tt	DATE 9/9/14	TIME 800	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY Tt	DATE 9/9/14	TIME 1435	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Aatin	SIGNATURE	COMPANY AGIL	DATE 09/09/14	TIME 1435	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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SHIP TO:

CHAIN OF CUSTODY RECORD

74318 DATE 09/09/14 PAGE 4 OF 4

CLIENT: LMC

PROJECT NAME: LMC Burbank Soils INV.

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: 100-SBD-T32955

SAMPLERS (Signature): [signature]

LINE ITEM	SAMPLE NO.	DATE	TIME	SW6020 Tot Chrome	SW7199 Hex Chrome	HDLD	8260B											FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOCS-L125-DUP	09/09/14	0025	X	X													U	S	SB	1	N/R	74318.31
2.	EB-090814-B	09/08/14	1900	X	X		X											U	W	G/P	5	see label	74318.32
3.																							
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY: P. Henderson	[signature]	TETRA TECH, INC.	9/9/14	800
RECEIVED BY: M Weinberger	[signature]	Tt	9/9/14	800
RELINQUISHED BY: M Weinberger	[signature]	Tt	9/9/14	1435
RECEIVED BY: Artin	[signature]	AETL	09/09/14	1435

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:

METHOD OF SHIPMENT/SHIPMENT NO.

Special Shipping/Handling/Storage Requirements:

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COOLER RECEIPT FORM

Client Name: Tetra Tech

Project Name: LMC

AETL Job Number: 74318

Date Received: 09/09/14 Received by: Leon Landa

Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (|) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.5°, No 2: ____, No 3: ____

Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): Brass sleeves

How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, X HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	X		
2. Are the Sample labels legible?	X		
3. Do samples match the COC?	X		
4. Are the required analyses clear?	X		
5. Is there enough samples for required analysis?	X		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	X		
8. Are samples preserved?	X		
9. Are samples preserved properly for the intended analysis?	X		
10. Are the VOAs free of headspace?	X		
11. Are the jars free of headspace?	NA		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Project ID: 100-SBO-T32955
Date Received 09/09/2014
Date Reported 09/17/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74318	09/09/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 32 samples with the following specification on 09/09/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74318.32	EB-090814-B	09/08/2014	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/16/2014	2	Normal	mg/L
7199 ^ MG/L	09/16/2014	2	Normal	mg/L
8260B ^ BOU	09/16/2014	2	Normal	ug/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74318.01	AOC5-1-5	09/08/2014	Soil	1
74318.04	AOC5-1-20	09/08/2014	Soil	1
74318.05	AOC5-1-25	09/08/2014	Soil	1
74318.08	AOC5-1-40	09/08/2014	Soil	1
74318.09	AOC5-1-45	09/08/2014	Soil	1
74318.12	AOC5-1-60	09/08/2014	Soil	1
74318.13	AOC5-1-65	09/08/2014	Soil	1
74318.15	AOC5-1-75	09/08/2014	Soil	1
74318.18	AOC5-1-90	09/08/2014	Soil	1
74318.20	AOC5-1-100	09/08/2014	Soil	1
74318.21	AOC5-1-105	09/08/2014	Soil	1
74318.23	AOC5-1-115	09/09/2014	Soil	1
74318.26	AOC5-1-130	09/09/2014	Soil	1
74318.27	AOC5-1-135	09/09/2014	Soil	1
74318.30	AOC5-1-150	09/09/2014	Soil	1
74318.31	AOC5-1-125-DUP	09/09/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/16/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/16/2014	2	Normal	mg/Kg
ASTM-D2216	09/16/2014	2	Normal	% wt

Continued

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Tetra Tech, Inc.
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San Bernardino, CA 92408-3559

Project ID: 100-SBO-T32955
Date Received 09/09/2014
Date Reported 09/17/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74318	09/09/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74318.02	AOC5-1-10	09/08/2014	Soil	1
74318.03	AOC5-1-15	09/08/2014	Soil	1
74318.06	AOC5-1-30	09/08/2014	Soil	1
74318.07	AOC5-1-35	09/08/2014	Soil	1
74318.10	AOC5-1-50	09/08/2014	Soil	1
74318.11	AOC5-1-55	09/08/2014	Soil	1
74318.14	AOC5-1-70	09/08/2014	Soil	1
74318.16	AOC5-1-80	09/08/2014	Soil	1
74318.17	AOC5-1-85	09/08/2014	Soil	1
74318.19	AOC5-1-95	09/08/2014	Soil	1
74318.22	AOC5-1-110	09/08/2014	Soil	1
74318.24	AOC5-1-120	09/09/2014	Soil	1
74318.25	AOC5-1-125	09/09/2014	Soil	1
74318.28	AOC5-1-140	09/09/2014	Soil	1
74318.29	AOC5-1-145	09/09/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/16/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

Burbank Metals

Page: **2**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0915141A1

Our Lab I.D.			Method Blank	**74318.32**			
Client Sample I.D.				EB-090814-B			
Date Sampled				09/08/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	10.0	10.0	ND	ND			
Benzene	0.20	0.50	ND	ND			
Bromobenzene (Phenyl bromide)	0.50	1.00	ND	ND			
Bromochloromethane	0.50	1.00	ND	ND			
Bromodichloromethane	0.50	1.00	ND	ND			
Bromoform (Tribromomethane)	0.50	1.00	ND	ND			
Bromomethane (Methyl bromide)	1.50	3.00	ND	ND			
2-Butanone (MEK)	2.50	5.00	ND	ND			
n-Butylbenzene	0.50	1.00	ND	ND			
sec-Butylbenzene	0.50	1.00	ND	ND			
tert-Butylbenzene	0.50	1.00	ND	ND			
Carbon Disulfide	0.50	5.00	ND	ND			
Carbon tetrachloride	0.20	0.50	ND	ND			
Chlorobenzene	0.50	1.00	ND	ND			
Chloroethane	0.50	1.00	ND	ND			
2-Chloroethyl vinyl ether	2.50	5.00	ND	ND			
Chloroform (Trichloromethane)	0.50	1.00	ND	ND			
Chloromethane (Methyl chloride)	1.50	3.00	ND	ND			
2-Chlorotoluene	0.50	1.00	ND	ND			
4-Chlorotoluene	0.50	1.00	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	2.50	5.00	ND	ND			
Dibromochloromethane	0.50	1.00	ND	ND			
1,2-Dibromoethane (EDB)	0.50	1.00	ND	ND			
Dibromomethane	0.50	1.00	ND	ND			
1,2-Dichlorobenzene	0.50	1.00	ND	ND			
1,3-Dichlorobenzene	0.50	1.00	ND	ND			
1,4-Dichlorobenzene	0.50	1.00	ND	ND			

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ANALYTICAL RESULTS

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0915141A1

Our Lab I.D.			Method Blank	**74318.32**			
Client Sample I.D.				EB-090814-B			
Date Sampled				09/08/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Dichlorodifluoromethane	0.50	1.00	ND	ND			
1,1-Dichloroethane	0.50	1.00	ND	ND			
1,2-Dichloroethane (EDC)	0.50	1.00	ND	ND			
1,1-Dichloroethene	0.50	1.00	ND	ND			
cis-1,2-Dichloroethene	0.50	1.00	ND	ND			
trans-1,2-Dichloroethene	0.50	1.00	ND	ND			
1,2-Dichloropropane	0.50	1.00	ND	ND			
1,3-Dichloropropane	0.50	1.00	ND	ND			
2,2-Dichloropropane	0.50	1.00	ND	ND			
1,1-Dichloropropene	0.50	1.00	ND	ND			
cis-1,3-Dichloropropene	0.20	0.50	ND	ND			
trans-1,3-Dichloropropene	0.20	0.50	ND	ND			
Ethylbenzene	0.50	1.00	ND	ND			
Hexachlorobutadiene	1.50	3.00	ND	ND			
2-Hexanone	2.50	5.00	ND	ND			
Iodomethane	0.50	1.00	ND	ND			
Isopropylbenzene	0.50	1.00	ND	ND			
p-Isopropyltoluene	0.50	1.00	ND	ND			
4-Methyl-2-pentanone (MIBK)	2.50	5.00	ND	ND			
Methyl-tert-butyl ether (MTBE)	0.50	1.00	ND	ND			
Methylene chloride (DCM)	2.00	4.00	ND	ND			
Naphthalene	0.50	1.00	ND	ND			
n-Propylbenzene	0.50	1.00	ND	ND			
Styrene	0.50	1.00	ND	ND			
1,1,1,2-Tetrachloroethane	0.50	1.00	ND	ND			
1,1,2,2-Tetrachloroethane	0.50	1.00	ND	ND			
Tetrachloroethene	0.50	1.00	ND	ND			
Toluene (Methyl benzene)	0.50	1.00	ND	ND			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	1.00	ND	ND			
1,2,3-Trichlorobenzene	0.50	1.00	ND	ND			
1,2,4-Trichlorobenzene	0.50	1.00	ND	ND			
1,1,1-Trichloroethane	0.50	1.00	ND	ND			
1,1,2-Trichloroethane	0.50	1.00	ND	ND			
Trichloroethene	0.50	1.00	ND	ND			

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ANALYTICAL RESULTS

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0915141A1

Our Lab I.D.			Method Blank	**74318.32**			
Client Sample I.D.				EB-090814-B			
Date Sampled				09/08/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			5030B	5030B			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Trichlorofluoromethane	0.50	1.00	ND	ND			
1,2,3-Trichloropropane	0.50	1.00	ND	ND			
1,2,4-Trimethylbenzene	0.50	1.00	ND	ND			
1,3,5-Trimethylbenzene	0.50	1.00	ND	ND			
Vinyl Acetate	0.50	5.00	ND	ND			
Vinyl chloride (Chloroethene)	0.20	0.50	ND	ND			
o-Xylene	0.50	1.00	ND	ND			
m,p-Xylenes	0.50	1.00	ND	ND			
Our Lab I.D.			Method Blank	**74318.32**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		102	103			
Dibromofluoromethane	75-125		96.1	105			
Toluene-d8	75-125		102	101			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0911141C5

Our Lab I.D.			Method Blank	74318.32			
Client Sample I.D.				EB-090814-B			
Date Sampled				09/08/2014			
Date Prepared			09/11/2014	09/11/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/12/2014	09/12/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090914-1

Our Lab I.D.			Method Blank	74318.32			
Client Sample I.D.				EB-090814-B			
Date Sampled				09/08/2014			
Date Prepared			09/09/2014	09/09/2014			
Preparation Method			7199	7199			
Date Analyzed			09/09/2014	09/09/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/11/2014				
Preparation Method			3050B				
Date Analyzed			09/12/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C4

Our Lab I.D.			74318.01	74318.04	74318.05	74318.08	74318.09
Client Sample I.D.			AOC5-1-5	AOC5-1-20	AOC5-1-25	AOC5-1-40	AOC5-1-45
Date Sampled			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	5.99	4.67	11.8	6.44	2.57

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C4

Our Lab I.D.			74318.12	74318.13	74318.15	74318.18	74318.20
Client Sample I.D.			AOC5-1-60	AOC5-1-65	AOC5-1-75	AOC5-1-90	AOC5-1-100
Date Sampled			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	19.3	4.41	17.0	4.28	8.44

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C4

Our Lab I.D.			74318.21	74318.23	74318.26	74318.27	74318.30
Client Sample I.D.			AOC5-1-105	AOC5-1-115	AOC5-1-130	AOC5-1-135	AOC5-1-150
Date Sampled			09/08/2014	09/09/2014	09/09/2014	09/09/2014	09/09/2014
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	11.8	2.34	3.23	3.23	3.87

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C4

Our Lab I.D.			74318.31				
Client Sample I.D.			AOC5-1-125-DUP				
Date Sampled			09/09/2014				
Date Prepared			09/11/2014				
Preparation Method			3050B				
Date Analyzed			09/12/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	2.64				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1

Our Lab I.D.			Method Blank	74318.01	74318.04	74318.05	74318.08
Client Sample I.D.				AOC5-1-5	AOC5-1-20	AOC5-1-25	AOC5-1-40
Date Sampled				09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1

Our Lab I.D.			74318.09				
Client Sample I.D.			AOC5-1-45				
Date Sampled			09/08/2014				
Date Prepared			09/12/2014				
Preparation Method			3060A				
Date Analyzed			09/12/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (VI)	0.10	0.10	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			Method Blank	74318.12	74318.13	74318.15	74318.18
Client Sample I.D.				AOC5-1-60	AOC5-1-65	AOC5-1-75	AOC5-1-90
Date Sampled				09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			74318.20	74318.21	74318.23	74318.26	74318.27
Client Sample I.D.			AOC5-1-100	AOC5-1-105	AOC5-1-115	AOC5-1-130	AOC5-1-135
Date Sampled			09/08/2014	09/08/2014	09/09/2014	09/09/2014	09/09/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			74318.30	74318.31			
Client Sample I.D.			AOC5-1-150	AOC5-1-125-DUP			
Date Sampled			09/09/2014	09/09/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			3060A	3060A			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.10	0.10	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			Method Blank	74318.01	74318.04	74318.05	74318.08
Client Sample I.D.				AOC5-1-5	AOC5-1-20	AOC5-1-25	AOC5-1-40
Date Sampled				09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	6.20	8.90	10.3	3.80

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			74318.09	74318.12	74318.13	74318.15	74318.18
Client Sample I.D.			AOC5-1-45	AOC5-1-60	AOC5-1-65	AOC5-1-75	AOC5-1-90
Date Sampled			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	1.80	12.3	14.3	2.50	3.60

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			74318.20	74318.21	74318.23	74318.26	74318.27
Client Sample I.D.			AOC5-1-100	AOC5-1-105	AOC5-1-115	AOC5-1-130	AOC5-1-135
Date Sampled			09/08/2014	09/08/2014	09/09/2014	09/09/2014	09/09/2014
Date Prepared			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	3.04	3.65	5.41	2.15	2.21

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			74318.30	74318.31			
Client Sample I.D.			AOC5-1-150	AOC5-1-125-DUP			
Date Sampled			09/09/2014	09/09/2014			
Date Prepared			09/10/2014	09/10/2014			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			09/11/2014	09/11/2014			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	5.36	5.93			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0911141C5; Dup or Spiked Sample: 74317.01; LCS: Clean Water; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.00888	88.8	0.0100	0.00887	88.7	<1	75-125	<15

QC Batch No: 0911141C5; Dup or Spiked Sample: 74317.01; LCS: Clean Water; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.00964	96.4	0.0100	0.00957	95.7	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 090914-1; Dup or Spiked Sample: 74312.01; LCS: Clean Water; QC Prepared: 09/09/2014; QC Analyzed: 09/09/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.837	83.7	1.00	0.854	85.4	2.0	80-120	<20

QC Batch No: 090914-1; Dup or Spiked Sample: 74312.01; LCS: Clean Water; QC Prepared: 09/09/2014; QC Analyzed: 09/09/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	1.12	112	1.00	1.12	112	<1	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0915141A1; Dup or Spiked Sample: B0915141A1; LCS: Clean Water; QC Prepared: 09/15/2014;MS Analyzed: 09/16/2014; LCS Analyzed: 09/15/2014; Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	51.5	103	50.0	49.8	99.6	3.36	75-125	<20
Chlorobenzene	0.00	50.0	51.0	102	50.0	49.8	99.6	2.38	75-125	<20
1,1-Dichloroethene	0.00	50.0	53.5	107	50.0	51.5	103	3.81	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	55.0	110	50.0	54.0	108	1.83	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	50.0	100	50.0	49.2	98.4	1.61	75-125	<20
Trichloroethene	0.00	50.0	51.5	103	50.0	54.0	108	4.74	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	44.3	88.5	50.0	44.6	89.1	<1	75-125	<20
Dibromofluoromethane	0.00	50.0	53.0	106	50.0	53.0	106	<1	75-125	<20
Toluene-d8	0.00	50.0	50.5	101	50.0	49.8	99.6	1.39	75-125	<20

QC Batch No: 0915141A1; Dup or Spiked Sample: B0915141A1; LCS: Clean Water; QC Prepared: 09/15/2014;MS Analyzed: 09/16/2014; LCS Analyzed: 09/15/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	53.2	106	50.0	50.6	101	4.83	75-125	<20	
Chlorobenzene	50.0	55.1	110	50.0	53.1	106	3.70	75-125	<20	
1,1-Dichloroethene	50.0	52.2	104	50.0	51.2	102	1.94	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	53.1	106	50.0	52.1	104	1.90	75-125	<20	
Toluene (Methyl benzene)	50.0	54.2	108	50.0	52.4	105	2.82	75-125	<20	
Trichloroethene	50.0	52.5	105	50.0	50.3	101	3.88	75-125	<20	
LCS										
Chloroform (Trichloromethane)	50.0	52.5	105	50.0	49.9	100	4.88	75-125	<20	
Ethylbenzene	50.0	55.0	110	50.0	53.3	107	2.76	75-125	<20	
1,1,1-Trichloroethane	50.0	50.5	101	50.0	49.6	99.0	2.00	75-125	<20	
o-Xylene	50.0	55.0	110	50.0	53.4	107	2.76	75-125	<20	
m,p-Xylenes	100	112	112	100	109	109	2.71	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	42.5	85.0	50.0	42.9	85.7	<1	75-125	<20	
Dibromofluoromethane	50.0	46.8	93.7	50.0	47.6	95.2	1.60	75-125	<20	

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0915141A1; Dup or Spiked Sample: B0915141A1; LCS: Clean Water; QC Prepared: 09/15/2014;MS Analyzed: 09/16/2014; LCS Analyzed: 09/15/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Toluene-d8	50.0	48.6	97.2	50.0	49.9	99.7	2.57	75-125	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0911141C4; Dup or Spiked Sample: 74318.01; LCS: Clean Sand; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	5.62	10.0	14.9	92.3	10.0	15.0	93.8	1.61	75-125	<15

QC Batch No: 0911141C4; Dup or Spiked Sample: 74318.01; LCS: Clean Sand; QC Prepared: 09/11/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.970	97.1	1.00	0.970	96.7	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1; Dup or Spiked Sample: 74318.01; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.270	108	0.250	0.258	103	4.7	80-120	<20

QC Batch No: 091214-1; Dup or Spiked Sample: 74318.01; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.268	107	0.250	0.255	102	4.8	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1; Dup or Spiked Sample: 74394.02; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.273	109	0.250	0.293	117	7.1	80-120	<20

QC Batch No: 091514-1; Dup or Spiked Sample: 74394.02; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.239	95.6	0.250	0.248	99.2	3.7	80-120	<20	

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QUALITY CONTROL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

Page: **28**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74318	09/09/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1; Dup or Spiked Sample: 74318.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	6.20	6.30	1.6	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc. **301 E. Vanderbilt Way Suite 450** **San Bernardino, CA 92408-3559**

Number of Pages	**18**
Date Received	**09/10/2014**
Date Reported	**09/22/2014**

Telephone: (909)381-1674
Attention: Michael Winberger

Job Number	Order Date	Client
74329	09/10/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 12 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AECOM

74329

DATE Sept. 10-14 PAGE 1 OF 3

CLIENT: LMC
PROJECT NAME: BURBANK MAINS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signature): [signature]

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr 6+	1640	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC6-1-5	9-10-14	0140	X	X		U	S	SB	1	NR	74329.01
2.	AOC6-1-10		0145			X						74329.02
3.	AOC6-1-15		0150	X	X							74329.03
4.	AOC6-1-20		0155			X						74329.04
5.	AOC6-1-25		0200	X	X							74329.05
6.	AOC6-1-30		0216			X						74329.06
7.	AOC6-1-35		0235	X	X							74329.07
8.	AOC6-1-35-DUP		0236	X	X							74329.08
9.	AOC6-1-40		0245			X						74329.09
10.	EB-090914-A	9-9-14	2355	X	X			W	G	5	HCl	74329.10

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
D. MCALISTER	[signature]	TETRA TECH, INC.	9/10/14	830	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE: 9/10/14	TIME: 830	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE: 9/10/14	TIME: 920	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Antin	SIGNATURE	COMPANY: AECOM	DATE: 09/10/14	TIME: 0920	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

X:\GIS\ATT-MISC\COCR.CDR

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETC

74329

DATE 9-10-14 PAGE 2 OF 3

CLIENT: LMC

PROJECT NAME: BURBANK METALS

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBO-T32955

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr 6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC6-1-45	9-10-14	0246	X	X		U	S	SB	1	NR	Please report all data to MDL; 74329.11
2.	AOC6-1-50		0253			X						74329.12
3.	AOC6-1-55		0300	X	X							74329.13
4.	AOC6-1-60		0310			X						74329.14
5.	AOC6-1-65		0325	X	X							74329.15
6.	AOC6-1-70		0331			X						74329.16
7.	AOC6-1-75		0407	X	X							74329.17
8.	AOC6-1-80		0414			X						74329.18
9.	AOC6-1-~~80~~85		0421	X	X							74329.19
10.	AOC6-1-~~85~~90		0429			X						74329.20

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NR (None required); NaOH; H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
D. MARISTOR		TETRA TECH, INC.	9/10/14	830
RECEIVED BY: M Weinberger		TT	9/10/14	830
RELINQUISHED BY: M Weinberger		TT	9/10/14	920
RECEIVED BY: Artin		AETC	09/10/14	920

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10

METHOD OF SHIPMENT/SHIPMENT NO.: COURIER

Special Shipping/Handling/Storage Requirements:

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DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74329

DATE 9-10-14 PAGE 3 OF 3

CLIENT: LMC
PROJECT NAME: BURBANK MOTORS
PROJECT MANAGER: N. WEINBERGER
TC #: 100-SDO-T32953
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	1804Cr	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC6-1-95	9-10-14	0435	X	X		U	S	SB	1	NR	74329.21
2.	AOC6-1-95-DUP	9-10-14	0436	X	X		U	S	SB	1	NR	74329.22
3.												
4.	AOC6-1-100	9-10-14	0500			X	U	S	SB	1	NR	74329.23
5.												
6.												
7.												
8.												
9.												
10.												

PARAMETERS

TURN-AROUND TIME

Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 3
D. McMILSTER		TETRA TECH, INC.	9/10/14	830	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
N Weinberger		TT	9/10/14	830	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
N Weinberger		TT	9/10/14	920	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Katia		AETL	09/10/14	0920	

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COOLER RECEIPT FORM

Client Name: TetraTech

Project Name:

AETL Job Number: 74329, 74330

Date Received: 09/10/14 Received by: Antin

Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.1°C No 2: 3.2°C No 3: ____

Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify):

How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, ✓ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	✓		
11. Are the jars free of headspace?	N/A		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Winberger

Project ID: 100-SBO-T32955
Date Received 09/10/2014
Date Reported 09/22/2014

Job Number	Order Date	Client
74329	09/10/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 23 samples with the following specification on 09/10/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74329.10	EB-090914-A	09/09/2014	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/17/2014	2	Normal	mg/L
7199 ^ MG/L	09/17/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74329.01	AOC6-1-5	09/10/2014	Soil	1
74329.03	AOC6-1-15	09/10/2014	Soil	1
74329.05	AOC6-1-25	09/10/2014	Soil	1
74329.07	AOC6-1-35	09/10/2014	Soil	1
74329.08	AOC6-1-35-DUP	09/10/2014	Soil	1
74329.11	AOC6-1-45	09/10/2014	Soil	1
74329.13	AOC6-1-55	09/10/2014	Soil	1
74329.15	AOC6-1-65	09/10/2014	Soil	1
74329.17	AOC6-1-75	09/10/2014	Soil	1
74329.19	AOC6-1-85	09/10/2014	Soil	1
74329.21	AOC6-1-95	09/10/2014	Soil	1
74329.22	AOC6-1-95-DUP	09/10/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/17/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/17/2014	2	Normal	mg/Kg
ASTM-D2216	09/17/2014	2	Normal	% wt

74329.02	AOC6-1-10	09/10/2014	Soil	1
74329.04	AOC6-1-20	09/10/2014	Soil	1
74329.06	AOC6-1-30	09/10/2014	Soil	1
74329.09	AOC6-1-40	09/10/2014	Soil	1

Continued

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Ordered By

Tetra Tech, Inc. 301 E. Vanderbilt Way Suite 450 San Bernardino, CA 92408-3559	Project ID: 100-SBO-T32955 Date Received 09/10/2014 Date Reported 09/22/2014
Telephone: (909)381-1674 Attention: Michael Winberger	

Job Number	Order Date	Client
74329	09/10/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74329.12	AOC6-1-50	09/10/2014	Soil	1
74329.14	AOC6-1-60	09/10/2014	Soil	1
74329.16	AOC6-1-70	09/10/2014	Soil	1
74329.18	AOC6-1-80	09/10/2014	Soil	1
74329.20	AOC6-1-90	09/10/2014	Soil	1
74329.23	AOC6-1-100	09/10/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/17/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
Analytical non-conformances have been noted on the report.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Winberger
Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/12/2014				
Preparation Method			3050B				
Date Analyzed			09/14/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Winberger
Page: **3**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C2

Our Lab I.D.			74329.01	74329.03	74329.05	74329.07	74329.08
Client Sample I.D.			AOC6-1-5	AOC6-1-15	AOC6-1-25	AOC6-1-35	AOC6-1-35-DUP
Date Sampled			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/14/2014	09/14/2014	09/14/2014	09/14/2014	09/14/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	2.98	3.55	3.80	10.3	8.00

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
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San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Winberger
Page: **4**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C2

Our Lab I.D.			74329.11	74329.13	74329.15	74329.17	74329.19
Client Sample I.D.			AOC6-1-45	AOC6-1-55	AOC6-1-65	AOC6-1-75	AOC6-1-85
Date Sampled			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/14/2014	09/14/2014	09/14/2014	09/14/2014	09/14/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	4.03	6.11	9.72	6.29	6.48

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Winberger
Page: **5**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C2

Our Lab I.D.			74329.21	74329.22			
Client Sample I.D.			AOC6-1-95	AOC6-1-95-DUP			
Date Sampled			09/10/2014	09/10/2014			
Date Prepared			09/12/2014	09/12/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/14/2014	09/14/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.350	1.000	11.7	7.32			

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
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San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Winberger
Page: 6

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1

Our Lab I.D.			Method Blank	74329.01	74329.03	74329.05	74329.07
Client Sample I.D.				AOC6-1-5	AOC6-1-15	AOC6-1-25	AOC6-1-35
Date Sampled				09/10/2014	09/10/2014	09/10/2014	09/10/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1

Our Lab I.D.			74329.08	74329.11	74329.13	74329.15	74329.17
Client Sample I.D.			AOC6-1-35-DUP	AOC6-1-45	AOC6-1-55	AOC6-1-65	AOC6-1-75
Date Sampled			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1

Our Lab I.D.			74329.19	74329.21	74329.22		
Client Sample I.D.			AOC6-1-85	AOC6-1-95	AOC6-1-95-DUP		
Date Sampled			09/10/2014	09/10/2014	09/10/2014		
Date Prepared			09/12/2014	09/12/2014	09/12/2014		
Preparation Method			3060A	3060A	3060A		
Date Analyzed			09/12/2014	09/12/2014	09/12/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium (VI)	0.10	0.10	ND	ND	ND		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			Method Blank	74329.01	74329.03	74329.05	74329.07
Client Sample I.D.				AOC6-1-5	AOC6-1-15	AOC6-1-25	AOC6-1-35
Date Sampled				09/10/2014	09/10/2014	09/10/2014	09/10/2014
Date Prepared			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	1.80	1.70	3.40	7.90

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			74329.08	74329.11	74329.13	74329.15	74329.17
Client Sample I.D.			AOC6-1-35-DUP	AOC6-1-45	AOC6-1-55	AOC6-1-65	AOC6-1-75
Date Sampled			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Date Prepared			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	15.8	2.60	3.60	5.00	2.62

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			74329.19	74329.21	74329.22		
Client Sample I.D.			AOC6-1-85	AOC6-1-95	AOC6-1-95-DUP		
Date Sampled			09/10/2014	09/10/2014	09/10/2014		
Date Prepared			09/10/2014	09/10/2014	09/10/2014		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/10/2014	09/10/2014	09/10/2014		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	4.51	10.1	4.31		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0912141C4

Our Lab I.D.			Method Blank	**74329.10**			
Client Sample I.D.				EB-090914-A			
Date Sampled				09/09/2014			
Date Prepared			09/12/2014	09/12/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/14/2014	09/14/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091014-1

Our Lab I.D.			Method Blank	74329.10			
Client Sample I.D.				EB-090914-A			
Date Sampled				09/09/2014			
Date Prepared			09/10/2014	09/10/2014			
Preparation Method			7199	7199			
Date Analyzed			09/10/2014	09/10/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0912141C4; Dup or Spiked Sample: 74329.10; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	92.8	0.0100	0.0100	91.2	1.74	75-125	<15

QC Batch No: 0912141C4; Dup or Spiked Sample: 74329.10; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	87.9	0.0100	0.0100	90.8	3.25	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091014-1; Dup or Spiked Sample: 74312.01; LCS: Clean Water; QC Prepared: 09/10/2014; QC Analyzed: 09/10/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.768M	76.8	1.00	0.678M	67.8	12.4	80-120	<20

QC Batch No: 091014-1; Dup or Spiked Sample: 74312.01; LCS: Clean Water; QC Prepared: 09/10/2014; QC Analyzed: 09/10/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.985	98.5	1.00	1.04	104	5.4	80-120	<20	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C2; Dup or Spiked Sample: 74329.01; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	2.93	10.0	13.1	102	10.0	12.8	98.7	3.29	75-125	<15

QC Batch No: 0912141C2; Dup or Spiked Sample: 74329.01; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.970	96.6	1.00	0.850	85.3	12.4	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1; Dup or Spiked Sample: 74329.01; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.221	88.3	0.250	0.231	92.5	4.6	80-120	<20

QC Batch No: 091214-1; Dup or Spiked Sample: 74329.01; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/12/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.244	97.6	0.250	0.223	89.2	9.0	80-120	<20	

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74329	09/10/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1; Dup or Spiked Sample: 74329.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	1.80	1.30	32.3	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Number of Pages	**21**
Date Received	**09/10/2014**
Date Reported	**09/17/2014**

Job Number	Order Date	Client
74330	09/10/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 17 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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FAX: (909) 889-1391

SHIP TO: ______

CHAIN OF CUSTODY RECORD

74330

DATE 09/09/14 PAGE 1 OF 4

CLIENT: LMC

PROJECT NAME: Burbank Soils Inc

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: 100-SBO-T32955

SAMPLERS (Signatures): [signatures]

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report all data to MDL

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom (SW6020)	Hex Chrom SW7199	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC7-1-5	09/09/14	2046	X	X		U	S	SB	1	NR	74330.01
2.	AOC7-1-10	↓	2050			X	↓	↓	↓	1	↓	74330.02
3.	AOC7-1-15	↓	2057			X	↓	↓	↓	1	↓	74330.03
4.	AOC7-1-20	↓	2100	X	X		↓	↓	↓	1	↓	74330.04
5.	AOC7-1-25	↓	2103	X	X		↓	↓	↓	1	↓	74330.05
6.	AOC7-1-30	↓	2108			X	↓	↓	↓	1	↓	74330.06
7.	AOC7-1-35	↓	2110			X	↓	↓	↓	1	↓	74330.07
8.	AOC7-1-40	↓	2117	X	X		↓	↓	↓	1	↓	74330.08
9.	AOC7-1-45	↓	2122	X	X		↓	↓	↓	1	↓	74330.09
10.	AOC7-1-50	↓	2127			X	↓	↓	↓	1	↓	74330.10

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil, M - Sediment, W - Water

CONTAINER TYPE: G - Glass Bottle/Jar, SS - Stainless Steel Sleeve, SB - Brass Sleeve, P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL, NR (None required), NaOH, H_2SO_4

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY: P. Henderson	[signature]	TETRA TECH, INC.	09/10/14	830
RECEIVED BY: M Weinberger	[signature]	Tt	9/10/14	830
RELINQUISHED BY: M Weinberger	[signature]	Tt	9/10/14	920
RECEIVED BY: Artin	[signature]	AGTC	09/10/14	0920

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10

METHOD OF SHIPMENT/SHIPMENT NO.: Courier

Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74330

DATE 09/09/14 PAGE 2 OF 4

CLIENT: LMC

PROJECT NAME: LMC Burbank Soils INV.

PROJECT MANAGER: T. Henwave/M. Weinberger

TC #: 100-560-T32955

SAMPLERS (Signatures): [signature]

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrome SW6020	Hex Chrome SW7199	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC7-1-55	09/09/14	2130	X	X		U	S	SB	1	NR	Standard Please report all data to MDL 74330.11
2.	AOC7-1-71.5	09/09/14	2201	X	X					1		74330.12
3.	AOC7-1-75	09/09/14	2219	X	X					1		74330.13
4.	AOC7-1-80	09/09/14	2226			X				1		74330.14
5.	AOC7-1-85	09/09/14	2235			X				1		74330.15
6.	AOC7-1-90	09/09/14	2240	X	X					1		74330.16
7.	AOC7-1-95	09/09/14	2249			X				1		74330.17
8.	AOC7-1-100	09/09/14	2255	X	X					1		74330.18
9.	AOC7-1-105	09/09/14	2310	X	X					1		74330.19
10.	AOC7-1-110	09/09/14	2318			X	↓	↓	↓	1	↓	74330.20

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
P. Henderson	[signature]	TETRA TECH, INC.	09/10/14	830	60
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
M Weinberger	[signature]	TT	9/10/14	830	Courier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
M Weinberger	[signature]	TT	9/10/14	920	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Antin	[signature]	ACTL	09/10/14	0920	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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FAX: (909) 889-1391

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74830

DATE 09/09/14 PAGE 3 OF 4

CLIENT: LMC

PROJECT NAME: LMC Barbara Soils INV.

PROJECT MANAGER: T. Villeneuve / M. Weinberger

TC #: 100-SBO-T32955

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrome SW 6020	Hex Chrome SW 7199	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME: Standard	OBSERVATIONS/COMMENTS: Please report all data to MDL
1.	AOC7-1-115	09/09/14	2351	X	X		U	S	SB	1	NR		74330.21
2.	AOC7-1-120	09/10/14	0010			X				1			74330.22
3.	AOC7-1-125	09/10/14	0019	X	X					1			74330.23
4.	AOC7-1-130	09/10/14	0041			X				1			74330.24
5.	AOC7-1-135	09/10/14	0050			X				1			74330.25
6.	AOC7-1-140	09/10/14	0141	X	X					1			74330.26
7.	AOC7-1-145	09/10/14	0145	X	X					1			74330.27
8.	AOC7-1-150	09/10/14	0149			X				1			74330.28
9.	AOC7-1-100-DUP	09/10/14	0015	X	X					1			74330.29
10.	AOC7-1-100-DUP	09/09/14	2259	X	X		V	V	V	1	V		74330.30

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
P. Henderson		TETRA TECH, INC.	09/10/14	830	10
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY: Tt	DATE: 9/10/14	TIME: 830	METHOD OF SHIPMENT/SHIPMENT NO.: Courrier
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY: Tt	DATE: 9/10/14	TIME: 920	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Actin	SIGNATURE	COMPANY: AETC	DATE: 09/10/14	TIME: 0920	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74330

DATE 09/09/14 PAGE 4 OF 4

CLIENT: LMC

PROJECT NAME: Burbank Soils Inv

PROJECT MANAGER: Villeneuve/M Weinberger

TC #: 100-SBO-T32955

SAMPLERS (Signature): P Henderson

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrome SW6020	Hexchrome SW7196	8260B										FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	EB-090914-B	09/09/14	1900	X	X	X	MW									U	W	SB	5	NR	74330.31
2.																					
3.																					
4.																					
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
P. Henderson		TETRA TECH, INC.	09/10/14	830	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 5
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY: Tt	DATE: 9/10/14	TIME: 830	METHOD OF SHIPMENT/SHIPMENT NO.: Courier
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY: Tt	DATE: 9/10/14	TIME: 926	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Artin	SIGNATURE	COMPANY: AETL	DATE: 09/10/14	TIME: 0920	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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COOLER RECEIPT FORM

Client Name: Tetra Tech
Project Name:
AETL Job Number: 74329, 74330
Date Received: 09/10/14 Received by: Antin
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.1°C, No 2: 3.2°C, No 3:
Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
None, HNO3, NaOH, ZnOAc, HCl, Na2S2O3, MeOH
Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	✓		
11. Are the jars free of headspace?	N/A		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Project ID: 100-SBO-T32955
Date Received 09/10/2014
Date Reported 09/17/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74330	09/10/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 31 samples with the following specification on 09/10/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74330.31	EB-090914-B	09/09/2014	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/17/2014	2	Normal	mg/L
7199 ^ MG/L	09/17/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74330.01	AOC7-1-5	09/09/2014	Soil	1
74330.04	AOC7-1-20	09/09/2014	Soil	1
74330.05	AOC7-1-25	09/09/2014	Soil	1
74330.08	AOC7-1-40	09/09/2014	Soil	1
74330.09	AOC7-1-45	09/09/2014	Soil	1
74330.11	AOC7-1-55	09/09/2014	Soil	1
74330.12	AOC7-1-71.5	09/09/2014	Soil	1
74330.13	AOC7-1-75	09/09/2014	Soil	1
74330.16	AOC7-1-90	09/09/2014	Soil	1
74330.18	AOC7-1-100	09/09/2014	Soil	1
74330.19	AOC7-1-105	09/09/2014	Soil	1
74330.21	AOC7-1-115	09/09/2014	Soil	1
74330.23	AOC7-1-125	09/10/2014	Soil	1
74330.26	AOC7-1-140	09/10/2014	Soil	1
74330.27	AOC7-1-145	09/10/2014	Soil	1
74330.29	AOC7-1-120-DUP	09/10/2014	Soil	1
74330.30	AOC7-1-100-DUP	09/09/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/17/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/17/2014	2	Normal	mg/Kg
ASTM-D2216	09/17/2014	2	Normal	% wt

Continued

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Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/10/2014
Date Reported 09/17/2014

Job Number	Order Date	Client
74330	09/10/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74330.02	AOC7-1-10	09/09/2014	Soil	1
74330.03	AOC7-1-15	09/09/2014	Soil	1
74330.06	AOC7-1-30	09/09/2014	Soil	1
74330.07	AOC7-1-35	09/09/2014	Soil	1
74330.10	AOC7-1-50	09/09/2014	Soil	1
74330.14	AOC7-1-80	09/09/2014	Soil	1
74330.15	AOC7-1-85	09/09/2014	Soil	1
74330.17	AOC7-1-95	09/09/2014	Soil	1
74330.20	AOC7-1-110	09/09/2014	Soil	1
74330.22	AOC7-1-120	09/10/2014	Soil	1
74330.24	AOC7-1-130	09/10/2014	Soil	1
74330.25	AOC7-1-135	09/10/2014	Soil	1
74330.28	AOC7-1-150	09/10/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/17/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
Analytical non-conformances have been noted on the report.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/12/2014				
Preparation Method			3050B				
Date Analyzed			09/14/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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ANALYTICAL RESULTS

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **3**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C3

Our Lab I.D.			74330.01	74330.04	74330.05	74330.08	74330.09
Client Sample I.D.			AOC7-1-5	AOC7-1-20	AOC7-1-25	AOC7-1-40	AOC7-1-45
Date Sampled			09/09/2014	09/09/2014	09/09/2014	09/09/2014	09/09/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/14/2014	09/14/2014	09/14/2014	09/14/2014	09/14/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	5.29	3.22	13.2	4.22	2.72

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Attn: Michael Weinberger

Site

Burbank Metals

Page: **4**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C3

Our Lab I.D.			74330.11	74330.12	74330.13	74330.16	74330.18
Client Sample I.D.			AOC7-1-55	AOC7-1-71.5	AOC7-1-75	AOC7-1-90	AOC7-1-100
Date Sampled			09/09/2014	09/09/2014	09/09/2014	09/09/2014	09/09/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/14/2014	09/14/2014	09/14/2014	09/14/2014	09/14/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	5.60	5.31	21.2	11.3	6.92

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Page: **5**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C3

Our Lab I.D.			74330.19	74330.21	74330.23	74330.26	74330.27
Client Sample I.D.			AOC7-1-105	AOC7-1-115	AOC7-1-125	AOC7-1-140	AOC7-1-145
Date Sampled			09/09/2014	09/09/2014	09/10/2014	09/10/2014	09/10/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/14/2014	09/14/2014	09/14/2014	09/14/2014	09/14/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	7.57	2.65	16.4	9.17	2.81

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ANALYTICAL RESULTS

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: 6

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C3

Our Lab I.D.			74330.29	74330.30			
Client Sample I.D.			AOC7-1-120-DUP	AOC7-1-100-DUP			
Date Sampled			09/10/2014	09/09/2014			
Date Prepared			09/12/2014	09/12/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/14/2014	09/14/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.350	1.000	15.1	7.34			

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ANALYTICAL RESULTS

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **7**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			Method Blank	74330.01	74330.04	74330.05	74330.08
Client Sample I.D.				AOC7-1-5	AOC7-1-20	AOC7-1-25	AOC7-1-40
Date Sampled				09/09/2014	09/09/2014	09/09/2014	09/09/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			74330.09	74330.11	74330.12	74330.13	74330.16
Client Sample I.D.			AOC7-1-45	AOC7-1-55	AOC7-1-71.5	AOC7-1-75	AOC7-1-90
Date Sampled			09/09/2014	09/09/2014	09/09/2014	09/09/2014	09/09/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			74330.18	74330.19	74330.21	74330.23	74330.26
Client Sample I.D.			AOC7-1-100	AOC7-1-105	AOC7-1-115	AOC7-1-125	AOC7-1-140
Date Sampled			09/09/2014	09/09/2014	09/09/2014	09/10/2014	09/10/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			74330.27	74330.29	74330.30		
Client Sample I.D.			AOC7-1-145	AOC7-1-120-DUP	AOC7-1-100-DUP		
Date Sampled			09/10/2014	09/10/2014	09/09/2014		
Date Prepared			09/15/2014	09/15/2014	09/15/2014		
Preparation Method			3060A	3060A	3060A		
Date Analyzed			09/15/2014	09/15/2014	09/15/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium (VI)	0.10	0.10	ND	ND	ND		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			Method Blank	74330.01	74330.04	74330.05	74330.08
Client Sample I.D.				AOC7-1-5	AOC7-1-20	AOC7-1-25	AOC7-1-40
Date Sampled				09/09/2014	09/09/2014	09/09/2014	09/09/2014
Date Prepared			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	2.20	2.10	10.3	2.80

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			74330.09	74330.11	74330.12	74330.13	74330.16
Client Sample I.D.			AOC7-1-45	AOC7-1-55	AOC7-1-71.5	AOC7-1-75	AOC7-1-90
Date Sampled			09/09/2014	09/09/2014	09/09/2014	09/09/2014	09/09/2014
Date Prepared			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	4.50	2.80	2.00	2.90	4.04

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			74330.18	74330.19	74330.21	74330.23	74330.26
Client Sample I.D.			AOC7-1-100	AOC7-1-105	AOC7-1-115	AOC7-1-125	AOC7-1-140
Date Sampled			09/09/2014	09/09/2014	09/09/2014	09/10/2014	09/10/2014
Date Prepared			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	6.04	5.84	4.45	17.9	4.21

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1

Our Lab I.D.			74330.27	74330.29	74330.30		
Client Sample I.D.			AOC7-1-145	AOC7-1-120-DUP	AOC7-1-100-DUP		
Date Sampled			09/10/2014	09/10/2014	09/09/2014		
Date Prepared			09/10/2014	09/10/2014	09/10/2014		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/10/2014	09/10/2014	09/10/2014		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	3.55	7.83	4.76		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0912141C4

Our Lab I.D.			Method Blank	74330.31			
Client Sample I.D.				EB-090914-B			
Date Sampled				09/09/2014			
Date Prepared			09/12/2014	09/12/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/14/2014	09/14/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091014-1

Our Lab I.D.			Method Blank	74330.31			
Client Sample I.D.				EB-090914-B			
Date Sampled				09/09/2014			
Date Prepared			09/10/2014	09/10/2014			
Preparation Method			7199	7199			
Date Analyzed			09/10/2014	09/10/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0912141C4; Dup or Spiked Sample: 74329.10; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	92.8	0.0100	0.0100	91.2	1.74	75-125	<15

QC Batch No: 0912141C4; Dup or Spiked Sample: 74329.10; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	87.9	0.0100	0.0100	90.8	3.25	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091014-1; Dup or Spiked Sample: 74312.01; LCS: Clean Water; QC Prepared: 09/10/2014; QC Analyzed: 09/10/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.768M	76.8	1.00	0.678M	67.8	12.4	80-120	<20

QC Batch No: 091014-1; Dup or Spiked Sample: 74312.01; LCS: Clean Water; QC Prepared: 09/10/2014; QC Analyzed: 09/10/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.985	98.5	1.00	1.04	104	5.4	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C3; Dup or Spiked Sample: 74330.01; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	5.17	10.0	13.7	85.3	10.0	13.3	81.3	4.80	75-125	<15

QC Batch No: 0912141C3; Dup or Spiked Sample: 74330.01; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.950	95.3	1.00	0.950	95.4	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1; Dup or Spiked Sample: 74330.01; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.240	95.8	0.250	0.244	97.5	1.8	80-120	<20

QC Batch No: 091514-1; Dup or Spiked Sample: 74330.01; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.239	95.6	0.250	0.246	98.4	2.9	80-120	<20	

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74330	09/10/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091014-1; Dup or Spiked Sample: 74330.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	2.20	2.40	8.7	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

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301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**14**
Date Received	**09/11/2014**
Date Reported	**09/18/2014**

Job Number	Order Date	Client
74342	09/11/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 5 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AECOM

74342

DATE 9-10-14 PAGE 1 OF 1

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	EB-091014-A	9-10-14	1940	X	X		U	W	G/P	5	HNO3	74342.01
2.	AOC6-1-115		2135			X	F	S	SB	1	NR	74342.02
3.	AOC6-1-120		2145	X	X		F	S	G	1	NR	74342.03
4.	AOC6-1-120-DUP		2146	X	X		F	S	G	1	NR	74342.04
5.	AOC6-1-125		2200			X	F	S	SB	1	NR	74342.05
6.	AOC6-1-130		2210	X	X		F	S	G	1	NR	74342.06
7.	AOC 6-1-140		2220	X	X		F	S	G	1	NR	74342.07
8.	AOC 6-1-145		2240			X	F	S	SB	1	NR	74342.08
9.	AOC 6-1-150		2245	X	X		F	S	G	1	NR	74342.09
10.												

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
M Weinberger		TETRA TECH, INC.	9/11/14	1045	~~14~~ 13
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Antin		AECOM	09/11/14	1045	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

X:\GIS\ATT-MISC\COCR.CDR

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COOLER RECEIPT FORM

Client Name: TetraTech
Project Name:
AETL Job Number: 743412
Date Received: 09/11/14 Received by: Antia
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.1°C, No 2: _____, No 3: _____
Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, ☒ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	✓		
11. Are the jars free of headspace?	N/A		

Explain all "No" answers for above questions:

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Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/11/2014
Date Reported 09/18/2014

Job Number	Order Date	Client
74342	09/11/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 9 samples with the following specification on 09/11/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74342.01	EB-091014-A	09/10/2014	Aqueous	5

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/18/2014	2	Normal	mg/L
7199 ^ MG/L	09/18/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74342.02	AOC6-1-115	09/10/2014	Soil	1
74342.05	AOC6-1-125	09/10/2014	Soil	1
74342.08	AOC6-1-145	09/10/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/18/2014	2	Normal	--

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74342.03	AOC6-1-120	09/10/2014	Soil	1
74342.04	AOC6-1-120-DUP	09/10/2014	Soil	1
74342.06	AOC6-1-130	09/10/2014	Soil	1
74342.07	AOC6-1-140	09/10/2014	Soil	1
74342.09	AOC6-1-150	09/10/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/18/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/18/2014	2	Normal	mg/Kg
ASTM-D2216	09/18/2014	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0912141C4

Our Lab I.D.			Method Blank	**74342.01**			
Client Sample I.D.				EB-091014-A			
Date Sampled				09/10/2014			
Date Prepared			09/12/2014	09/12/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/14/2014	09/14/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Page: **3**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091114-1

Our Lab I.D.			Method Blank	74342.01			
Client Sample I.D.				EB-091014-A			
Date Sampled				09/10/2014			
Date Prepared			09/11/2014	09/11/2014			
Preparation Method			7199	7199			
Date Analyzed			09/11/2014	09/11/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/12/2014				
Preparation Method			3050B				
Date Analyzed			09/14/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C2

Our Lab I.D.			74342.03	74342.04	74342.06	74342.07	74342.09
Client Sample I.D.			AOC6-1-120	AOC6-1-120-DUP	AOC6-1-130	AOC6-1-140	AOC6-1-150
Date Sampled			09/10/2014	09/10/2014	09/10/2014	09/10/2014	09/10/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/14/2014	09/14/2014	09/14/2014	09/14/2014	09/14/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	6.27	6.58	13.7	6.30	3.06

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1

Our Lab I.D.			Method Blank	74342.03	74342.04	74342.06	74342.07
Client Sample I.D.				AOC6-1-120	AOC6-1-120-DUP	AOC6-1-130	AOC6-1-140
Date Sampled				09/10/2014	09/10/2014	09/10/2014	09/10/2014
Date Prepared			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1

Our Lab I.D.			**74342.09**				
Client Sample I.D.			AOC6-1-150				
Date Sampled			09/10/2014				
Date Prepared			09/16/2014				
Preparation Method			3060A				
Date Analyzed			09/16/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (VI)	0.10	0.10	ND				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091114-1

Our Lab I.D.			Method Blank	74342.03	74342.04	74342.06	74342.07
Client Sample I.D.				AOC6-1-120	AOC6-1-120-DUP	AOC6-1-130	AOC6-1-140
Date Sampled				09/10/2014	09/10/2014	09/10/2014	09/10/2014
Date Prepared			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	4.60	4.40	11.9	4.10

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091114-1

Our Lab I.D.			74342.09				
Client Sample I.D.			AOC6-1-150				
Date Sampled			09/10/2014				
Date Prepared			09/11/2014				
Preparation Method			ASTM-D2216				
Date Analyzed			09/11/2014				
Matrix			Soil				
Units			% wt				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Moisture Content	0.1	0.1	4.00				

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QUALITY CONTROL RESULTS

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Page: **10**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0912141C4; Dup or Spiked Sample: 74329.10; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	92.8	0.0100	0.0100	91.2	1.74	75-125	<15

QC Batch No: 0912141C4; Dup or Spiked Sample: 74329.10; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	87.9	0.0100	0.0100	90.8	3.25	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091114-1; Dup or Spiked Sample: 74342.01; LCS: Clean Water; QC Prepared: 09/11/2014; QC Analyzed: 09/11/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.869	86.9	1.00	0.825	82.5	5.2	80-120	<20

QC Batch No: 091114-1; Dup or Spiked Sample: 74342.01; LCS: Clean Water; QC Prepared: 09/11/2014; QC Analyzed: 09/11/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.931	93.1	1.00	1.05	105	12.0	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0912141C2; Dup or Spiked Sample: 74329.01; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	2.93	10.0	13.1	102	10.0	12.8	98.7	3.29	75-125	<15

QC Batch No: 0912141C2; Dup or Spiked Sample: 74329.01; LCS: Clean Sand; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.970	96.6	1.00	0.850	85.3	12.4	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1; Dup or Spiked Sample: 74342.03; LCS: Clean Sand; QC Prepared: 09/16/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.246	98.3	0.250	0.255	102	3.7	80-120	<20

QC Batch No: 091614-1; Dup or Spiked Sample: 74342.03; LCS: Clean Sand; QC Prepared: 09/16/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.244	97.6	0.250	0.229	91.6	6.3	80-120	<20	

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QUALITY CONTROL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

Page: **14**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74342	09/11/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091114-1; Dup or Spiked Sample: 74342.03; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	4.60	4.80	4.3	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Number of Pages	**18**
Date Received	**09/11/2014**
Date Reported	**09/18/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74349	09/11/2014	T/TSB2

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 13 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74349

CHAIN OF CUSTODY RECORD

DATE 09/11/14 PAGE 1 OF 2

CLIENT: LMC
PROJECT NAME: Burbank Soils Inv
PROJECT MANAGER: T. Villeneuve/M. Weinberger
TC #: 100-SBO-T32955
SAMPLERS (Signature): [signature]

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom SW6020	Hex Chrom SW7199	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC13-1-5	09/11/14				X	U	S	SB	1	NR	74349.01
2.	AOC13-1-10			X	X					1		74349.02
3.	AOC13-1-15					X				1		74349.03
4.	AOC13-1-20			X	X					1		74349.04
5.	AOC13-1-25			X	X					1		74349.05
6.	AOC13-1-30					X				1		74349.06
7.	AOC13-1-35			X	X					1		74349.07
8.	AOC13-1-50					X		↓	↓	1		74349.08
9.	EB-091114-B			X	X			W	P	2		74349.09
10.	AOC13-1-100-DUP	↓		X	X		↓	S	SB	1		74349.10

Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SB - Brass Sleeve
SS - Stainless Steel Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY: Vanessa Calder	SIGNATURE: [signature]	TETRA TECH, INC.	DATE: 9/11/14	TIME: 1638	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 11
RECEIVED BY: Sangis-P	SIGNATURE: [signature]	COMPANY: AETL	DATE: 9/11/14	TIME: 1638	METHOD OF SHIPMENT/SHIPMENT NO.: Courrier
RELINQUISHED BY: Sangis-P	SIGNATURE: [signature]	COMPANY: AETL	DATE: 9/11/14	TIME: 1715	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Lande	SIGNATURE: [signature]	COMPANY: AETL	DATE: 9/11/14	TIME: 1715	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO:

CHAIN OF CUSTODY RECORD

74349

DATE 09/11/14 PAGE 2 OF 2

CLIENT: LMC
PROJECT NAME: Burbank Soils INV.
PROJECT MANAGER: V. Villeneuve M. Weinberger
TC #: 100-SBO-T-32985
SAMPLERS (Signatures): [signatures]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrome 6010B	Hex Chrome SW 7199	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	ADC13-1-55	09/11/14		X	X		U	S	SB	1	NR	74349.11
2.	ADC13-1-60	09/11/14		X	X		↓	↓	↓	1	↓	74349.12
3.	ADC13-1-65	09/11/14				X	↓	↓	↓	1	↓	74349.13
4.	ADC13-1-70	09/11/14				X	↓	↓	↓	1	↓	74349.14
5.	ADC13-1-75	09/11/14		X	X		↓	↓	↓	1	↓	74349.15
6.	ADC13-1-80	09/11/14		X	X		↓	↓	↓	1	↓	74349.16
7.	ADC13-1-85	09/11/14				X	↓	↓	↓	1	↓	74349.17
8.	ADC13-1-90	09/11/14		X	X		↓	↓	↓	1	↓	74349.18
9.	ADC13-1-95	09/11/14				X	↓	↓	↓	1	↓	74349.19
10.	ADC13-1-100	09/11/14		X	X		↓	↓	↓	1	↓	74349.20

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY: Vanessa Calder	[signature]	TETRA TECH, INC.	9/11/14	1638
RECEIVED BY: Sargis S.	[signature]	AETL	9/11/14	1638
RELINQUISHED BY: Sargis S.	[signature]	AETL	9/11/14	1715
RECEIVED BY: Jean Claude	[signature]	AETL	09/11/14	1715

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
METHOD OF SHIPMENT/SHIPMENT NO. Courier
Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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COOLER RECEIPT FORM

Client Name: Tetra Tech

Project Name: LMC

AETL Job Number: 74349

Date Received: 09/11/14 Received by: Jean Claude

Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.3°C, No 2: _____, No 3: _____

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): Brass sleeves

How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
☒ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	✓		

Explain all "No" answers for above questions:

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Ordered By

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301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBA-T32955
Date Received 09/11/2014
Date Reported 09/18/2014

Job Number	Order Date	Client
74349	09/11/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 20 samples with the following specification on 09/11/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74349.09	EB-091114-B	09/11/2014	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/18/2014	2	Normal	mg/L
7199 ^ MG/L	09/18/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74349.01	AOC13-1-5	09/11/2014	Soil	1
74349.03	AOC13-1-15	09/11/2014	Soil	1
74349.06	AOC13-1-30	09/11/2014	Soil	1
74349.08	AOC13-1-50	09/11/2014	Soil	1
74349.13	AOC13-1-65	09/11/2014	Soil	1
74349.14	AOC13-1-70	09/11/2014	Soil	1
74349.17	AOC13-1-85	09/11/2014	Soil	1
74349.19	AOC13-1-95	09/11/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/18/2014	2	Normal	--

74349.02	AOC13-1-10	09/11/2014	Soil	1
74349.04	AOC13-1-20	09/11/2014	Soil	1
74349.05	AOC13-1-25	09/11/2014	Soil	1
74349.07	AOC13-1-35	09/11/2014	Soil	1
74349.10	AOC13-1-100-DUP	09/11/2014	Soil	1
74349.11	AOC13-1-55	09/11/2014	Soil	1
74349.12	AOC13-1-60	09/11/2014	Soil	1
74349.15	AOC13-1-75	09/11/2014	Soil	1
74349.16	AOC13-1-80	09/11/2014	Soil	1
74349.18	AOC13-1-90	09/11/2014	Soil	1

Continued

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Attention: Michael Weinberger

Project ID: 100-SBA-T32955
Date Received 09/11/2014
Date Reported 09/18/2014

Job Number	Order Date	Client
74349	09/11/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74349.20 AOC13-1-100 09/11/2014 Soil 1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/18/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/18/2014	2	Normal	mg/Kg
ASTM-D2216	09/18/2014	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Page: **2**

Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C12

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/15/2014				
Preparation Method			3050B				
Date Analyzed			09/16/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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ANALYTICAL RESULTS

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Page: **3**

Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C12

Our Lab I.D.			74349.02	74349.04	74349.05	74349.07	74349.10
Client Sample I.D.			AOC13-1-10	AOC13-1-20	AOC13-1-25	AOC13-1-35	AOC13-1-100 -DUP
Date Sampled			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	9.73	5.21	5.27	3.98	8.52

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Page: **4**

Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C12

Our Lab I.D.			74349.11	74349.12	74349.15	74349.16	74349.18
Client Sample I.D.			AOC13-1-55	AOC13-1-60	AOC13-1-75	AOC13-1-80	AOC13-1-90
Date Sampled			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	3.26	4.70	4.07	28.1	4.44

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Page: **5**

Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C12

Our Lab I.D.			74349.20				
Client Sample I.D.			AOC13-1-100				
Date Sampled			09/11/2014				
Date Prepared			09/15/2014				
Preparation Method			3050B				
Date Analyzed			09/16/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	15.2				

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Page: 6

Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			Method Blank	74349.02	74349.04	74349.05	74349.07
Client Sample I.D.				AOC13-1-10	AOC13-1-20	AOC13-1-25	AOC13-1-35
Date Sampled				09/11/2014	09/11/2014	09/11/2014	09/11/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	0.645	0.530	ND

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ANALYTICAL RESULTS

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Attn: Michael Weinberger
Page: **7**

Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			74349.10	74349.11	74349.12	74349.15	74349.16
Client Sample I.D.			AOC13-1-100-DUP	AOC13-1-55	AOC13-1-60	AOC13-1-75	AOC13-1-80
Date Sampled			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			74349.18	74349.20			
Client Sample I.D.			AOC13-1-90	AOC13-1-100			
Date Sampled			09/11/2014	09/11/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			3060A	3060A			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.10	0.10	ND	ND			

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Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091214-1

Our Lab I.D.			Method Blank	74349.02	74349.04	74349.05	74349.07
Client Sample I.D.				AOC13-1-10	AOC13-1-20	AOC13-1-25	AOC13-1-35
Date Sampled				09/11/2014	09/11/2014	09/11/2014	09/11/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	5.10	6.30	4.10	3.30

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Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091214-1

Our Lab I.D.			74349.10	74349.11	74349.12	74349.15	74349.16
Client Sample I.D.			AOC13-1-100-DUP	AOC13-1-55	AOC13-1-60	AOC13-1-75	AOC13-1-80
Date Sampled			09/11/2014	09/11/2014	09/11/2014	09/11/2014	09/11/2014
Date Prepared			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	4.00	2.60	5.60	3.20	3.18

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Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091214-1

Our Lab I.D.			74349.18	74349.20			
Client Sample I.D.			AOC13-1-90	AOC13-1-100			
Date Sampled			09/11/2014	09/11/2014			
Date Prepared			09/12/2014	09/12/2014			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			09/12/2014	09/12/2014			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	6.46	3.82			

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Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0912141C2

Our Lab I.D.			Method Blank	74349.09			
Client Sample I.D.				EB-091114-B			
Date Sampled				09/11/2014			
Date Prepared			09/12/2014	09/12/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/14/2014	09/14/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1

Our Lab I.D.			Method Blank	74349.09			
Client Sample I.D.				EB-091114-B			
Date Sampled				09/11/2014			
Date Prepared			09/12/2014	09/12/2014			
Preparation Method			7199	7199			
Date Analyzed			09/12/2014	09/12/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0912141C2; Dup or Spiked Sample: 74329.10; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	92.8	0.0100	0.0100	91.2	1.74	75-125	<15

QC Batch No: 0912141C2; Dup or Spiked Sample: 74329.10; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	87.9	0.0100	0.0100	90.8	3.25	75-125	<15	

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Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091214-1; Dup or Spiked Sample: 74349.09; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/12/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.986	98.6	1.00	1.04	104	5.3	80-120	<20

QC Batch No: 091214-1; Dup or Spiked Sample: 74349.09; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/12/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	1.06	106	1.00	1.06	106	<1	80-120	<20	

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Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C12; Dup or Spiked Sample: 74349.02; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	9.23	10.0	17.8	85.7	10.0	17.7	84.7	1.17	75-125	<15

QC Batch No: 0915141C12; Dup or Spiked Sample: 74349.02; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.890	89.4	1.00	0.900	90.2	<1	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1; Dup or Spiked Sample: 74349.02; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.273	109	0.250	0.293	117	7.1	80-120	<20

QC Batch No: 091514-1; Dup or Spiked Sample: 74349.02; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.239	95.6	0.250	0.248	99.2	3.7	80-120	<20	

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Burbank Metals

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Project ID: 100-SBA-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74349	09/11/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091214-1; Dup or Spiked Sample: 74349.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	5.10	4.80	6.1	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Attention: Michael Weinberger

Number of Pages	**14**
Date Received	**09/12/2014**
Date Reported	**09/22/2014**

Job Number	Order Date	Client
74366	09/12/2014	T/TSB2

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 11 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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301 E. Vanderbilt Way, Suite 450
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Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

CHAIN OF CUSTODY RECORD

74366

DATE 09/12/14 PAGE 1 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Inv

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: T32955

SAMPLERS (Signature): _____

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrome SW6020	Hex Chrome SW7199	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE
1.	AOC16-1-5	09/12/14	1157	X	X		U	S	SB	1	NR
2.	AOC16-1-10		1200			X				1	
3.	AOC16-1-15		1203	X	X					1	
4.	AOC16-1-20		1207			X				1	
5.	AOC16-1-25		1210	X	X					1	
6.	AOC16-1-30		1215			X				1	
7.	AOC16-1-35		1218	X	X					1	
8.	AOC16-1-40		1222			X				1	
9.	AOC16-1-45		1226	X	X					1	
10.	AOC16-1-50		1230			X				1	

PARAMETERS

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
P. Henderson		TETRA TECH, INC.	09/12/14	1400
RECEIVED BY: Artin	SIGNATURE	COMPANY: AETC	DATE: 09/12/14	TIME: 1400
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10

METHOD OF SHIPMENT/SHIPMENT NO.: Courrier

Special Shipping/Handling/Storage Requirements:

X:\GIS\ATT-MISC\COCR.CDR

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

CHAIN OF CUSTODY RECORD

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San Bernardino, California 92408
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FAX: (909) 889-1391

SHIP TO: _____

74366

DATE 09/12/14 PAGE 1 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soils Inv
PROJECT MANAGER: T. Villeneuve/M. Weinberger
TC #: T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chromium SW6020	Hex Chromium SW7199	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME: Standard
1.	AOC16-1-55	09/12/14	1235	X	X		U	S	SB	1	NR	74366.11
2.	AOC16-1-60		1241			X				1		74366.12
3.	AOC16-1-65		1246	X	X					1		74366.13
4.	AOC16-1-70		1251			X				1		74366.14
5.	AOC16-1-75		1257			X				1		74366.15
6.	AOC16-1-80		1300	X	X					1		74366.16
7.	AOC16-1-85		1305	X	X					1		74366.17
8.	AOC16-1-90		1310			X				1		74366.18
9.	AOC16-1-95		1315			X				1		74366.19
10.	AOC16-1-100	↓	1319	X	X		↓	↓	↓	1	↓	74366.20

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
P. Henderson		TETRA TECH, INC.	09/12/14	1400	10
RECEIVED BY: Artin	SIGNATURE	COMPANY: ACTL	DATE: 09/12/14	TIME: 1400	METHOD OF SHIPMENT/SHIPMENT NO.: Courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

X:\GIS\ATT-MISC\COCR.CDR

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74366

DATE 09/12/14 PAGE 3 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Inv

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: T32955

SAMPLERS (Signatures)

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom SW6020	HEx Chrome SW7199	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE
1.	AOC16-1-100-DUP	09/12/14	1320	X	X		U	S	SB	1	NR
2.											
3.											
4.											
5.											
6.											
7.											
8.											
9.											
10.											

TURN-AROUND TIME
Standard

OBSERVATIONS/COMMENTS
Please report all data to MDL

74366.21

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
P. Henderson		TETRA TECH, INC.	09/12/14	1400	1
RECEIVED BY: Artin	SIGNATURE	COMPANY: ABTL	DATE: 09/12/14	TIME: 1400	METHOD OF SHIPMENT/SHIPMENT NO.: Courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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COOLER RECEIPT FORM

Client Name: Tetra Tech
Project Name:
AETL Job Number: 74366, 74367, & 74368
Date Received: 09/12/14 Received by: Antia
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.1°C, No 2: 3.2°C, No 3:
Type of sample containers: ☒ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, ☒ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below:	Name, if client was notified
1. Are the COCs Correct?	☒		
2. Are the Sample labels legible?	☒		
3. Do samples match the COC?	☒		
4. Are the required analyses clear?	☒		
5. Is there enough samples for required analysis?	☒		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	☒		
8. Are samples preserved?	☒		
9. Are samples preserved properly for the intended analysis?	☒		
10. Are the VOAs free of headspace?	☒		
11. Are the jars free of headspace?	N/A		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955.TM
Date Received 09/12/2014
Date Reported 09/22/2014

Job Number	Order Date	Client
74366	09/12/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 21 samples with the following specification on 09/12/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74366.01	AOC16-1-5	09/12/2014	Soil	1
74366.03	AOC16-1-15	09/12/2014	Soil	1
74366.05	AOC16-1-25	09/12/2014	Soil	1
74366.07	AOC16-1-35	09/12/2014	Soil	1
74366.09	AOC16-1-45	09/12/2014	Soil	1
74366.11	AOC16-1-55	09/12/2014	Soil	1
74366.13	AOC16-1-65	09/12/2014	Soil	1
74366.16	AOC16-1-80	09/12/2014	Soil	1
74366.17	AOC16-1-85	09/12/2014	Soil	1
74366.20	AOC16-1-100	09/12/2014	Soil	1
74366.21	AOC16-1-100-DUP	09/12/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/19/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/19/2014	2	Normal	mg/Kg
ASTM-D2216	09/19/2014	2	Normal	% wt

74366.02	AOC16-1-10	09/12/2014	Soil	1
74366.04	AOC16-1-20	09/12/2014	Soil	1
74366.06	AOC16-1-30	09/12/2014	Soil	1
74366.08	AOC16-1-40	09/12/2014	Soil	1
74366.10	AOC16-1-50	09/12/2014	Soil	1
74366.12	AOC16-1-60	09/12/2014	Soil	1
74366.14	AOC16-1-70	09/12/2014	Soil	1
74366.15	AOC16-1-75	09/12/2014	Soil	1
74366.18	AOC16-1-90	09/12/2014	Soil	1
74366.19	AOC16-1-95	09/12/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units

Continued

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Attention: Michael Weinberger

Project ID: 100-SBO-T32955.TM
Date Received 09/12/2014
Date Reported 09/22/2014

Job Number	Order Date	Client
74366	09/12/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74366.19	AOC16-1-95	09/12/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/19/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C9

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/15/2014				
Preparation Method			3050B				
Date Analyzed			09/16/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C9

Our Lab I.D.			74366.01	74366.03	74366.05	74366.07	74366.09
Client Sample I.D.			AOC16-1-5	AOC16-1-15	AOC16-1-25	AOC16-1-35	AOC16-1-45
Date Sampled			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	9.62	2.92	4.57	4.29	3.94

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C9

Our Lab I.D.			74366.11	74366.13	74366.16	74366.17	74366.20
Client Sample I.D.			AOC16-1-55	AOC16-1-65	AOC16-1-80	AOC16-1-85	AOC16-1-100
Date Sampled			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	3.23	4.64	3.90	7.85	23.9

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C9

Our Lab I.D.			74366.21				
Client Sample I.D.			AOC16-1-100 -DUP				
Date Sampled			09/12/2014				
Date Prepared			09/15/2014				
Preparation Method			3050B				
Date Analyzed			09/16/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	10.9				

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1

Our Lab I.D.			Method Blank	74366.01	74366.03	74366.05	74366.07
Client Sample I.D.				AOC16-1-5	AOC16-1-15	AOC16-1-25	AOC16-1-35
Date Sampled				09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1

Our Lab I.D.			74366.09	74366.11	74366.13	74366.16	74366.17
Client Sample I.D.			AOC16-1-45	AOC16-1-55	AOC16-1-65	AOC16-1-80	AOC16-1-85
Date Sampled			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Site

Burbank Metals

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Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1

Our Lab I.D.			74366.20	74366.21			
Client Sample I.D.			AOC16-1-100	AOC16-1-100 -DUP			
Date Sampled			09/12/2014	09/12/2014			
Date Prepared			09/16/2014	09/16/2014			
Preparation Method			3060A	3060A			
Date Analyzed			09/16/2014	09/16/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.10	0.10	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091514-1

Our Lab I.D.			Method Blank	74366.01	74366.03	74366.05	74366.07
Client Sample I.D.				AOC16-1-5	AOC16-1-15	AOC16-1-25	AOC16-1-35
Date Sampled				09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	4.20	2.80	2.90	3.50

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091514-1

Our Lab I.D.			74366.09	74366.11	74366.13	74366.16	74366.17
Client Sample I.D.			AOC16-1-45	AOC16-1-55	AOC16-1-65	AOC16-1-80	AOC16-1-85
Date Sampled			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	3.90	3.20	2.40	3.40	3.80

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091514-1

Our Lab I.D.			74366.20	74366.21			
Client Sample I.D.			AOC16-1-100	AOC16-1-100 -DUP			
Date Sampled			09/12/2014	09/12/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	4.44	3.88			

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QUALITY CONTROL RESULTS

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C9; Dup or Spiked Sample: 74366.01; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	9.22	10.0	18.6	93.8	10.0	19.0	97.8	4.18	75-125	<15

QC Batch No: 0915141C9; Dup or Spiked Sample: 74366.01; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.960	96.3	1.00	0.920	92.3	4.24	75-125	<15	

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QUALITY CONTROL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

Page: **13**

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1; Dup or Spiked Sample: 74366.01; LCS: Clean Sand; QC Prepared: 09/16/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.278	111	0.250	0.201	80.5	31.9	80-120	<20

QC Batch No: 091614-1; Dup or Spiked Sample: 74366.01; LCS: Clean Sand; QC Prepared: 09/16/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.244	97.6	0.250	0.229	91.6	6.3	80-120	<20	

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Attn: Michael Weinberger

Site

Burbank Metals

Page: **14**

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74366	09/12/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091514-1; Dup or Spiked Sample: 74366.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	4.20	4.00	4.9	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Number of Pages	**18**
Date Received	**09/12/2014**
Date Reported	**09/22/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74367	09/12/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 12 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

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CHAIN OF CUSTODY RECORD

74367

DATE Sept. 12, 2014 PAGE 1 OF 3

CLIENT: LMC

PROJECT NAME: BURBANK MOTORS

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBO-T32953

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr,6r	Hold	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	EB-091214-A	9-12-14	0900	X	X		U	W	P	2	NR	74367-01
2.	AOC16-2-5		0904	X	X			S	SB	1	NR	74367-02
3.	AOC16-2-10		0910			X			SB			74367-03
4.	AOC16-2-15		0915	X	X				G			74367-04
5.	AOC16-2-15-DUP		0916	X	X				G			74367-05
6.	AOC16-2-20		0920			X			SB			74367-06
7.	AOC16-2-25		0925	X	X							74367-07
8.	AOC16-2-30		0930			X						74367-08
9.	AOC16-2-35		0935	X	X							74367-09
10.	AOC16-2-40		0940			X						74367-10

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SB - Brass Sleeve
SS - Stainless Steel Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
D. McALISTER		TETRA TECH, INC.	9-12-14	1400	11
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
[illegible]		AETL	09/12/14	1400	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

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FAX: (909) 889-1391

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74367

DATE 9-12-14 PAGE 2 OF 3

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC16-2-45	9-12-14	0945	X	X		U	S	SB	1	NR	74367.11
2.	AOC16-2-50		1000			X			SB			74367.12
3.	AOC16-2-55		1005	X	X				SB			74367.13
4.	AOC16-2-60		1010			X			SB			74367.14
5.	AOC16-2-65		1015	X	X				G			74367.15
6.	AOC16-2-65-DUP		1016	X	X				G			74367.16
7.	AOC16-2-70		1020			X			SB			74367.17
8.	AOC16-2-75		1035	X	X				SB			74367.18
9.	AOC16-2-80		1045			X			SB			74367.19
10.	AOC16-2-85		1050	X	X				SB			74367.20

Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
D. McALISTER		TETRA TECH, INC.	9-12-14	1400	10
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Antin		AETL	09/12/14	1400	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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74367

DATE 9-12-14 PAGE 3 OF 3

CLIENT: CMC

PROJECT NAME: BURBANK ~~SOILS~~ METALS

PROJECT MANAGER: M. WEINBERGER

TC #: 100-580-T32955

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC16-2-100	9-12-14	1110	X	X		V	S	G	1	NR	74367.21
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 1
J. MCALISTER		TETRA TECH, INC.	9-12-14	1400	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Austin		AETL	09/12/14	1400	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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COOLER RECEIPT FORM

Client Name: Tetra Tech
Project Name:
AETL Job Number: 74366, 74367, & 74368
Date Received: 09/12/14 Received by: Artin
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.1°C, No 2: 3.2°C, No 3:
Type of sample containers: ☒ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, X HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	X		
2. Are the Sample labels legible?	X		
3. Do samples match the COC?	X		
4. Are the required analyses clear?	X		
5. Is there enough samples for required analysis?	X		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	X		
8. Are samples preserved?	X		
9. Are samples preserved properly for the intended analysis?	X		
10. Are the VOAs free of headspace?	X		
11. Are the jars free of headspace?	N/A		

Explain all "No" answers for above questions:

The Sample in EB-091214-A containers was very limited + Almost 50 ml in each container.

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/12/2014
Date Reported 09/22/2014

Job Number	Order Date	Client
74367	09/12/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 21 samples with the following specification on 09/12/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74367.01	EB-091214-A	09/12/2014	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/19/2014	2	Normal	mg/L
7199 ^ MG/L	09/19/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74367.02	AOC16-2-5	09/12/2014	Soil	1
74367.04	AOC16-2-15	09/12/2014	Soil	1
74367.05	AOC16-2-15-DUP	09/12/2014	Soil	1
74367.07	AOC16-2-25	09/12/2014	Soil	1
74367.09	AOC16-2-35	09/12/2014	Soil	1
74367.11	AOC16-2-45	09/12/2014	Soil	1
74367.13	AOC16-2-55	09/12/2014	Soil	1
74367.15	AOC16-2-65	09/12/2014	Soil	1
74367.16	AOC16-2-65-DUP	09/12/2014	Soil	1
74367.18	AOC16-2-75	09/12/2014	Soil	1
74367.20	AOC16-2-85	09/12/2014	Soil	1
74367.21	AOC16-2-100	09/12/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/19/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/19/2014	2	Normal	mg/Kg
ASTM-D2216	09/19/2014	2	Normal	% wt

74367.03	AOC16-2-10	09/12/2014	Soil	1
74367.06	AOC16-2-20	09/12/2014	Soil	1
74367.08	AOC16-2-30	09/12/2014	Soil	1
74367.10	AOC16-2-40	09/12/2014	Soil	1

Continued

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Tetra Tech, Inc. 301 E. Vanderbilt Way Suite 450 San Bernardino, CA 92408-3559	Project ID: 100-SBO-T32955 Date Received 09/12/2014 Date Reported 09/22/2014
Telephone: (909)381-1674 Attention: Michael Weinberger	

Job Number	Order Date	Client
74367	09/12/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74367.12	AOC16-2-50	09/12/2014	Soil	1
74367.14	AOC16-2-60	09/12/2014	Soil	1
74367.17	AOC16-2-70	09/12/2014	Soil	1
74367.19	AOC16-2-80	09/12/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/19/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

The holding time of sample 74367.01 (EB-091214-A) was extended to 28 days by addition of ammonium sulfate buffer solution.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

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301 E. Vanderbilt Way
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San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0912141C2

Our Lab I.D.			Method Blank	**74367.01**			
Client Sample I.D.				EB-091214-A			
Date Sampled				09/12/2014			
Date Prepared			09/12/2014	09/12/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/14/2014	09/14/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Page: **3**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			Method Blank	**74367.01**			
Client Sample I.D.				EB-091214-A			
Date Sampled				09/12/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			7199	7199			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Attn: Michael Weinberger
Page: **4**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C10

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/15/2014				
Preparation Method			3050B				
Date Analyzed			09/16/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Attn: Michael Weinberger
Page: **5**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C10

Our Lab I.D.			74367.02	74367.04	74367.05	74367.07	74367.09
Client Sample I.D.			AOC16-2-5	AOC16-2-15	AOC16-2-15-DUP	AOC16-2-25	AOC16-2-35
Date Sampled			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	7.94	5.41	4.82	3.01	3.44

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C10

Our Lab I.D.			74367.11	74367.13	74367.15	74367.16	74367.18
Client Sample I.D.			AOC16-2-45	AOC16-2-55	AOC16-2-65	AOC16-2-65-DUP	AOC16-2-75
Date Sampled			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	11.6	11.3	3.82	4.20	3.79

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C10

Our Lab I.D.			74367.20	74367.21			
Client Sample I.D.			AOC16-2-85	AOC16-2-100			
Date Sampled			09/12/2014	09/12/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/16/2014	09/16/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.350	1.000	4.61	7.67			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1

Our Lab I.D.			Method Blank	74367.02	74367.04	74367.05	74367.07
Client Sample I.D.				AOC16-2-5	AOC16-2-15	AOC16-2-15-DUP	AOC16-2-25
Date Sampled				09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1

Our Lab I.D.			74367.09	74367.11	74367.13	74367.15	74367.16
Client Sample I.D.			AOC16-2-35	AOC16-2-45	AOC16-2-55	AOC16-2-65	AOC16-2-65-DUP
Date Sampled			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1

Our Lab I.D.			74367.18	74367.20	74367.21		
Client Sample I.D.			AOC16-2-75	AOC16-2-85	AOC16-2-100		
Date Sampled			09/12/2014	09/12/2014	09/12/2014		
Date Prepared			09/16/2014	09/16/2014	09/16/2014		
Preparation Method			3060A	3060A	3060A		
Date Analyzed			09/16/2014	09/16/2014	09/16/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium (VI)	0.10	0.10	ND	ND	ND		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091514-2

Our Lab I.D.			Method Blank	74367.02	74367.04	74367.05	74367.07
Client Sample I.D.				AOC16-2-5	AOC16-2-15	AOC16-2-15-DUP	AOC16-2-25
Date Sampled				09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	3.70	3.10	3.60	2.60

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091514-2

Our Lab I.D.			74367.09	74367.11	74367.13	74367.15	74367.16
Client Sample I.D.			AOC16-2-35	AOC16-2-45	AOC16-2-55	AOC16-2-65	AOC16-2-65-DUP
Date Sampled			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	4.00	8.70	8.50	3.20	3.28

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091514-2

Our Lab I.D.			74367.18	74367.20	74367.21		
Client Sample I.D.			AOC16-2-75	AOC16-2-85	AOC16-2-100		
Date Sampled			09/12/2014	09/12/2014	09/12/2014		
Date Prepared			09/15/2014	09/15/2014	09/15/2014		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/15/2014	09/15/2014	09/15/2014		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	3.44	3.46	3.26		

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0912141C2; Dup or Spiked Sample: 74329.10; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	92.8	0.0100	0.0100	91.2	1.74	75-125	<15

QC Batch No: 0912141C2; Dup or Spiked Sample: 74329.10; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	87.9	0.0100	0.0100	90.8	3.25	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1; Dup or Spiked Sample: 74368.21; LCS: Clean Water; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	1.16	116	1.00	0.946	94.6	20.3	80-120	<20

QC Batch No: 091514-1; Dup or Spiked Sample: 74368.21; LCS: Clean Water; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	1.12	112	1.00	1.16	116	3.5	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C10; Dup or Spiked Sample: 74367.02; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	7.65	10.0	17.6	99.5	10.0	16.5	88.5	11.7	75-125	<15

QC Batch No: 0915141C10; Dup or Spiked Sample: 74367.02; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.960	95.9	1.00	0.920	91.6	4.59	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1; Dup or Spiked Sample: 74367.02; LCS: Clean Sand; QC Prepared: 09/16/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.288	115	0.250	0.305M	122	5.9	80-120	<20

QC Batch No: 091614-1; Dup or Spiked Sample: 74367.02; LCS: Clean Sand; QC Prepared: 09/16/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.253	101	0.250	0.270	108	6.7	80-120	<20	

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74367	09/12/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091514-2; Dup or Spiked Sample: 74367.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	3.70	4.00	7.8	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Number of Pages	**18**
Date Received	**09/12/2014**
Date Reported	**09/22/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74368	09/12/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 11 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHAIN OF CUSTODY RECORD

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74368

DATE 09/12/14 PAGE 1 OF 3

CLIENT: LMC

PROJECT NAME: LMC Burbank Soils INV.

PROJECT MANAGER: P. Henderson, M. Weinberger

TC #: 100-580-

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrome SW 6020	Hex Chrome SW 7196	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	ADC13-2-5	09/12/14	0702			X	U	S	SB	1	NR	74368.01
2.	ADC13-2-10	09/12/14	0709	X	X					1		74368.02
3.	ADC13-2-15	09/12/14	0716			X				1		74368.03
4.	ADC13-2-20	09/12/14	0720	X	X					1		74368.04
5.	ADC13-2-25	09/12/14	0724	X	X					1		74368.05
6.	ADC13-2-30	09/12/14	0728			X				1		74368.06
7.	ADC13-2-35	09/12/14	0731	X	X					1		74368.07
8.	ADC13-2-40	09/12/14	0737			X				1		74368.08
9.	ADC13-2-45	09/12/14	0743	X	X					1		74368.09
10.	ADC13-2-50	09/12/14	0746			X	↓	↓	↓	1	↓	74368.10

Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
P. Henderson		TETRA TECH, INC.	09/12/14	1400	10
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Artin		ABTL	09/12/14	1400	Courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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FAX: (909) 889-1391

SHIP TO:

CHAIN OF CUSTODY RECORD

74368

DATE 09/12/14 PAGE 2 OF 3

CLIENT: LMC

PROJECT NAME: LMC Burbank soils Inv.

PROJECT MANAGER: L. Villeneuve/M. Weinberger

TC #: 100-SBO-

SAMPLERS (Signatures): [signature]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrome SW 6020	Hex Chrome SW 7199	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	ADC13-2-55	09/12/14	0753			X	U	S	SB	1	NR	74368.11
2.	ADC13-2-60	09/12/14	0759	X	X					1		74368.12
3.	ADC13-2-65	09/12/14	0809	X	X					1		74368.13
4.	ADC13-2-70	09/12/14	0824			X				1		74368.14
5.	ADC13-2-75	09/12/14	0835			X				1		74368.15
6.	ADC13-2-85	09/12/14	0907	X	X					1		74368.16
7.	ADC13-2-90	09/12/14	0913	X	X					1		74368.17
8.	ADC13-2-95	09/12/14	0920			X				1		74368.18
9.	ADC13-2-100	09/12/14	0928	X	X					1		74368.19
10.	ADC13-2-100-Dup	09/12/14	0930	X	X					1		74368.20

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE	TETRA TECH, INC.	DATE	TIME	
P. Henderson	[signature]		09/12/14	1400	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY Artin	SIGNATURE [signature]	COMPANY AETC	DATE 09/12/14	TIME 1400	METHOD OF SHIPMENT/SHIPMENT NO. Courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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SHIP TO: _____

74368

DATE 09/12/14 PAGE 3 OF 3

CLIENT: LMC

PROJECT NAME: LMC Burbank Soils INV

PROJECT MANAGER: T. Villeneuve/M. Weinberg

TC #: 100-580

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom SW6020	Hex Chrom SW7199	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	EB-091214-B	09/12/14	0700	X	X	U	W	P	2	NR	74368-21
2.											
3.											
4.											
5.											
6.											
7.											
8.											
9.											
10.											

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
P. Henderson		TETRA TECH, INC.	09/12/14	1400	2
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Aptin		AGTC	09/12/14	1400	Courier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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COOLER RECEIPT FORM

Client Name: Tetra Tech
Project Name:
AETL Job Number: 74366, 74367, & 74368
Date Received: 09/12/14 Received by: Antia
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.1°C, No 2: 3.2°C, No 3:
Type of sample containers: ☒ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
None, HNO_3, NaOH, ZnOAc, ☒ HCl, $Na_2S_2O_3$, MeOH
Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	X		
2. Are the Sample labels legible?	X		
3. Do samples match the COC?	X		
4. Are the required analyses clear?	X		
5. Is there enough samples for required analysis?	X		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	X		
8. Are samples preserved?	X		
9. Are samples preserved properly for the intended analysis?	X		
10. Are the VOAs free of headspace?	X		
11. Are the jars free of headspace?	N/A		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/12/2014
Date Reported 09/22/2014

Job Number	Order Date	Client
74368	09/12/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 21 samples with the following specification on 09/12/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74368.21	EB-901214-B	09/12/2014	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/19/2014	2	Normal	mg/L
7199 ^ MG/L	09/19/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74368.01	AOC13-2-5	09/12/2014	Soil	1
74368.03	AOC13-2-15	09/12/2014	Soil	1
74368.06	AOC13-2-30	09/12/2014	Soil	1
74368.08	AOC13-2-40	09/12/2014	Soil	1
74368.10	AOC13-2-50	09/12/2014	Soil	1
74368.11	AOC13-2-55	09/12/2014	Soil	1
74368.14	AOC13-2-70	09/12/2014	Soil	1
74368.15	AOC13-2-75	09/12/2014	Soil	1
74368.18	AOC13-2-95	09/12/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/19/2014	2	Normal	--

74368.02	AOC13-2-10	09/12/2014	Soil	1
74368.04	AOC13-2-20	09/12/2014	Soil	1
74368.05	AOC13-2-25	09/12/2014	Soil	1
74368.07	AOC13-2-35	09/12/2014	Soil	1
74368.09	AOC13-2-45	09/12/2014	Soil	1
74368.12	AOC13-2-60	09/12/2014	Soil	1
74368.13	AOC13-2-65	09/12/2014	Soil	1
74368.16	AOC13-2-85	09/12/2014	Soil	1
74368.17	AOC13-2-90	09/12/2014	Soil	1

Continued

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Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/12/2014
Date Reported 09/22/2014

Job Number	Order Date	Client
74368	09/12/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74368.19	AOC13-2-100	09/12/2014	Soil	1
74368.20	AOC13-2-100-DUP	09/12/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ BOU-CR	09/19/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/19/2014	2	Normal	mg/Kg
ASTM-D2216	09/19/2014	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Holding time of sample 74368.21 (EB-091214B) was extended to 28 days by addition of ammonium sulfate buffer solution.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C11

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/15/2014				
Preparation Method			3050B				
Date Analyzed			09/16/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C11

Our Lab I.D.			74368.02	74368.04	74368.05	74368.07	74368.09
Client Sample I.D.			AOC13-2-10	AOC13-2-20	AOC13-2-25	AOC13-2-35	AOC13-2-45
Date Sampled			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	8.09	3.38	2.64	3.22	3.60

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C11

Our Lab I.D.			74368.12	74368.13	74368.16	74368.17	74368.19
Client Sample I.D.			AOC13-2-60	AOC13-2-65	AOC13-2-85	AOC13-2-90	AOC13-2-100
Date Sampled			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	3.99	2.66	5.92	6.65	5.44

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C11

Our Lab I.D.			**74368.20**				
Client Sample I.D.			AOC13-2-100 -DUP				
Date Sampled			09/12/2014				
Date Prepared			09/15/2014				
Preparation Method			3050B				
Date Analyzed			09/16/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	7.17				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091714-1

Our Lab I.D.			Method Blank	74368.02	74368.04	74368.05	74368.07
Client Sample I.D.				AOC13-2-10	AOC13-2-20	AOC13-2-25	AOC13-2-35
Date Sampled				09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091714-1

Our Lab I.D.			74368.09	74368.12	74368.13	74368.16	74368.17
Client Sample I.D.			AOC13-2-45	AOC13-2-60	AOC13-2-65	AOC13-2-85	AOC13-2-90
Date Sampled			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	0.396	ND

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091714-1

Our Lab I.D.			74368.19	74368.20			
Client Sample I.D.			AOC13-2-100	AOC13-2-100 -DUP			
Date Sampled			09/12/2014	09/12/2014			
Date Prepared			09/17/2014	09/17/2014			
Preparation Method			3060A	3060A			
Date Analyzed			09/17/2014	09/17/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.10	0.10	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091514-1

Our Lab I.D.			Method Blank	74368.02	74368.04	74368.05	74368.07
Client Sample I.D.				AOC13-2-10	AOC13-2-20	AOC13-2-25	AOC13-2-35
Date Sampled				09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	7.70	4.00	2.30	3.90

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **10**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091514-1

Our Lab I.D.			74368.09	74368.12	74368.13	74368.16	74368.17
Client Sample I.D.			AOC13-2-45	AOC13-2-60	AOC13-2-65	AOC13-2-85	AOC13-2-90
Date Sampled			09/12/2014	09/12/2014	09/12/2014	09/12/2014	09/12/2014
Date Prepared			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	2.90	3.60	3.40	1.90	4.07

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091514-1

Our Lab I.D.			74368.19	74368.20			
Client Sample I.D.			AOC13-2-100	AOC13-2-100 -DUP			
Date Sampled			09/12/2014	09/12/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	6.17	3.59			

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Page: **12**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0912141C2

Our Lab I.D.			Method Blank	74368.21			
Client Sample I.D.				EB-901214-B			
Date Sampled				09/12/2014			
Date Prepared			09/12/2014	09/12/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/14/2014	09/14/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1

Our Lab I.D.			Method Blank	74368.21			
Client Sample I.D.				EB-901214-B			
Date Sampled				09/12/2014			
Date Prepared			09/15/2014	09/15/2014			
Preparation Method			7199	7199			
Date Analyzed			09/15/2014	09/15/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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QUALITY CONTROL RESULTS

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0912141C2; Dup or Spiked Sample: 74329.10; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	92.8	0.0100	0.0100	91.2	1.74	75-125	<15

QC Batch No: 0912141C2; Dup or Spiked Sample: 74329.10; LCS: Clean Water; QC Prepared: 09/12/2014; QC Analyzed: 09/14/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	87.9	0.0100	0.0100	90.8	3.25	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091514-1; Dup or Spiked Sample: 74368.21; LCS: Clean Water; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	1.16	116	1.00	0.946	94.6	20.3	80-120	<20

QC Batch No: 091514-1; Dup or Spiked Sample: 74368.21; LCS: Clean Water; QC Prepared: 09/15/2014; QC Analyzed: 09/15/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	1.12	112	1.00	1.16	116	3.5	80-120	<20	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0915141C11; Dup or Spiked Sample: 74368.02; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	7.47	10.0	17.6	101	10.0	16.9	94.3	6.86	75-125	<15

QC Batch No: 0915141C11; Dup or Spiked Sample: 74368.02; LCS: Clean Sand; QC Prepared: 09/15/2014; QC Analyzed: 09/16/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.910	90.7	1.00	0.910	91.0	<1	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091714-1; Dup or Spiked Sample: 74368.02; LCS: Clean Sand; QC Prepared: 09/17/2014; QC Analyzed: 09/17/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.308	123	0.250	0.338M	135	9.3	80-120	<20

QC Batch No: 091714-1; Dup or Spiked Sample: 74368.02; LCS: Clean Sand; QC Prepared: 09/17/2014; QC Analyzed: 09/17/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.260	104	0.250	0.248	99.2	4.7	80-120	<20	

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Page: **18**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74368	09/12/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091514-1; Dup or Spiked Sample: 74368.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	7.70	8.00	3.8	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Number of Pages	**18**
Date Received	**09/15/2014**
Date Reported	**09/22/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74390	09/15/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 12 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

CHAIN OF CUSTODY RECORD

74390

DATE SEPT. 15, 2014 PAGE 1 OF 3

CLIENT: CMC

PROJECT NAME: BURBANK METALS

PROJECT MANAGER: M. WEINBERGER

TC#: 100-SBO-T32955

SAMPLERS (Signature): [signature]

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr^{6+}	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	EB-0915/4-A	9-15-14	0715	X	X		U	W	P	2	NR	74390-01
2.	ACC14-1-5	9-15-14	0855	X	X		U	S	SB	1	NR	74390.02
3.	AOC 14-1-10		0900			X			SB			74390.03
4.	AOC14-1-15		0905	X	X				SB			74390.04
5.	AOC14-1-20		0910			X			SB			74390.05
6.	AOC14-1-25		0915	X	X				G			74390.06
7.	AOC14-1-30		0920			X			SB			74390.07
8.	AOC14-1-25-DUP		0916	X	X				G			74390.08
9.	AOC 14-1-35		0930			X			SB			74390.09
10.	AOC 14-1-40		0940	X	X				SB			74390.10

Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
A. MCMASTER	[signature]	TETRA TECH, INC.	9/15/14	1600	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 11
RECEIVED BY: Saigis-1	SIGNATURE	COMPANY: AETL	DATE: 9/15/14	TIME: 1600	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: Saigis-1	SIGNATURE	COMPANY: AETL	DATE: 9/15/14	TIME: 1620	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Antin	SIGNATURE	COMPANY: AETL	DATE: 9/15/14	TIME: 1620	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

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SHIP TO: AETL

74390

DATE 9-15-14 PAGE 2 OF 3

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr 6+	Hold	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC14-1-45	9-15-14	0950			X	U	S	SB	1	NR	Please report all data to MDL 74390.11
2.	AOC14-1-50		0955	X	X							74390.12
3.	AOC14-1-55		1005			X						74390.13
4.	AOC14-1-60		1015	X	X							74390.14
5.	AOC14-1-65		1025			X			″			74390.15
6.	AOC14-1-70		1035	X	X				G			74390.16
7.	AOC14-1-70-DUP		1034	X	X				G			74390.17
8.	AOC14-1-75		1040			X			SB			74390.18
9.	AOC14-1-80		1045	X	X				SB			74390.19
10.	AOC14-1-90		1110			X			SB			74390.20

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
D. MCALISTER		TETRA TECH, INC.	9/15/14	1600
RECEIVED BY: Sargis P		AETC	9/15/14	1600
RELINQUISHED BY: Sargis P		AETC	9/15/14	1620
RECEIVED BY: Actio		AETC	09/15/14	1620

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
Special Shipping/Handling/Storage Requirements:

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CHAIN OF CUSTODY RECORD

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Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74390

DATE 9-15-14 PAGE 3 OF 3

CLIENT: LMC
PROJECT NAME: BURBANK MGMTS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr 6+	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC14-1-95	9-15-14	1130	X	X		U	S	SB	1	NR	74390.21
2.	AOC14-1-100	9-15-14	1140	X	X		U	S	G	1	NR	74390.22
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

PARAMETERS

TURN-AROUND TIME

Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SB - Brass Sleeve
SS - Stainless Steel Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY: D. MCALISTER	SIGNATURE	TETRA TECH, INC.	DATE 9/15/14	TIME 1600	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 2
RECEIVED BY: Sanjis-p	SIGNATURE	COMPANY AETL	DATE 9/15/14	TIME 1620	METHOD OF SHIPMENT/SHIPMENT NO. COURIER
RELINQUISHED BY: Sanjis-p	SIGNATURE	COMPANY AETL	DATE 9/15/14	TIME 1620	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Aetin	SIGNATURE	COMPANY AETL	DATE 09/15/14	TIME 1620	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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COOLER RECEIPT FORM

Client Name: Tetra Tech

Project Name:

AETL Job Number: 74390, & 74391

Date Received: 09/15/14 Received by: Artin

Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.1°C, No 2: 3.2°C, No 3:

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify):

How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?			
2. Are the Sample labels legible?			
3. Do samples match the COC?			
4. Are the required analyses clear?			
5. Is there enough samples for required analysis?			
6. Are samples sealed with evidence tape?			
7. Are sample containers in good condition?			
8. Are samples preserved?			
9. Are samples preserved properly for the intended analysis?			
10. Are the VOAs free of headspace?			
11. Are the jars free of headspace?			

Explain all "No" answers for above questions:

Sample preserved in the lab with Buffer on 09/15/14 at 1630

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/15/2014
Date Reported 09/22/2014

Job Number	Order Date	Client
74390	09/15/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 22 samples with the following specification on 09/15/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74390.01	EB-091514-A	09/15/2014	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/22/2014	2	Normal	mg/L
7199 ^ MG/L	09/22/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74390.02	AOC14-1-5	09/15/2014	Soil	1
74390.04	AOC14-1-15	09/15/2014	Soil	1
74390.06	AOC14-1-25	09/15/2014	Soil	1
74390.08	AOC14-1-25-DUP	09/15/2014	Soil	1
74390.10	AOC14-1-40	09/15/2014	Soil	1
74390.12	AOC14-1-50	09/15/2014	Soil	1
74390.14	AOC14-1-60	09/15/2014	Soil	1
74390.16	AOC14-1-70	09/15/2014	Soil	1
74390.17	AOC14-1-70-DUP	09/15/2014	Soil	1
74390.19	AOC14-1-80	09/15/2014	Soil	1
74390.21	AOC14-1-95	09/15/2014	Soil	1
74390.22	AOC14-1-100	09/15/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/22/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/22/2014	2	Normal	mg/Kg
ASTM-D2216	09/22/2014	2	Normal	% wt
74390.03	AOC14-1-10	09/15/2014	Soil	1
74390.05	AOC14-1-20	09/15/2014	Soil	1
74390.07	AOC14-1-30	09/15/2014	Soil	1
74390.09	AOC14-1-35	09/15/2014	Soil	1

Continued

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Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74390	09/15/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74390.11	AOC14-1-45	09/15/2014	Soil	1
74390.13	AOC14-1-55	09/15/2014	Soil	1
74390.15	AOC14-1-65	09/15/2014	Soil	1
74390.18	AOC14-1-75	09/15/2014	Soil	1
74390.20	AOC14-1-90	09/15/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
ARCHIVE	09/22/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
Analytical non-conformances have been noted on the report.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1

Our Lab I.D.			Method Blank	**74390.01**			
Client Sample I.D.				EB-091514-A			
Date Sampled				09/15/2014			
Date Prepared			09/19/2014	09/19/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/20/2014	09/20/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1

Our Lab I.D.			Method Blank	**74390.01**			
Client Sample I.D.				EB-091514-A			
Date Sampled				09/15/2014			
Date Prepared			09/16/2014	09/16/2014			
Preparation Method			7199	7199			
Date Analyzed			09/16/2014	09/16/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/18/2014				
Preparation Method			3050B				
Date Analyzed			09/19/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C3

Our Lab I.D.			74390.02	74390.04	74390.06	74390.08	74390.10
Client Sample I.D.			AOC14-1-5	AOC14-1-15	AOC14-1-25	AOC14-1-25-DUP	AOC14-1-40
Date Sampled			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	4.34	3.20	4.04	3.46	4.17

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C3

Our Lab I.D.			74390.12	74390.14	74390.16	74390.17	74390.19
Client Sample I.D.			AOC14-1-50	AOC14-1-60	AOC14-1-70	AOC14-1-70-DUP	AOC14-1-80
Date Sampled			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	2.49	4.48	4.00	4.06	10.7

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C3

Our Lab I.D.			74390.21	74390.22			
Client Sample I.D.			AOC14-1-95	AOC14-1-100			
Date Sampled			09/15/2014	09/15/2014			
Date Prepared			09/18/2014	09/18/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/19/2014	09/19/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.350	1.000	16.5	3.98			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091714-1

Our Lab I.D.			Method Blank	74390.02	74390.04	74390.06	74390.08
Client Sample I.D.				AOC14-1-5	AOC14-1-15	AOC14-1-25	AOC14-1-25-DUP
Date Sampled				09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091714-1

Our Lab I.D.			74390.10	74390.12	74390.14	74390.16	74390.17
Client Sample I.D.			AOC14-1-40	AOC14-1-50	AOC14-1-60	AOC14-1-70	AOC14-1-70-DUP
Date Sampled			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091714-1

Our Lab I.D.			74390.19	74390.21	74390.22		
Client Sample I.D.			AOC14-1-80	AOC14-1-95	AOC14-1-100		
Date Sampled			09/15/2014	09/15/2014	09/15/2014		
Date Prepared			09/17/2014	09/17/2014	09/17/2014		
Preparation Method			3060A	3060A	3060A		
Date Analyzed			09/17/2014	09/17/2014	09/17/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium (VI)	0.10	0.10	ND	ND	ND		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091614-2

Our Lab I.D.			Method Blank	74390.02	74390.04	74390.06	74390.08
Client Sample I.D.				AOC14-1-5	AOC14-1-15	AOC14-1-25	AOC14-1-25-DUP
Date Sampled				09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	1.20	2.50	5.80	3.20

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091614-2

Our Lab I.D.			74390.10	74390.12	74390.14	74390.16	74390.17
Client Sample I.D.			AOC14-1-40	AOC14-1-50	AOC14-1-60	AOC14-1-70	AOC14-1-70-DUP
Date Sampled			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	3.60	2.40	5.40	3.80	5.81

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091614-2

Our Lab I.D.			74390.19	74390.21	74390.22		
Client Sample I.D.			AOC14-1-80	AOC14-1-95	AOC14-1-100		
Date Sampled			09/15/2014	09/15/2014	09/15/2014		
Date Prepared			09/16/2014	09/16/2014	09/16/2014		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/16/2014	09/16/2014	09/16/2014		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	4.05	5.71	6.04		

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QUALITY CONTROL RESULTS

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	.000100	0.0100	0.0100	99.2	0.0100	0.0100	97.0	2.24	75-125	<15

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	102	0.0100	0.0100	101	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **15**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1; Dup or Spiked Sample: 74390.01; LCS: Clean Water; QC Prepared: 09/16/2014; QC Analyzed: 09/16/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	1.13	113	1.00	1.22 M	122	7.7	80-120	<20

QC Batch No: 091614-1; Dup or Spiked Sample: 74390.01; LCS: Clean Water; QC Prepared: 09/16/2014; QC Analyzed: 09/16/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.882	88.2	1.00	1.19	119	29.7	80-120	<20	

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Attn: Michael Weinberger

Site

Burbank Metals

Page: **16**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C3; Dup or Spiked Sample: 74407.01; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/19/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	6.91	10.0	16.2	92.9	10.0	17.5	106	13.2	75-125	<15

QC Batch No: 0918141C3; Dup or Spiked Sample: 74407.01; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/19/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.960	96.0	1.00	0.980	98.1	2.16	75-125	<15	

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **17**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091714-1; Dup or Spiked Sample: 74390.02; LCS: Clean Sand; QC Prepared: 09/17/2014; QC Analyzed: 09/17/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.258	103	0.250	0.248	99.2	3.8	80-120	<20

QC Batch No: 091714-1; Dup or Spiked Sample: 74390.02; LCS: Clean Sand; QC Prepared: 09/17/2014; QC Analyzed: 09/17/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.246	98.4	0.250	0.250	100	1.6	80-120	<20	

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **18**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74390	09/15/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091614-2; Dup or Spiked Sample: 74390.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	1.20	1.30	8.0	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

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Number of Pages	**18**
Date Received	**09/15/2014**
Date Reported	**09/22/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74391	09/15/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 11 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74391

DATE 09/15/14 PAGE 1 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soils Inv
PROJECT MANAGER: T. Villeneuve/M. Wehnberg
TC #:
SAMPLERS (Signature): _____

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom (SW6020)	Hex Chrome (SW7199)	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC15-1-5	09/15/14	1157	X	X		U	S	SB	1	NR	74391.01
2.	AOC15-1-10		1200			X						74391.02
3.	AOC15-1-15		1203			X						74391.03
4.	AOC15-1-20		1207	X	X							74391.04
5.	AOC15-1-25		1210			X						74391.05
6.	AOC15-1-30		1215	X	X							74391.06
7.	AOC15-1-35		1218			X						74391.07
8.	AOC15-1-40		1222	X	X							74391.08
9.	AOC15-1-45		1226	X	X							74391.09
10.	AOC15-1-50		1230			X						74391.10

Standard

Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
P. Henderson		TETRA TECH, INC.	09/15/14	1600	10
RECEIVED BY: Sanjis P	SIGNATURE	COMPANY: AGTL	DATE: 9/15/14	TIME: 1605	METHOD OF SHIPMENT/SHIPMENT NO.: Courrier
RELINQUISHED BY: Sanjis P	SIGNATURE	COMPANY: AGTL	DATE: 9/15/14	TIME: 1620	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Artin	SIGNATURE	COMPANY: AGTL	DATE: 09/15/14	TIME: 1620	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74391

DATE 09/15/14 PAGE 2 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soils Inv
PROJECT MANAGER: T. Villeneve/M. Weinberger
TC #:
SAMPLERS (Signature): [signature]

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Cr (SW6020)	Hex Chrom (SW7199)	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC15-1-55	09/15/14	1235			X	U	S	SB	1	NR	74391.11
2.	AOC15-1-60		1241	X	X							74391.12
3.	AOC15-1-65		1246	X	X							74391.13
4.	AOC15-1-70		1251			X						74391.14
5.	AOC15-1-75		1257			X						74391.15
6.	AOC15-1-80		1300	X	X							74391.16
7.	AOC15-1-85		1305			X						74391.17
8.	AOC15-1-90		1310	X	X							74391.18
9.	AOC15-1-95		1315			X						74391.19
10.	AOC15-2-100		1319	X	X							74391.20

PARAMETERS

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY: P. Henderson	SIGNATURE: [signature]	TETRA TECH, INC.	DATE: 9/15/14	TIME: 1600	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: Sayles-P	SIGNATURE: [signature]	COMPANY: AETL	DATE: 9/15/14	TIME: 1600	METHOD OF SHIPMENT/SHIPMENT NO.: Courrier
RELINQUISHED BY: Sayles-P	SIGNATURE: [signature]	COMPANY: AETL	DATE: 9/15/14	TIME: 1620	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Aetn	SIGNATURE: [signature]	COMPANY: AETL	DATE: 09/15/14	TIME: 1620	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74391

DATE 09/15/14 PAGE 3 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Inv

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #:

SAMPLERS (Signatures)

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Cr (SW6020)	Hex Cr (SW7199)	HOLD	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOCIS-1-100-DUP	09/15/14	1320	X	X		U	S	~~P~~	1	NR	74391.21
2.	EB-091514-B	09/15/14	~~0900~~	X	X		U	W	P	2	NR	74391.22
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

TURN-AROUND TIME

Standard

OBSERVATIONS/COMMENTS

Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
P. Henderson		TETRA TECH, INC.	09/15/14	1600	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 3
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Sargis P		AETL	9/15/14	1600	Courier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
Sargis P		AETL	9/15/14	1620	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Artin		AETL	09/15/14	1620	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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COOLER RECEIPT FORM

Client Name: Tetra Tech

Project Name:

AETL Job Number: 74390, & 74391

Date Received: 09/15/14 Received by: Artin

Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.1°C, No 2: 3.2°C, No 3:

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify):

How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?			
2. Are the Sample labels legible?			
3. Do samples match the COC?			
4. Are the required analyses clear?			
5. Is there enough samples for required analysis?			
6. Are samples sealed with evidence tape?			
7. Are sample containers in good condition?			
8. Are samples preserved?			
9. Are samples preserved properly for the intended analysis?			
10. Are the VOAs free of headspace?			
11. Are the jars free of headspace?			

Explain all "No" answers for above questions:

Sample preserved in the lab with Buffer on 09/15/14 at 1630

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Project ID: 100-SBO-T32955
Date Received 09/15/2014
Date Reported 09/22/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74391	09/15/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 22 samples with the following specification on 09/15/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74391.22	EB-091514-B	09/15/2014	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/22/2014	2	Normal	mg/L
7199 ^ MG/L	09/22/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74391.01	AOC15-1-5	09/15/2014	Soil	1
74391.04	AOC15-1-20	09/15/2014	Soil	1
74391.06	AOC15-1-30	09/15/2014	Soil	1
74391.08	AOC15-1-40	09/15/2014	Soil	1
74391.09	AOC15-1-45	09/15/2014	Soil	1
74391.12	AOC15-1-60	09/15/2014	Soil	1
74391.13	AOC15-1-65	09/15/2014	Soil	1
74391.16	AOC15-1-80	09/15/2014	Soil	1
74391.18	AOC15-1-90	09/15/2014	Soil	1
74391.20	AOC15-1-100	09/15/2014	Soil	1
74391.21	AOC15-1-100-DUP	09/15/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/22/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/22/2014	2	Normal	mg/Kg
ASTM-D2216	09/22/2014	2	Normal	% wt

74391.02	AOC15-1-10	09/15/2014	Soil	1
74391.03	AOC15-1-15	09/15/2014	Soil	1
74391.05	AOC15-1-25	09/15/2014	Soil	1
74391.07	AOC15-1-35	09/15/2014	Soil	1
74391.10	AOC15-1-50	09/15/2014	Soil	1

Continued

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Tetra Tech, Inc. 301 E. Vanderbilt Way Suite 450 San Bernardino, CA 92408-3559	Project ID: 100-SBO-T32955 Date Received 09/15/2014 Date Reported 09/22/2014
Telephone: (909)381-1674 Attention: Michael Weinberger	

Job Number	Order Date	Client
74391	09/15/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74391.11	AOC15-1-55	09/15/2014	Soil	1
74391.14	AOC15-1-70	09/15/2014	Soil	1
74391.15	AOC15-1-75	09/15/2014	Soil	1
74391.17	AOC15-1-85	09/15/2014	Soil	1
74391.19	AOC15-1-95	09/15/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/22/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/18/2014				
Preparation Method			3050B				
Date Analyzed			09/19/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **3**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C4

Our Lab I.D.			74391.01	74391.04	74391.06	74391.08	74391.09
Client Sample I.D.			AOC15-1-5	AOC15-1-20	AOC15-1-30	AOC15-1-40	AOC15-1-45
Date Sampled			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	12.9	2.46	1.60	2.82	3.50

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C4

Our Lab I.D.			74391.12	74391.13	74391.16	74391.18	74391.20
Client Sample I.D.			AOC15-1-60	AOC15-1-65	AOC15-1-80	AOC15-1-90	AOC15-1-100
Date Sampled			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	7.48	4.67	3.89	2.39	22.1

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C4

Our Lab I.D.			74391.21				
Client Sample I.D.			AOC15-1-100 -DUP				
Date Sampled			09/15/2014				
Date Prepared			09/18/2014				
Preparation Method			3050B				
Date Analyzed			09/19/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	8.16				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091714-1

Our Lab I.D.			Method Blank	74391.01	74391.04	74391.06	74391.08
Client Sample I.D.				AOC15-1-5	AOC15-1-20	AOC15-1-30	AOC15-1-40
Date Sampled				09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091714-1

Our Lab I.D.			74391.09	74391.12	74391.13	74391.16	74391.18
Client Sample I.D.			AOC15-1-45	AOC15-1-60	AOC15-1-65	AOC15-1-80	AOC15-1-90
Date Sampled			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091714-1

Our Lab I.D.			74391.20	74391.21			
Client Sample I.D.			AOC15-1-100	AOC15-1-100 -DUP			
Date Sampled			09/15/2014	09/15/2014			
Date Prepared			09/17/2014	09/17/2014			
Preparation Method			3060A	3060A			
Date Analyzed			09/17/2014	09/17/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.10	0.10	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091614-1

Our Lab I.D.			Method Blank	74391.01	74391.04	74391.06	74391.08
Client Sample I.D.				AOC15-1-5	AOC15-1-20	AOC15-1-30	AOC15-1-40
Date Sampled				09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	13.0	2.70	2.00	2.90

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091614-1

Our Lab I.D.			74391.09	74391.12	74391.13	74391.16	74391.18
Client Sample I.D.			AOC15-1-45	AOC15-1-60	AOC15-1-65	AOC15-1-80	AOC15-1-90
Date Sampled			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	3.20	4.10	2.70	2.60	2.40

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091614-1

Our Lab I.D.			74391.20	74391.21			
Client Sample I.D.			AOC15-1-100	AOC15-1-100 -DUP			
Date Sampled			09/15/2014	09/15/2014			
Date Prepared			09/16/2014	09/16/2014			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			09/16/2014	09/16/2014			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	5.02	4.61			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1

Our Lab I.D.			Method Blank	74391.22			
Client Sample I.D.				EB-091514-B			
Date Sampled				09/15/2014			
Date Prepared			09/19/2014	09/19/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/20/2014	09/20/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1

Our Lab I.D.			Method Blank	74391.22			
Client Sample I.D.				EB-091514-B			
Date Sampled				09/15/2014			
Date Prepared			09/16/2014	09/16/2014			
Preparation Method			7199	7199			
Date Analyzed			09/16/2014	09/16/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	.000100	0.0100	0.0100	99.2	0.0100	0.0100	97.0	2.24	75-125	<15

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	102	0.0100	0.0100	101	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091614-1; Dup or Spiked Sample: 74390.01; LCS: Clean Water; QC Prepared: 09/16/2014; QC Analyzed: 09/16/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	1.13	113	1.00	1.22 M	122	7.7	80-120	<20

QC Batch No: 091614-1; Dup or Spiked Sample: 74390.01; LCS: Clean Water; QC Prepared: 09/16/2014; QC Analyzed: 09/16/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.882	88.2	1.00	1.19	119	29.7	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C4; Dup or Spiked Sample: 74391.01; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/19/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	11.2	10.0	19.5	83.0	10.0	19.5	83.0	<1	75-125	<15

QC Batch No: 0918141C4; Dup or Spiked Sample: 74391.01; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/19/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.970	97.4	1.00	0.960	95.7	1.76	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091714-1; Dup or Spiked Sample: 74390.02; LCS: Clean Sand; QC Prepared: 09/17/2014; QC Analyzed: 09/17/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.258	103	0.250	0.248	99.2	3.8	80-120	<20

QC Batch No: 091714-1; Dup or Spiked Sample: 74390.02; LCS: Clean Sand; QC Prepared: 09/17/2014; QC Analyzed: 09/17/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.246	98.4	0.250	0.250	100	1.6	80-120	<20	

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74391	09/15/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091614-1; Dup or Spiked Sample: 74391.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	13.0	12.5	3.9	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc. **301 E. Vanderbilt Way Suite 450** **San Bernardino, CA 92408-3559**

Number of Pages	**31**
Date Received	**09/16/2014**
Date Reported	**09/24/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74406	09/16/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 24 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

№ 89035

AETL JOB No. 74406

COMPANY: TETRATECH
PROJECT MANAGER: M. WEINBERGER
COMPANY ADDRESS:
PHONE:
FAX:
PROJECT NAME: BURBANK METALS
PROJECT #: 100-SBO-T32955
SITE NAME AND ADDRESS:
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: 6020-Cr	7199-Cr6+	1410	TEST INSTRUCTIONS & COMMENTS
1	EB-091614-A	74406.01	9-16-14	1005	WATER	POLY (2)	N/A	X	X		
2	AOC20-2-5	74406.02		1320	SOIL	1-BRASS RING	N/A	X	X		
3	AOC20-2-10	74406.03		1322		1-BRASS RING				X	
4	AOC20-2-15	74406.04		1324		8oz JAR (1)		X	X		
5	AOC20-2-15-DUP	74406.05		1325		8oz JAR (1)		X	X		
6	AOC20-2-20	74406.06		1328		1-BRASS RING				X	
7	AOC20-2-25	74406.07		1330				X	X		
8	AOC20-2-30	74406.08		1332						X	
9	AOC20-2-35	74406.09		1334				X	X		
10	AOC20-2-40	74406.10		1336						X	
11	AOC20-2-45	74406.11		1338				X	X		
12	AOC20-2-50	74406.12		1348						X	
13	AOC20-2-55	74406.13		1400				X	X		
14	AOC20-2-60	74406.14		1402						X	
15	AOC20-2-65	74406.15		1404		8oz JAR (1)		X	X		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	16	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND: Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	P. Henderson		C. Printup
Date: / Time:	09/16/14 / 1615	/	09/16/14 / 1630
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:			
Printed Name:	CHARLEEN PALMA		Jean Claude
Date: / Time:	09/16/14 / 1615	/	09/16/14 / 1630

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

№ 89036

AETL JOB No. 74406

COMPANY: TETRATECH
PROJECT MANAGER: M. WEINBERGER
COMPANY ADDRESS:
PHONE:
FAX:
PROJECT NAME: BURBANK METALS
PROJECT #: 100-SBO-T32955
SITE NAME AND ADDRESS:
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020-Cr	7199-Cr6+	Hold	TEST INSTRUCTIONS & COMMENTS
1	AOC20-2-65-DUP	74406.16	9-16-14	1405	SOIL	~~1-8oz JAR~~ ~~1-BRASS RING~~	N/A	X	X		
2	AOC20-2-70	74406.17	↓	1406	↓	1-BRASS RING	↓			X	
3	AOC20-2-75	74406.18		1408		↓		X	X		
4	AOC20-2-85	74406.19		1430				X	X		
5	AOC20-2-90	74406.20		1432						X	
6	AOC20-2-100	74406.21	↓	1450		1-8oz JAR		X	X		
7	AOC18-2-5	74406.22	9-15-14	1450		1-BRASS RING		X	X		
8	AOC18-2-10	74406.23	↓	1500		1-BRASS RING				X	
9	AOC18-2-15	74406.24		1510		1-8oz JAR		X	X		
10	AOC18-2-15-DUP	74406.25		1511		1-8oz JAR		X	X		
11	AOC18-2-20	74406.26		1515		1-BRASS RING				X	
12	AOC18-2-25	74406.27		1520		↓		X	X		
13	AOC18-2-30	74406.28		1522						X	
14	AOC18-2-35	74406.29		1525				X	X		
15	AOC18-2-40	74406.30	↓	1526	↓	↓	↓			X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME: ☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY) ______

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: P. Henderson	Printed Name:	Printed Name: C. Palomo
Date: 09/16/14 Time: 1615	Date: Time:	Date: 09/16/14 Time: 1630
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Chameleon Palomo	Printed Name:	Printed Name: Jean Claude
Date: 09/16/14 Time: 1615	Date: Time:	Date: 09/16/14 Time: 1630

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

№ 89037

AETL JOB No. 74406

COMPANY: TETRATECH	PROJECT MANAGER: M. WEINBERGER
COMPANY ADDRESS:	PHONE:
	FAX:
PROJECT NAME: BURBANK SOILS	PROJECT #: 100-SBG-T32955
SITE NAME AND ADDRESS:	PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: 6020 - Cr	7199 - Cr6+	1402.0	TEST INSTRUCTIONS & COMMENTS
1	AOC18-2-45	74406.31	9-15-14	1535	SOIL	1-BRASS RING	N/A	X	X		
2	AOC18-2-50	74406.32		1538						X	
3	AOC18-2-55	74406.33		1540				X	X		
4	AOC18-2-60	74406.34		1542						X	
5	AOC18-2-65	74406.35		1610		1-8oz JAR		X	X		
6	AOC18-2-65-DUP	74406.36		1612		1-8oz JAR		X	X		
7	AOC18-2-70	74406.37		1615		1-BRASS RING				X	
8	AOC18-2-75	74406.38		1620				X	X		
9	AOC18-2-80	74406.39		1630						X	
10	AOC18-2-85	74406.40		1640				X	X		
11	AOC18-2-90	74406.41		1645						X	
12	AOC18-2-95	74406.42		1650				X	X		
13	AOC18-2-100	74406.43		1700		1-8oz JAR				X	
14											
15											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	13	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: P. Henderson	Printed Name:	Printed Name: C. Padilla
Date: 09/16/14 Time: 1615	Date: Time:	Date: 09/16/14 Time: 1630
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: CARLTON PADILLA	Printed Name:	Printed Name: Jean Lauder
Date: 09/16/14 Time: 1615	Date: Time:	Date: 09/16/14 Time: 1630

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Tetra Tech

Project Name: Burbank metals

AETL Job Number: 74406

Date Received: 09/16/14 Received by: Juan Landa

Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.2°C, No 2: _____, No 3: _____

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): brass sleeves

How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice

☒ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	X		
2. Are the Sample labels legible?	X		
3. Do samples match the COC?	X		
4. Are the required analyses clear?	X		
5. Is there enough samples for required analysis?	X		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	X		
8. Are samples preserved?	X		
9. Are samples preserved properly for the intended analysis?	X		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	∅		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Project ID: 100-SBO-T32955
Date Received 09/16/2014
Date Reported 09/24/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74406	09/16/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 43 samples with the following specification on 09/16/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74406.01	EB-091614-A	09/16/2014	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/23/2014	2	Normal	mg/L
7199 ^ MG/L	09/23/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74406.02	AOC20-2-5	09/16/2014	Soil	1
74406.04	AOC20-2-15	09/16/2014	Soil	1
74406.05	AOC20-2-15-DUP	09/16/2014	Soil	1
74406.07	AOC20-2-25	09/16/2014	Soil	1
74406.09	AOC20-2-35	09/16/2014	Soil	1
74406.11	AOC20-2-45	09/16/2014	Soil	1
74406.13	AOC20-2-55	09/16/2014	Soil	1
74406.15	AOC20-2-65	09/16/2014	Soil	1
74406.16	AOC20-2-65-DUP	09/16/2014	Soil	1
74406.18	AOC20-2-75	09/16/2014	Soil	1
74406.19	AOC20-2-85	09/16/2014	Soil	1
74406.21	AOC20-2-100	09/16/2014	Soil	1
74406.22	AOC18-2-5	09/15/2014	Soil	1
74406.24	AOC18-2-15	09/15/2014	Soil	1
74406.25	AOC18-2-15-DUP	09/15/2014	Soil	1
74406.27	AOC18-2-25	09/15/2014	Soil	1
74406.29	AOC18-2-35	09/15/2014	Soil	1
74406.31	AOC18-2-45	09/15/2014	Soil	1
74406.33	AOC18-2-55	09/15/2014	Soil	1
74406.35	AOC18-2-65	09/15/2014	Soil	1

Continued

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Project ID: 100-SBO-T32955
Date Received 09/16/2014
Date Reported 09/24/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74406	09/16/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74406.36	AOC18-2-65-DUP	09/15/2014	Soil	1
74406.38	AOC18-2-75	09/15/2014	Soil	1
74406.40	AOC18-2-85	09/15/2014	Soil	1
74406.42	AOC18-2-95	09/15/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/23/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/23/2014	2	Normal	mg/Kg
ASTM-D2216	09/23/2014	2	Normal	% wt

74406.03	AOC20-2-10	09/16/2014	Soil	1
74406.06	AOC20-2-20	09/16/2014	Soil	1
74406.08	AOC20-2-30	09/16/2014	Soil	1
74406.10	AOC20-2-40	09/16/2014	Soil	1
74406.12	AOC20-2-50	09/16/2014	Soil	1
74406.14	AOC20-2-60	09/16/2014	Soil	1
74406.17	AOC20-2-70	09/16/2014	Soil	1
74406.20	AOC20-2-90	09/16/2014	Soil	1
74406.23	AOC18-2-10	09/15/2014	Soil	1
74406.26	AOC18-2-20	09/15/2014	Soil	1
74406.28	AOC18-2-30	09/15/2014	Soil	1
74406.30	AOC18-2-40	09/15/2014	Soil	1
74406.32	AOC18-2-50	09/15/2014	Soil	1
74406.34	AOC18-2-60	09/15/2014	Soil	1
74406.37	AOC18-2-70	09/15/2014	Soil	1
74406.39	AOC18-2-80	09/15/2014	Soil	1
74406.41	AOC18-2-90	09/15/2014	Soil	1
74406.43	AOC18-2-100	09/15/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/23/2014	2	Normal	--

Continued

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Ordered By

Tetra Tech, Inc. 301 E. Vanderbilt Way Suite 450 San Bernardino, CA 92408-3559	Project ID: 100-SBO-T32955 Date Received 09/16/2014 Date Reported 09/24/2014
Telephone: (909)381-1674 Attention: Michael Weinberger	

Job Number	Order Date	Client
74406	09/16/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Holding time of sample 74406.01 (EB-091614-A) was extended to 28 days by addition of ammonium sulfate buffer.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1

Our Lab I.D.			Method Blank	**74406.01**			
Client Sample I.D.				EB-091614-A			
Date Sampled				09/16/2014			
Date Prepared			09/19/2014	09/19/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/20/2014	09/20/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **3**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1

Our Lab I.D.			Method Blank	74406.01			
Client Sample I.D.				EB-091614-A			
Date Sampled				09/16/2014			
Date Prepared			09/18/2014	09/18/2014			
Preparation Method			7199	7199			
Date Analyzed			09/18/2014	09/18/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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ANALYTICAL RESULTS

Ordered By

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Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

Page: **4**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/18/2014				
Preparation Method			3050B				
Date Analyzed			09/19/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **5**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C1

Our Lab I.D.			74406.02	74406.04	74406.05	74406.07	74406.09
Client Sample I.D.			AOC20-2-5	AOC20-2-15	AOC20-2-15-DUP	AOC20-2-25	AOC20-2-35
Date Sampled			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	6.64	4.74	4.20	12.9	2.99

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C1

Our Lab I.D.			74406.11	74406.13	74406.15	74406.16	74406.18
Client Sample I.D.			AOC20-2-45	AOC20-2-55	AOC20-2-65	AOC20-2-65-DUP	AOC20-2-75
Date Sampled			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	3.02	2.59	9.34	11.0	10.5

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C1

Our Lab I.D.			74406.19	74406.21	74406.22	74406.24	74406.25
Client Sample I.D.			AOC20-2-85	AOC20-2-100	AOC18-2-5	AOC18-2-15	AOC18-2-15-DUP
Date Sampled			09/16/2014	09/16/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	5.92	7.54	7.48	2.63	2.70

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C1

Our Lab I.D.			74406.27				
Client Sample I.D.			AOC18-2-25				
Date Sampled			09/15/2014				
Date Prepared			09/18/2014				
Preparation Method			3050B				
Date Analyzed			09/19/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	2.27				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/18/2014				
Preparation Method			3050B				
Date Analyzed			09/19/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C2

Our Lab I.D.			74406.29	74406.31	74406.33	74406.35	74406.36
Client Sample I.D.			AOC18-2-35	AOC18-2-45	AOC18-2-55	AOC18-2-65	AOC18-2-65-DUP
Date Sampled			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	3.31	3.80	12.7	2.14	2.75

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C2

Our Lab I.D.			74406.38	74406.40	74406.42		
Client Sample I.D.			AOC18-2-75	AOC18-2-85	AOC18-2-95		
Date Sampled			09/15/2014	09/15/2014	09/15/2014		
Date Prepared			09/18/2014	09/18/2014	09/18/2014		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			09/19/2014	09/19/2014	09/19/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium	0.350	1.000	3.83	11.1	6.51		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1

Our Lab I.D.			Method Blank	74406.02	74406.04	74406.05	74406.07
Client Sample I.D.				AOC20-2-5	AOC20-2-15	AOC20-2-15-DUP	AOC20-2-25
Date Sampled				09/16/2014	09/16/2014	09/16/2014	09/16/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1

Our Lab I.D.			74406.09	74406.11	74406.13	74406.15	74406.16
Client Sample I.D.			AOC20-2-35	AOC20-2-45	AOC20-2-55	AOC20-2-65	AOC20-2-65-DUP
Date Sampled			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1

Our Lab I.D.			74406.18	74406.19	74406.21	74406.22	74406.24
Client Sample I.D.			AOC20-2-75	AOC20-2-85	AOC20-2-100	AOC18-2-5	AOC18-2-15
Date Sampled			09/16/2014	09/16/2014	09/16/2014	09/15/2014	09/15/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-2

Our Lab I.D.			Method Blank	74406.25	74406.27	74406.29	74406.31
Client Sample I.D.				AOC18-2-15-DUP	AOC18-2-25	AOC18-2-35	AOC18-2-45
Date Sampled				09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-2

Our Lab I.D.			74406.33	74406.35	74406.36	74406.38	74406.40
Client Sample I.D.			AOC18-2-55	AOC18-2-65	AOC18-2-65-DUP	AOC18-2-75	AOC18-2-85
Date Sampled			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-2

Our Lab I.D.			74406.42				
Client Sample I.D.			AOC18-2-95				
Date Sampled			09/15/2014				
Date Prepared			09/18/2014				
Preparation Method			3060A				
Date Analyzed			09/18/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (VI)	0.10	0.10	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091714-1

Our Lab I.D.			Method Blank	74406.02	74406.04	74406.05	74406.07
Client Sample I.D.				AOC20-2-5	AOC20-2-15	AOC20-2-15-DUP	AOC20-2-25
Date Sampled				09/16/2014	09/16/2014	09/16/2014	09/16/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	5.70	5.30	4.90	5.60

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091714-1

Our Lab I.D.			74406.09	74406.11	74406.13	74406.15	74406.16
Client Sample I.D.			AOC20-2-35	AOC20-2-45	AOC20-2-55	AOC20-2-65	AOC20-2-65-DUP
Date Sampled			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	3.90	3.70	4.40	13.3	12.5

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091714-1

Our Lab I.D.			74406.18	74406.19	74406.21	74406.22	74406.24
Client Sample I.D.			AOC20-2-75	AOC20-2-85	AOC20-2-100	AOC18-2-5	AOC18-2-15
Date Sampled			09/16/2014	09/16/2014	09/16/2014	09/15/2014	09/15/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	7.12	2.95	6.27	4.26	1.86

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **21**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091714-2

Our Lab I.D.			Method Blank	74406.25	74406.27	74406.29	74406.31
Client Sample I.D.				AOC18-2-15-DUP	AOC18-2-25	AOC18-2-35	AOC18-2-45
Date Sampled				09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	1.70	2.50	2.60	3.20

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091714-2

Our Lab I.D.			74406.33	74406.35	74406.36	74406.38	74406.40
Client Sample I.D.			AOC18-2-55	AOC18-2-65	AOC18-2-65-DUP	AOC18-2-75	AOC18-2-85
Date Sampled			09/15/2014	09/15/2014	09/15/2014	09/15/2014	09/15/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	16.5	3.70	3.50	9.60	14.4

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091714-2

Our Lab I.D.			74406.42				
Client Sample I.D.			AOC18-2-95				
Date Sampled			09/15/2014				
Date Prepared			09/17/2014				
Preparation Method			ASTM-D2216				
Date Analyzed			09/17/2014				
Matrix			Soil				
Units			% wt				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Moisture Content	0.1	0.1	3.69				

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Page: **24**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.00992	99.2	0.0100	0.00970	97.0	2.24	75-125	<15

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0102	102	0.0100	0.0101	101	<1	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1; Dup or Spiked Sample: 74406.01; LCS: Clean Water; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.809	80.9	1.00	0.775M	77.5	4.3	80-120	<20

QC Batch No: 091814-1; Dup or Spiked Sample: 74406.01; LCS: Clean Water; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	1.08	108	1.00	1.06	106	1.9	80-120	<20	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C1; Dup or Spiked Sample: 74406.02; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/19/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	6.26	10.0	15.7	94.4	10.0	16.2	99.4	5.16	75-125	<15

QC Batch No: 0918141C1; Dup or Spiked Sample: 74406.02; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/19/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	1.03	103	1.00	0.950	95.0	8.08	75-125	<15	

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Page: **27**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C2; Dup or Spiked Sample: 74406.29; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/19/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	3.22	10.0	14.1	109	10.0	12.5	92.8	16.1	75-125	<15

QC Batch No: 0918141C2; Dup or Spiked Sample: 74406.29; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/19/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	1.04	104	1.00	0.990	98.5	5.43	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1; Dup or Spiked Sample: 74406.02; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.233	93.3	0.250	0.248	99.2	6.1	80-120	<20

QC Batch No: 091814-1; Dup or Spiked Sample: 74406.02; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.210	84.0	0.250	0.205	82.0	2.4	80-120	<20	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-2; Dup or Spiked Sample: 74406.22; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.231	92.5	0.250	0.265	106	13.6	80-120	<20

QC Batch No: 091814-2; Dup or Spiked Sample: 74406.22; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.217	86.8	0.250	0.210	84.0	3.3	80-120	<20	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091714-1; Dup or Spiked Sample: 74406.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	5.70	6.20	8.4	<20						

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Site

Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74406	09/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091714-2; Dup or Spiked Sample: 74406.25; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	1.70	1.60	6.1	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Number of Pages	**17**
Date Received	**09/16/2014**
Date Reported	**09/24/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74407	09/16/2014	T/TSB2

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 10 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

Nº 88492

AETL JOB No. 74407 Page 1 of 2

COMPANY	Tetra Tech, Inc.
PROJECT MANAGER	T.Villeneuve/M.Weinberger
COMPANY ADDRESS	301 E. Vanderbilt Way Suite 450, San Bernardino, CA
PHONE / FAX	FAX 909-381-1674
PROJECT NAME	Burbank Soils Inv
PROJECT #	100-SBO-T32955.TM
SITE NAME AND ADDRESS	
PO #	

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Total Cr SW6020	Hex Chrom SW7199	HOLD	TEST INSTRUCTIONS & COMMENTS
1 AOC20-1-5	74407.01	09/16/14	1219	Soil	1		X	X		
2 AOC20-1-10	74407.02		1229						X	
3 AOC20-1-15	74407.03		1234						X	
4 AOC20-1-20	74407.04		1241				X	X		
5 AOC20-1-25	74407.05		1247						X	
6 AOC20-1-30	74407.06		1253				X	X		
7 AOC20-1-35	74407.07		1259				X	X		
8 AOC20-1-40	74407.08		1313						X	
9 AOC20-1-45	74407.09		1321				X	X		
10 AOC20-1-50	74407.10		1330						X	
11 AOC20-1-55	74407.11		1332				X	X		
12 AOC20-1-60	74407.12		1338						X	
13 AOC20-1-65	74407.13		1345						X	
14 AOC20-1-70	74407.14		1351				X	X		
15 AOC20-1-75	74407.15	↓	1356	↓	↓		X	X		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

[X] NORMAL [ ] RUSH [ ] SAME DAY [ ] NEXT DAY [ ] 2 DAYS [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

[ ] HARD COPY
[ ] PDF
[ ] GEOTRACKER (GLOBAL ID) _____
[ ] OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	Signature:	Signature:
	Printed Name: P. Henderson	Printed Name:	Printed Name:
	Date: 09/16/14 Time: 1615	Date: Time:	Date: 09/16/14 Time: 1630
RECEIVED BY:	Signature:	Signature:	RECEIVED BY LABORATORY: AETC
	Printed Name: Shannon Pacheco	Printed Name:	Signature:
	Date: 09/16/14 Time: 1645	Date: Time:	Printed Name: Aetc
			Date: 09/16/14 Time: 1630

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

№ 88491

AETL JOB No. 74407 Page 2 of 2

COMPANY: Tetra Tech, Inc	PROJECT MANAGER: T. Villeneuve/M. Weinberger
COMPANY ADDRESS: 301 E Vanderbilt Way suite 450; San Bernardino, CA 92408	PHONE / FAX: 909 3811674
PROJECT NAME: Burbank Soils Inv	PROJECT #: 100-SBO-T3295.TM
SITE NAME AND ADDRESS:	PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	AOC20-1-80	74407.16	09/16/14	1401	Soil	1	
2	AOC20-1-85	74407.17		1406			
3	AOC20-1-90	74407.18		1416			
4	AOC20-1-95	74407.19		1423			
5	AOC20-1-100	74407.20		1434			
6	EB-091614-B	74407.21		0950	water	2	
7							
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

Total Cr SW6020	Hex Cr SW7199	HOLD
		X
X	X	
		X
		X
X	X	
X	X	

TEST INSTRUCTIONS & COMMENTS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	7	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

(X) NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	P. Henderson		C. Robillard
Date / Time:	09/16/14 1615		09/16/14 1630
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:			
Printed Name:	CAMILLION PALMER		Aten
Date / Time:	09/16/14 1615		09/16/14 1630

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: TeTra Tech

Project Name:

AETL Job Number: 74407

Date Received: 09/16/14 Received by: Antin

Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.2°C, No 2: ____, No 3: ____

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify):

How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	↓		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955.TM
Date Received 09/16/2014
Date Reported 09/24/2014

Job Number	Order Date	Client
74407	09/16/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 21 samples with the following specification on 09/16/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74407.21	EB-091614-B	09/16/2014	Aqueous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/23/2014	2	Normal	mg/L
7199 ^ MG/L	09/23/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74407.01	AOC20-1-5	09/16/2014	Soil	1
74407.04	AOC20-1-20	09/16/2014	Soil	1
74407.06	AOC20-1-30	09/16/2014	Soil	1
74407.07	AOC20-1-35	09/16/2014	Soil	1
74407.09	AOC20-1-45	09/16/2014	Soil	1
74407.11	AOC20-1-55	09/16/2014	Soil	1
74407.14	AOC20-1-70	09/16/2014	Soil	1
74407.15	AOC20-1-75	09/16/2014	Soil	1
74407.17	AOC20-1-85	09/16/2014	Soil	1
74407.20	AOC20-1-100	09/16/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/23/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/23/2014	2	Normal	mg/Kg
ASTM-D2216	09/23/2014	2	Normal	% wt

74407.02	AOC20-1-10	09/16/2014	Soil	1
74407.03	AOC20-1-15	09/16/2014	Soil	1
74407.05	AOC20-1-25	09/16/2014	Soil	1
74407.08	AOC20-1-40	09/16/2014	Soil	1
74407.10	AOC20-1-50	09/16/2014	Soil	1
74407.12	AOC20-1-60	09/16/2014	Soil	1

Continued

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Project ID: 100-SBO-T32955.TM
Date Received 09/16/2014
Date Reported 09/24/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74407	09/16/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74407.13	AOC20-1-65	09/16/2014	Soil	1
74407.16	AOC20-1-80	09/16/2014	Soil	1
74407.18	AOC20-1-90	09/16/2014	Soil	1
74407.19	AOC20-1-95	09/16/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/23/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Holding time of sample 74407.21 (EB-091614-B) was extended to 28 days by addition of ammonium sulfate buffer.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/18/2014				
Preparation Method			3050B				
Date Analyzed			09/19/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C3

Our Lab I.D.			74407.01	74407.04	74407.06	74407.07	74407.09
Client Sample I.D.			AOC20-1-5	AOC20-1-20	AOC20-1-30	AOC20-1-35	AOC20-1-45
Date Sampled			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	7.30	2.57	4.44	2.75	2.87

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C3

Our Lab I.D.			74407.11	74407.14	74407.15	74407.17	74407.20
Client Sample I.D.			AOC20-1-55	AOC20-1-70	AOC20-1-75	AOC20-1-85	AOC20-1-100
Date Sampled			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	2.37	3.27	4.51	3.77	4.18

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1

Our Lab I.D.			Method Blank	74407.01	74407.04	74407.06	74407.07
Client Sample I.D.				AOC20-1-5	AOC20-1-20	AOC20-1-30	AOC20-1-35
Date Sampled				09/16/2014	09/16/2014	09/16/2014	09/16/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1

Our Lab I.D.			74407.09	74407.11	74407.14	74407.15	74407.17
Client Sample I.D.			AOC20-1-45	AOC20-1-55	AOC20-1-70	AOC20-1-75	AOC20-1-85
Date Sampled			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

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Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1

Our Lab I.D.			**74407.20**				
Client Sample I.D.			AOC20-1-100				
Date Sampled			09/16/2014				
Date Prepared			09/18/2014				
Preparation Method			3060A				
Date Analyzed			09/18/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (VI)	0.10	0.10	ND				

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091714-1

Our Lab I.D.			Method Blank	74407.01	74407.04	74407.06	74407.07
Client Sample I.D.				AOC20-1-5	AOC20-1-20	AOC20-1-30	AOC20-1-35
Date Sampled				09/16/2014	09/16/2014	09/16/2014	09/16/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	5.40	4.70	4.30	2.20

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091714-1

Our Lab I.D.			74407.09	74407.11	74407.14	74407.15	74407.17
Client Sample I.D.			AOC20-1-45	AOC20-1-55	AOC20-1-70	AOC20-1-75	AOC20-1-85
Date Sampled			09/16/2014	09/16/2014	09/16/2014	09/16/2014	09/16/2014
Date Prepared			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	2.90	3.50	4.40	5.20	3.53

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091714-1

Our Lab I.D.			74407.20				
Client Sample I.D.			AOC20-1-100				
Date Sampled			09/16/2014				
Date Prepared			09/17/2014				
Preparation Method			ASTM-D2216				
Date Analyzed			09/18/2014				
Matrix			Soil				
Units			% wt				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Moisture Content	0.1	0.1	3.89				

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1

Our Lab I.D.			Method Blank	**74407.21**			
Client Sample I.D.				EB-091614-B			
Date Sampled				09/16/2014			
Date Prepared			09/19/2014	09/19/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/20/2014	09/20/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1

Our Lab I.D.			Method Blank	74407.21			
Client Sample I.D.				EB-091614-B			
Date Sampled				09/16/2014			
Date Prepared			09/18/2014	09/18/2014			
Preparation Method			7199	7199			
Date Analyzed			09/18/2014	09/18/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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QUALITY CONTROL RESULTS

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Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.00992	99.2	0.0100	0.00970	97.0	2.24	75-125	<15

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0102	102	0.0100	0.0101	101	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

Page: **14**

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1; Dup or Spiked Sample: 74406.01; LCS: Clean Water; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.809	80.9	1.00	0.775M	77.5	4.3	80-120	<20

QC Batch No: 091814-1; Dup or Spiked Sample: 74406.01; LCS: Clean Water; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	1.08	108	1.00	1.06	106	1.9	80-120	<20	

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Page: **15**

Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0918141C3; Dup or Spiked Sample: 74407.01; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/19/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	6.91	10.0	16.2	92.9	10.0	17.5	106	13.2	75-125	<15

QC Batch No: 0918141C3; Dup or Spiked Sample: 74407.01; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/19/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.960	96.0	1.00	0.980	98.1	2.16	75-125	<15	

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Page: **16**

Site

Burbank Metals

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1; Dup or Spiked Sample: 74407.01; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.268	107	0.250	0.270	108	<1	80-120	<20

QC Batch No: 091814-1; Dup or Spiked Sample: 74407.01; LCS: Clean Sand; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.213	85.2	0.250	0.219	87.6	2.8	80-120	<20	

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Site

Burbank Metals

Page: **17**

Project ID: 100-SBO-T32955.TM
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74407	09/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091714-1; Dup or Spiked Sample: 74407.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	5.40	5.10	5.7	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**18**
Date Received	**09/17/2014**
Date Reported	**09/29/2014**

Job Number	Order Date	Client
74423	09/17/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 12 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

№ 88453

AETL JOB No. 74423

Page 1 of 2

COMPANY: Tetra Tech, Inc
PROJECT MANAGER: T.Villeneuve/M.Weinberger
COMPANY ADDRESS: 301 E Vanderbilt Way Suite 450 San Bernardino CA 92408
PHONE / FAX: 909-381-1674
PROJECT NAME: Burbank Soils Inv.
PROJECT #: 100-SBO-T32955
SITE NAME AND ADDRESS:
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Total Chrome SW6020	Hex Chrome SW7199	HOLD	TEST INSTRUCTIONS & COMMENTS
1	AOC18-3-5	74423.01	09/17/14	1114	soil	1	N/A	X	X		
2	AOC18-3-10	74423.02	↓	1120	↓	↓	↓			X	
3	AOC18-3-15	74423.03		1126						X	
4	AOC18-3-20	74423.04		1130				X	X		
5	AOC18-3-25	74423.05		1135						X	
6	AOC18-3-30	74423.06		1139				X	X		
7	AOC18-3-35	74423.07		1143						X	
8	AOC18-3-40	74423.08		1149				X	X		
9	AOC18-3-45	74423.09		1155				X	X		
10	AOC18-3-50	74423.10		1200						X	
11	AOC18-3-55	74423.11		1209						X	
12	AOC18-3-60	74423.12		1216				X	X		
13	AOC18-3-65	74423.13		1220						X	
14	AOC18-3-70	74423.14		1226				X	X		
15	AOC18-3-75	74423.15	↓	1231	↓	↓	↓	X	X		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED	(Y) / N / NA
CUSTODY SEALS	Y / (N) / NA	SAMPLES INTACT	(Y) / N / NA
RECEIVED IN GOOD COND.	(Y) / N	SAMPLES ACCEPTED	(Y) / N

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) ______
☐ OTHER (PLEASE SPECIFY) ______

	1.	2.	3.
RELINQUISHED BY	SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature:	[signature]	(struck through)	[signature]
Printed Name:	D. McALISTER		Thomas Robinson
Date:	9-17-14		9-17-14
Time:	1705		1730
RECEIVED BY:	RECEIVED BY:	RECEIVED BY:	RECEIVED BY LABORATORY: AETL
Signature:	[signature]	(struck through)	[signature]
Printed Name:	Thomas Robinson		Artin
Date:	9-17-14		09/17/14
Time:	1705		1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

№ 88454

AETL JOB No. 74423

COMPANY: Tetra Tech, Inc.
PROJECT MANAGER: T. Villeneuve/M. Weinberger
COMPANY ADDRESS: 301 E Vanderbilt Way Suite 450, San Bernardino
PHONE: 909-381-1674
FAX:
PROJECT NAME: Burbank Soils Inv.
PROJECT #: 100-SBO-T32955
SITE NAME AND ADDRESS:
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	SW6020 Total Chrom	HEXchrom SW7199	HOLD								TEST INSTRUCTIONS & COMMENTS
1	AOC18-3-80	74423.16	09/17/14	1238	Soil	1	N/A			X								
2	AOC18-3-85	74423.17	↓	1244	↓	↓				X								
3	AOC18-3-90	74423.18		1250				X	X									
4	AOC18-3-95	74423.19		1255						X								
5	AOC18-3-100	74423.20		1259				X	X									
6	AOC18-3-55-DUP	74423.21		1210				X	X									
7	AOC18-3-95-DUP	74423.22		1256				X	X									
8	EB-091714-B	74423.23		0700	water	2		X	X									
9																		
10																		
11																		
12																		
13																		
14																		
15																		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	9	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) ______
☐ OTHER (PLEASE SPECIFY) ______

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: P. McAlister	Printed Name:	Printed Name: Thomas Kebasa
Date: 9-17-14 Time: 1205	Date: Time:	Date: 9-17-14 Time: 1730
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Thomas Kebasa	Printed Name:	Printed Name: Artin
Date: 9-17-14 Time: 1205	Date: Time:	Date: 09/17/14 Time: 1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: TetraTech

Project Name:

AETL Job Number: X4423

Date Received: 09/12/14 Received by: Austin

Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.1°C, No 2: _____, No 3: _____

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify): _____

How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/17/2014
Date Reported 09/29/2014

Job Number	Order Date	Client
74423	09/17/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 23 samples with the following specification on 09/17/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74423.23	EB-091714-B	09/17/2014	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/24/2014	2	Normal	mg/L
7199 ^ MG/L	09/24/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74423.01	AOC18-3-5	09/17/2014	Soil	1
74423.04	AOC18-3-20	09/17/2014	Soil	1
74423.06	AOC18-3-30	09/17/2014	Soil	1
74423.08	AOC18-3-40	09/17/2014	Soil	1
74423.09	AOC18-3-45	09/17/2014	Soil	1
74423.12	AOC18-3-60	09/17/2014	Soil	1
74423.14	AOC18-3-70	09/17/2014	Soil	1
74423.15	AOC18-3-75	09/17/2014	Soil	1
74423.18	AOC18-3-90	09/17/2014	Soil	1
74423.20	AOC18-3-100	09/17/2014	Soil	1
74423.21	AOC18-3-55-DUP	09/17/2014	Soil	1
74423.22	AOC18-3-95-DUP	09/17/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/24/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/24/2014	2	Normal	mg/Kg
ASTM-D2216	09/24/2014	2	Normal	% wt

74423.02	AOC18-3-10	09/17/2014	Soil	1
74423.03	AOC18-3-15	09/17/2014	Soil	1
74423.05	AOC18-3-25	09/17/2014	Soil	1
74423.07	AOC18-3-35	09/17/2014	Soil	1

Continued

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Ordered By

Tetra Tech, Inc. 301 E. Vanderbilt Way Suite 450 San Bernardino, CA 92408-3559	Project ID: 100-SBO-T32955 Date Received 09/17/2014 Date Reported 09/29/2014
Telephone: (909)381-1674 Attention: Michael Weinberger	

Job Number	Order Date	Client
74423	09/17/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74423.10	AOC18-3-50	09/17/2014	Soil	1
74423.11	AOC18-3-55	09/17/2014	Soil	1
74423.13	AOC18-3-65	09/17/2014	Soil	1
74423.16	AOC18-3-80	09/17/2014	Soil	1
74423.17	AOC18-3-85	09/17/2014	Soil	1
74423.19	AOC18-3-95	09/17/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/24/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/23/2014				
Preparation Method			3050B				
Date Analyzed			09/26/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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ANALYTICAL RESULTS

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **3**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C2

Our Lab I.D.			74423.01	74423.04	74423.06	74423.08	74423.09
Client Sample I.D.			AOC18-3-5	AOC18-3-20	AOC18-3-30	AOC18-3-40	AOC18-3-45
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	8.60	7.24	4.59	2.89	3.47

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C2

Our Lab I.D.			74423.12	74423.14	74423.15	74423.18	74423.20
Client Sample I.D.			AOC18-3-60	AOC18-3-70	AOC18-3-75	AOC18-3-90	AOC18-3-100
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	3.25	2.57	4.35	8.64	6.51

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C2

Our Lab I.D.			74423.21	74423.22			
Client Sample I.D.			AOC18-3-55-DUP	AOC18-3-95-DUP			
Date Sampled			09/17/2014	09/17/2014			
Date Prepared			09/23/2014	09/23/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/26/2014	09/26/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.350	1.000	3.31	4.18			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092214-1

Our Lab I.D.			Method Blank	74423.01	74423.04	74423.06	74423.08
Client Sample I.D.				AOC18-3-5	AOC18-3-20	AOC18-3-30	AOC18-3-40
Date Sampled				09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/22/2014	09/22/2014	09/22/2014	09/22/2014	09/22/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/22/2014	09/22/2014	09/22/2014	09/22/2014	09/22/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092214-1

Our Lab I.D.			74423.09	74423.12	74423.14	74423.15	74423.18
Client Sample I.D.			AOC18-3-45	AOC18-3-60	AOC18-3-70	AOC18-3-75	AOC18-3-90
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/22/2014	09/22/2014	09/22/2014	09/22/2014	09/22/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/22/2014	09/22/2014	09/22/2014	09/22/2014	09/22/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092214-1

Our Lab I.D.			74423.20	74423.21	74423.22		
Client Sample I.D.			AOC18-3-100	AOC18-3-55-DUP	AOC18-3-95-DUP		
Date Sampled			09/17/2014	09/17/2014	09/17/2014		
Date Prepared			09/22/2014	09/22/2014	09/22/2014		
Preparation Method			3060A	3060A	3060A		
Date Analyzed			09/22/2014	09/22/2014	09/22/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium (VI)	0.10	0.10	ND	ND	ND		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091814-1

Our Lab I.D.			Method Blank	74423.01	74423.04	74423.06	74423.08
Client Sample I.D.				AOC18-3-5	AOC18-3-20	AOC18-3-30	AOC18-3-40
Date Sampled				09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	5.50	5.00	3.90	2.80

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091814-1

Our Lab I.D.			74423.09	74423.12	74423.14	74423.15	74423.18
Client Sample I.D.			AOC18-3-45	AOC18-3-60	AOC18-3-70	AOC18-3-75	AOC18-3-90
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	11.5	3.70	2.90	3.30	1.50

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091814-1

Our Lab I.D.			74423.20	74423.21	74423.22		
Client Sample I.D.			AOC18-3-100	AOC18-3-55-DUP	AOC18-3-95-DUP		
Date Sampled			09/17/2014	09/17/2014	09/17/2014		
Date Prepared			09/18/2014	09/18/2014	09/18/2014		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/19/2014	09/19/2014	09/19/2014		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	2.58	2.94	3.53		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1

Our Lab I.D.			Method Blank	74423.23			
Client Sample I.D.				EB-091714-B			
Date Sampled				09/17/2014			
Date Prepared			09/19/2014	09/19/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/20/2014	09/20/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1

Our Lab I.D.			Method Blank	**74423.23**			
Client Sample I.D.				EB-091714-B			
Date Sampled				09/17/2014			
Date Prepared			09/18/2014	09/18/2014			
Preparation Method			7199	7199			
Date Analyzed			09/18/2014	09/18/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	101	0.0100	0.0100	98.8	2.20	75-125	<15

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	102	0.0100	0.0100	101	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.943	94.3	1.00	0.882	88.2	6.7	80-120	<20

QC Batch No: 091814-1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	1.08	108	1.00	1.06	106	1.9	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C2; Dup or Spiked Sample: 74423.01; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/26/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	8.13	10.0	17.9	97.7	10.0	18.1	99.7	2.03	75-125	<15

QC Batch No: 0923141C2; Dup or Spiked Sample: 74423.01; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/26/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.990	99.1	1.00	0.980	98.4	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092214-1; Dup or Spiked Sample: 74423.01; LCS: Clean Sand; QC Prepared: 09/22/2014; QC Analyzed: 09/22/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.275	110	0.250	0.270	108	1.8	80-120	<20

QC Batch No: 092214-1; Dup or Spiked Sample: 74423.01; LCS: Clean Sand; QC Prepared: 09/22/2014; QC Analyzed: 09/22/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.240	96.0	0.250	0.255	102	6.1	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74423	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091814-1; Dup or Spiked Sample: 74423.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	5.50	6.20	12.0	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc. **301 E. Vanderbilt Way Suite 450** **San Bernardino, CA 92408-3559**

Number of Pages	**31**
Date Received	**09/17/2014**
Date Reported	**09/29/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74424	09/17/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 24 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

№ 88461

AETL JOB No. 74424

COMPANY: TETRA TECH	PROJECT MANAGER: M. WEINBERGER
COMPANY ADDRESS:	PHONE / FAX:
PROJECT NAME: BURBANK METALS	PROJECT #: 100-5B0-T32955
SITE NAME AND ADDRESS:	PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 - Cr	7199 - Cr6+	HOLD								TEST INSTRUCTIONS & COMMENTS
1	EB-091714-A	74424.01	9-17-14	1005	WATER	2-POLY	N/A	X	X									
2	AOC18-1-5	74424.02		0915	SOIL	1-BRASS RING				X								
3	AOC18-1-10	74424.03		0917				X	X									
4	AOC18-1-15	74424.04		0928						X								
5	AOC18-1-20	74424.05		0933				X	X									
6	AOC18-1-25	74424.06		0938						X								
7	AOC18-1-30	74424.07		0945				X	X									
8	AOC18-1-35	74424.08		0948		↓				X								
9	AOC18-1-40	74424.09		0952		1-JAR		X	X									
10	AOC18-1-40-DUP	74424.10		0955		1-JAR		X	X									
11	AOC18-1-45	74424.11		1000		1-BRASS RING				X								
12	AOC18-1-50	74424.12		1004				X	X									
13	AOC18-1-55	74424.13		1009						X								
14	AOC18-1-60	74424.14		1012				X	X									
15	AOC18-1-65	74424.15	↓	1018	↓	↓	↓			X								

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	16	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	L MAISTER		Thomas Robinson
Date / Time:	9-17-14 / 1705	/	9-17-14 / 1730
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:			
Printed Name:	Thomas Robinson		Jean Claude
Date / Time:	9-17-14 / 1705	/	9/17/14 / 1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

№ 88460

AETL JOB No. 74424

COMPANY: TETRATECH	PROJECT MANAGER: M. WEINBERGER
COMPANY ADDRESS:	PHONE: / FAX:
PROJECT NAME: BURBANK METALS	PROJECT #: 100-SBO-T32955
SITE NAME AND ADDRESS:	PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 - Cr	7199 - Cr 6+	1402	ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
1	AOC18-1-70	74424.16	~~9-17-14~~	1022	SOIL	1-BRASS RING	N/A	X	X			
2	AOC18-1-75	74424.17	9-17-14	1030						X		
3	AOC18-1-80	74424.18		1034				X	X			
4	AOC18-1-85	74424.19		1040						X		
5	AOC18-1-95	74424.20		1100		1-JAR		X	X			
6	AOC18-1-95-DUP	74424.21		1101		1-JAR		X	X			
7	AOC18-1-100	74424.22		1112		1-JAR		X	X			
8	AOC19-1-5	74424.23		1405		1-BRASS RING		X	X			
9	AOC19-1-10	74424.24		1407		1-BRASS RING				X		
10	AOC19-1-15	74424.25		1409				X	X			
11	AOC19-1-20	74424.26		1412						X		
12	AOC19-1-25	74424.27		1415				X	X			
13	AOC19-1-30	74424.28		1417						X		
14	AOC19-1-35	74424.29		1420		1-JAR		X	X			
15	AOC19-1-35-DUP	74424.30		1421		1-JAR		X	X			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y / N / NA)	
CUSTODY SEALS (Y / N / NA)		SAMPLES INTACT (Y / N / NA)	
RECEIVED IN GOOD COND. (Y / N)		SAMPLES ACCEPTED (Y / N)	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	D. MCMASTER		THOMAS REBARA
Date / Time:	9-17-14 1705		9-17-14 1730
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:			
Printed Name:	THOMAS RODRIGUEZ		Jean Lande
Date / Time:	9-17-14 1705		09/17/14 1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

№ 88457

AETL JOB No. 74424

COMPANY: TETRATECH
PROJECT MANAGER: M. WEINBERGER
COMPANY ADDRESS:
PHONE:
FAX:
PROJECT NAME: BURBANK METALS
PROJECT #: 100-SBO-T32955
SITE NAME AND ADDRESS:
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020-Cr	7199-Cr6+	HOLD	TEST INSTRUCTIONS & COMMENTS
1	AOC19-1-40	74424.31	9-17-14	1440	SOIL	1-BRASS RING	N/A			X	
2	AOC19-1-45	74424.32		1444				X	X		
3	AOC19-1-50	74424.33		1450						X	
4	AOC19-1-55	74424.34		1452				X	X		
5	AOC19-1-60	74424.35		1455						X	
6	AOC19-1-65	74424.36		1500		1-JAR		X	X		
7	AOC19-1-70	74424.37		1505		1-BRASS RING				X	
8	AOC19-1-65-DUP	74424.38		1501		1-JAR		X	X		
9	AOC19-1-75	74424.39		1507		1-BRASS RING				X	
10	AOC19-1-80	74424.40		1509		1-BRASS RING		X	X		
11	AOC19-1-95	74424.41		1546		1-BRASS RING		X	X		
12	AOC19-1-100	74424.42		1548		1-JAR		X	X		
13											
14											
15											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	12	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

[X] NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

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☐ PDF
☐ GEOTRACKER (GLOBAL ID) ____
☐ OTHER (PLEASE SPECIFY) ____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: P. MCALISTER	Printed Name:	Printed Name: Thomas Robinson
Date: 9-17-14 Time: 1205	Date: Time:	Date: 9-17-14 Time: 1730
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Thomas Robinson	Printed Name:	Printed Name: Sean Clark
Date: 9-17-14 Time: 1205	Date: Time:	Date: 09/17/14 Time: 1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Tetra Tech
Project Name: Burbank metals
AETL Job Number: 74424
Date Received: 02/17/14 Received by: Jean Claude
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.3°C, No 2: ____, No 3: ____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☒ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): Brass sleeves
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
☒ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	✓		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/17/2014
Date Reported 09/29/2014

Job Number	Order Date	Client
74424	09/17/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 42 samples with the following specification on 09/17/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74424.01	EB-091714-A	09/17/2014	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/24/2014	2	Normal	mg/L
7199 ^ MG/L	09/24/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74424.02	AOC18-1-5	09/17/2014	Soil	1
74424.04	AOC18-1-15	09/17/2014	Soil	1
74424.06	AOC18-1-25	09/17/2014	Soil	1
74424.08	AOC18-1-35	09/17/2014	Soil	1
74424.11	AOC18-1-45	09/17/2014	Soil	1
74424.13	AOC18-1-55	09/17/2014	Soil	1
74424.15	AOC18-1-65	09/17/2014	Soil	1
74424.17	AOC18-1-75	09/17/2014	Soil	1
74424.19	AOC18-1-85	09/17/2014	Soil	1
74424.24	AOC19-1-10	09/17/2014	Soil	1
74424.26	AOC19-1-20	09/17/2014	Soil	1
74424.28	AOC19-1-30	09/17/2014	Soil	1
74424.31	AOC19-1-40	09/17/2014	Soil	1
74424.33	AOC19-1-50	09/17/2014	Soil	1
74424.35	AOC19-1-60	09/17/2014	Soil	1
74424.37	AOC19-1-70	09/17/2014	Soil	1
74424.39	AOC19-1-75	09/17/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/24/2014	2	Normal	--

74424.03	AOC18-1-10	09/17/2014	Soil	1

Continued

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Project ID: 100-SBO-T32955
Date Received 09/17/2014
Date Reported 09/29/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74424	09/17/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74424.07	AOC18-1-30	09/17/2014	Soil	1
74424.09	AOC18-1-40	09/17/2014	Soil	1
74424.10	AOC18-1-40-DUP	09/17/2014	Soil	1
74424.12	AOC18-1-50	09/17/2014	Soil	1
74424.14	AOC18-1-60	09/17/2014	Soil	1
74424.16	AOC18-1-70	09/17/2014	Soil	1
74424.18	AOC18-1-80	09/17/2014	Soil	1
74424.20	AOC18-1-95	09/17/2014	Soil	1
74424.21	AOC18-1-95-DUP	09/17/2014	Soil	1
74424.22	AOC18-1-100	09/17/2014	Soil	1
74424.23	AOC19-1-5	09/17/2014	Soil	1
74424.25	AOC19-1-15	09/17/2014	Soil	1
74424.27	AOC19-1-25	09/17/2014	Soil	1
74424.29	AOC19-1-35	09/17/2014	Soil	1
74424.30	AOC19-1-35-DUP	09/17/2014	Soil	1
74424.32	AOC19-1-45	09/17/2014	Soil	1
74424.34	AOC19-1-55	09/17/2014	Soil	1
74424.36	AOC19-1-65	09/17/2014	Soil	1
74424.38	AOC19-1-65-DUP	09/17/2014	Soil	1
74424.40	AOC19-1-80	09/17/2014	Soil	1
74424.41	AOC19-1-95	09/17/2014	Soil	1
74424.42	AOC19-1-100	09/17/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ BOU-CR	09/24/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/24/2014	2	Normal	mg/Kg
ASTM-D2216	09/24/2014	2	Normal	% wt

74424.05	AOC18-1-20	09/17/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ BOU-CR	09/24/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/24/2014	2	Normal	mg/Kg

Continued

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301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/17/2014
Date Reported 09/29/2014

Job Number	Order Date	Client
74424	09/17/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74424.05 AOC18-1-20 09/17/2014 Soil 1

Method ^ Submethod	Req Date	Priority	TAT	Units
ASTM-D2216	09/24/2014	2	Normal	% wt
EDF	09/24/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

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San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1

Our Lab I.D.			Method Blank	**74424.01**			
Client Sample I.D.				EB-091714-A			
Date Sampled				09/17/2014			
Date Prepared			09/19/2014	09/19/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/20/2014	09/20/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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ANALYTICAL RESULTS

Ordered By

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San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

Page: **3**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1

Our Lab I.D.			Method Blank	**74424.01**			
Client Sample I.D.				EB-091714-A			
Date Sampled				09/17/2014			
Date Prepared			09/18/2014	09/18/2014			
Preparation Method			7199	7199			
Date Analyzed			09/18/2014	09/18/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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ANALYTICAL RESULTS

Ordered By

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **4**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/23/2014				
Preparation Method			3050B				
Date Analyzed			09/26/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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ANALYTICAL RESULTS

Ordered By

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San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **5**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C3

Our Lab I.D.			74424.03	74424.05	74424.07	74424.09	74424.10
Client Sample I.D.			AOC18-1-10	AOC18-1-20	AOC18-1-30	AOC18-1-40	AOC18-1-40-DUP
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	3.11	2.10	2.28	3.22	2.99

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C3

Our Lab I.D.			74424.12	74424.14	74424.16	74424.18	74424.20
Client Sample I.D.			AOC18-1-50	AOC18-1-60	AOC18-1-70	AOC18-1-80	AOC18-1-95
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	3.46	2.35	4.58	4.24	6.61

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C3

Our Lab I.D.			74424.21	74424.22			
Client Sample I.D.			AOC18-1-95-DUP	AOC18-1-100			
Date Sampled			09/17/2014	09/17/2014			
Date Prepared			09/23/2014	09/23/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/26/2014	09/26/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.350	1.000	8.41	5.37			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/23/2014				
Preparation Method			3050B				
Date Analyzed			09/26/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C4

Our Lab I.D.			74424.23	74424.25	74424.27	74424.29	74424.30
Client Sample I.D.			AOC19-1-5	AOC19-1-15	AOC19-1-25	AOC19-1-35	AOC19-1-35-DUP
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	8.94	2.06	3.38	2.78	3.01

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C4

Our Lab I.D.			74424.32	74424.34	74424.36	74424.38	74424.40
Client Sample I.D.			AOC19-1-45	AOC19-1-55	AOC19-1-65	AOC19-1-65-DUP	AOC19-1-80
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	4.51	6.18	5.21	5.19	2.94

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C4

Our Lab I.D.			74424.41	74424.42			
Client Sample I.D.			AOC19-1-95	AOC19-1-100			
Date Sampled			09/17/2014	09/17/2014			
Date Prepared			09/23/2014	09/23/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/26/2014	09/26/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.350	1.000	4.66	6.83			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			Method Blank	74424.03	74424.05	74424.07	74424.09
Client Sample I.D.				AOC18-1-10	AOC18-1-20	AOC18-1-30	AOC18-1-40
Date Sampled				09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			74424.10	74424.12	74424.14	74424.16	74424.18
Client Sample I.D.			AOC18-1-40-DUP	AOC18-1-50	AOC18-1-60	AOC18-1-70	AOC18-1-80
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			74424.20	74424.21	74424.22	74424.23	74424.25
Client Sample I.D.			AOC18-1-95	AOC18-1-95-DUP	AOC18-1-100	AOC19-1-5	AOC19-1-15
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			74424.27				
Client Sample I.D.			AOC19-1-25				
Date Sampled			09/17/2014				
Date Prepared			09/23/2014				
Preparation Method			3060A				
Date Analyzed			09/23/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (VI)	0.10	0.10	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-2

Our Lab I.D.			Method Blank	74424.29	74424.30	74424.32	74424.34
Client Sample I.D.				AOC19-1-35	AOC19-1-35-DUP	AOC19-1-45	AOC19-1-55
Date Sampled				09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-2

Our Lab I.D.			74424.36	74424.38	74424.40	74424.41	74424.42
Client Sample I.D.			AOC19-1-65	AOC19-1-65-DUP	AOC19-1-80	AOC19-1-95	AOC19-1-100
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091814-2

Our Lab I.D.			Method Blank	74424.03	74424.05	74424.07	74424.09
Client Sample I.D.				AOC18-1-10	AOC18-1-20	AOC18-1-30	AOC18-1-40
Date Sampled				09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	1.60	2.20	2.10	2.90

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091814-2

Our Lab I.D.			74424.10	74424.12	74424.14	74424.16	74424.18
Client Sample I.D.			AOC18-1-40-DUP	AOC18-1-50	AOC18-1-60	AOC18-1-70	AOC18-1-80
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	3.30	3.60	1.70	3.40	2.90

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091814-2

Our Lab I.D.			74424.20	74424.21	74424.22	74424.23	74424.25
Client Sample I.D.			AOC18-1-95	AOC18-1-95-DUP	AOC18-1-100	AOC19-1-5	AOC19-1-15
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	2.39	2.53	3.83	6.49	1.18

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ANALYTICAL RESULTS

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San Bernardino, CA 92408-3559

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Attn: Michael Weinberger
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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091814-2

Our Lab I.D.			74424.27				
Client Sample I.D.			AOC19-1-25				
Date Sampled			09/17/2014				
Date Prepared			09/18/2014				
Preparation Method			ASTM-D2216				
Date Analyzed			09/19/2014				
Matrix			Soil				
Units			% wt				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Moisture Content	0.1	0.1	1.80				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091814-3

Our Lab I.D.			Method Blank	74424.29	74424.30	74424.32	74424.34
Client Sample I.D.				AOC19-1-35	AOC19-1-35-DUP	AOC19-1-45	AOC19-1-55
Date Sampled				09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	1.90	1.90	4.00	2.90

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091814-3

Our Lab I.D.			74424.36	74424.38	74424.40	74424.41	74424.42
Client Sample I.D.			AOC19-1-65	AOC19-1-65-DUP	AOC19-1-80	AOC19-1-95	AOC19-1-100
Date Sampled			09/17/2014	09/17/2014	09/17/2014	09/17/2014	09/17/2014
Date Prepared			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	2.60	2.90	3.50	3.70	3.26

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1; Dup or Spiked Sample: C74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0101	101	0.0100	0.00988	98.8	2.2	75-125	<15

QC Batch No: 0919141C1; Dup or Spiked Sample: C74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0102	102	0.0100	0.0101	101	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1; Dup or Spiked Sample: A74423.23; LCS: Clean Water; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.943	94.3	1.00	0.882	88.2	6.7	80-120	<20

QC Batch No: 091814-1; Dup or Spiked Sample: A74423.23; LCS: Clean Water; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	1.08	108	1.00	1.06	106	1.9	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C3; Dup or Spiked Sample: H74424.03; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/26/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	3.06	10.0	12.4	93.4	10.0	12.4	93.4	<1	75-125	<15

QC Batch No: 0923141C3; Dup or Spiked Sample: H74424.03; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/26/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	1.11	111	1.00	0.960	96.2	14.3	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C4; Dup or Spiked Sample: I74424.23; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/26/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	8.36	10.0	17.6	92.4	10.0	17.7	93.4	1.08	75-125	<15

QC Batch No: 0923141C4; Dup or Spiked Sample: I74424.23; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/26/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.960	96.3	1.00	0.970	96.7	<1	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1; Dup or Spiked Sample: 74424.03; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/23/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.231	92.5	0.250	0.246	98.3	6.1	80-120	<20

QC Batch No: 092314-1; Dup or Spiked Sample: 74424.03; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/23/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.219	87.6	0.250	0.242	96.8	10.0	80-120	<20	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-2; Dup or Spiked Sample: 74424.25; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/23/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.233	93.3	0.250	0.238	95.0	1.8	80-120	<20

QC Batch No: 092314-2; Dup or Spiked Sample: 74424.25; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/23/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.265	106	0.250	0.242	96.8	9.1	80-120	<20	

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091814-2; Dup or Spiked Sample: D74424.03; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	1.60	1.60	<1	<20						

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74424	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091814-3; Dup or Spiked Sample: E74424.29; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	1.90	1.70	11.1	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Number of Pages	**19**
Date Received	**09/18/2014**
Date Reported	**09/29/2014**

Job Number	Order Date	Client
74438	09/18/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 12 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

№ 88459

AETL JOB No. 74438

COMPANY: TETRATECH	PROJECT MANAGER: M. WEINBERGER
COMPANY ADDRESS:	PHONE: / FAX:
PROJECT NAME: BURBANK MEDIUS	PROJECT #: 1068BO-T32955
SITE NAME AND ADDRESS:	PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 - Cr	7199 - Cr, 6+	HOLD	TEST INSTRUCTIONS & COMMENTS
1	EB-091814-A	74438.01	9-18-14	0940	WATER	2-POLY	N/A	X	X		
2	AOC19-2-5	74438.02		1025	SOIL	1-BRASS RING				X	
3	AOC19-2-10	74438.03		1030				X	X		
4	AOC19-2-15	74438.04		1035						X	
5	AOC19-2-20	74438.05		1040				X	X		
6	AOC19-2-25	74438.06		1050						X	
7	AOC19-2-30	74438.07		1056		1-JAR		X	X		
8	AOC19-2-30-DUP	74438.08		1057		1-JAR		X	X		
9	AOC19-2-35	74438.09		1100		1-BRASS RING				X	
10	AOC19-2-40	74438.10		1105				X	X		
11	AOC19-2-45	74438.11		1112						X	
12	AOC19-2-50	74438.12		1115				X	X		
13	AOC19-2-55	74438.13		1120						X	
14	AOC19-2-60	74438.14		1125				X	X		
15	AOC19-2-65	74438.15		1130						X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	16	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	Signature:	Signature:
	Printed Name: T. Henderson	Printed Name:	Printed Name: Sanjay P
	Date: 9/18/14 Time: 1645	Date: Time:	Date: 9/18/14 Time: 1715
RECEIVED BY:	Signature:	Signature:	Signature:
	Printed Name: Sanjay P	Printed Name:	Printed Name:
	Date: 9/18/14 Time: 1645	Date: Time:	Date: 9/18/14 Time: 1715
			RECEIVED BY LABORATORY: AETL

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

№ 88458

AETL JOB No. 74438

COMPANY: TETRATECH	PROJECT MANAGER: M. WEINBERGER
COMPANY ADDRESS:	PHONE:
	FAX:
PROJECT NAME: BURBANK METALS	PROJECT #: 100-SBU-T32955
SITE NAME AND ADDRESS:	PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: 6020-Cr	7199-Cr6+	HOLD	TEST INSTRUCTIONS & COMMENTS
1	AOC19-2-70	74438.16	9-18-14	1135	SOIL	1-BRASS RING	N/A	X	X		
2	AOC19-2-75	74438.17		1140		1-BRASS RING				X	
3	AOC19-2-85	74438.18		1156		1-JAR		X	X		
4	AOC19-2-85-DUP	74438.19		1157		1-JAR		X	X		
5	AOC19-2-90	74438.20		1201		1-BRASS RING				X	
6	AOC19-2-95	74438.21		1205		1-BRASS RING		X	X		
7	AOC19-2-100	74438.22		1212		1-JAR		X	X		
8											
9											
10											
11											
12											
13											
14											
15											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	7	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	Signature:	Signature:
	Printed Name: T. Henderson	Printed Name:	Printed Name: Samples
	Date: 9/18/14 Time: 1645	Date: Time:	Date: 9/18/14 Time: 1715
RECEIVED BY:	Signature:	Signature:	Signature:
	Printed Name: Samples	Printed Name:	Printed Name: Leon Lander
	Date: 9/18/14 Time:	Date: Time:	Date: 9/18/14 Time: 1715

RECEIVED BY LABORATORY: 3. AETL

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Tetra Tech

Project Name: Burbank metals

AETL Job Number: 74438

Date Received: 09/13/14 Received by: Sean Sauder

Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.2°, No 2: 3.3°, No 3:

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☒ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): Brass Sleeves

How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
☒ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified:
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	↓		

Explain all "No" answers for above questions:

EB was also preserved in lab - KQ

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Project ID: 100-SBO-T32955
Date Received 09/18/2014
Date Reported 09/29/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74438	09/18/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 22 samples with the following specification on 09/18/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74438.01	EB-091814-A	09/18/2014	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/25/2014	2	Normal	mg/L
7199 ^ MG/L	09/25/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74438.02	AOC19-2-5	09/18/2014	Soil	1
74438.04	AOC19-2-15	09/18/2014	Soil	1
74438.06	AOC19-2-25	09/18/2014	Soil	1
74438.09	AOC19-2-35	09/18/2014	Soil	1
74438.11	AOC19-2-45	09/18/2014	Soil	1
74438.13	AOC19-2-55	09/18/2014	Soil	1
74438.15	AOC19-2-65	09/18/2014	Soil	1
74438.17	AOC19-2-75	09/18/2014	Soil	1
74438.20	AOC19-2-90	09/18/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/25/2014	2	Normal	--

74438.03	AOC19-2-10	09/18/2014	Soil	1
74438.05	AOC19-2-20	09/18/2014	Soil	1
74438.07	AOC19-2-30	09/18/2014	Soil	1
74438.08	AOC19-2-30-DUP	09/18/2014	Soil	1
74438.10	AOC19-2-40	09/18/2014	Soil	1
74438.12	AOC19-2-50	09/18/2014	Soil	1
74438.14	AOC19-2-60	09/18/2014	Soil	1
74438.16	AOC19-2-70	09/18/2014	Soil	1
74438.18	AOC19-2-85	09/18/2014	Soil	1

Continued

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Telephone: (909)381-1674 Attention: Michael Weinberger	

Job Number	Order Date	Client
74438	09/18/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74438.19	AOC19-2-85-DUP	09/18/2014	Soil	1
74438.21	AOC19-2-95	09/18/2014	Soil	1
74438.22	AOC19-2-100	09/18/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ BOU-CR	09/25/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/25/2014	2	Normal	mg/Kg
ASTM-D2216	09/25/2014	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1

Our Lab I.D.			Method Blank	**74438.01**			
Client Sample I.D.				EB-091814-A			
Date Sampled				09/18/2014			
Date Prepared			09/19/2014	09/19/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/20/2014	09/20/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Site

Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1

Our Lab I.D.			Method Blank	**74438.01**			
Client Sample I.D.				EB-091814-A			
Date Sampled				09/18/2014			
Date Prepared			09/18/2014	09/18/2014			
Preparation Method			7199	7199			
Date Analyzed			09/18/2014	09/18/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/23/2014				
Preparation Method			3050B				
Date Analyzed			09/26/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C5

Our Lab I.D.			74438.03	74438.05	74438.07	74438.08	74438.10
Client Sample I.D.			AOC19-2-10	AOC19-2-20	AOC19-2-30	AOC19-2-30-DUP	AOC19-2-40
Date Sampled			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	4.83	3.13	4.87	2.85	5.63

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C5

Our Lab I.D.			74438.12	74438.14	74438.16	74438.18	74438.19
Client Sample I.D.			AOC19-2-50	AOC19-2-60	AOC19-2-70	AOC19-2-85	AOC19-2-85-DUP
Date Sampled			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	4.29	4.28	11.3	9.52	6.17

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C5

Our Lab I.D.			74438.21				
Client Sample I.D.			AOC19-2-95				
Date Sampled			09/18/2014				
Date Prepared			09/23/2014				
Preparation Method			3050B				
Date Analyzed			09/26/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	21.6				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C5

Our Lab I.D.			74438.22				
Client Sample I.D.			AOC19-2-100				
Date Sampled			09/18/2014				
Date Prepared			09/23/2014				
Preparation Method			3050B				
Date Analyzed			09/26/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	1.750	5	111				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			Method Blank	74438.03	74438.05	74438.07	74438.08
Client Sample I.D.				AOC19-2-10	AOC19-2-20	AOC19-2-30	AOC19-2-30-DUP
Date Sampled				09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			74438.10	74438.12	74438.14	74438.16	74438.18
Client Sample I.D.			AOC19-2-40	AOC19-2-50	AOC19-2-60	AOC19-2-70	AOC19-2-85
Date Sampled			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			74438.19	74438.21	74438.22		
Client Sample I.D.			AOC19-2-85-DUP	AOC19-2-95	AOC19-2-100		
Date Sampled			09/18/2014	09/18/2014	09/18/2014		
Date Prepared			09/23/2014	09/23/2014	09/23/2014		
Preparation Method			3060A	3060A	3060A		
Date Analyzed			09/23/2014	09/23/2014	09/23/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium (VI)	0.10	0.10	ND	ND	ND		

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091914-1

Our Lab I.D.			Method Blank	74438.03	74438.05	74438.07	74438.08
Client Sample I.D.				AOC19-2-10	AOC19-2-20	AOC19-2-30	AOC19-2-30-DUP
Date Sampled				09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	3.90	1.80	2.30	2.10

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091914-1

Our Lab I.D.			74438.10	74438.12	74438.14	74438.16	74438.18
Client Sample I.D.			AOC19-2-40	AOC19-2-50	AOC19-2-60	AOC19-2-70	AOC19-2-85
Date Sampled			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	3.20	2.10	2.40	2.90	1.51

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **14**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091914-1

Our Lab I.D.			74438.19	74438.21	74438.22		
Client Sample I.D.			AOC19-2-85-DUP	AOC19-2-95	AOC19-2-100		
Date Sampled			09/18/2014	09/18/2014	09/18/2014		
Date Prepared			09/19/2014	09/19/2014	09/19/2014		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/19/2014	09/19/2014	09/19/2014		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	1.59	2.00	1.40		

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QUALITY CONTROL RESULTS

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Page: **15**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0101	101	0.0100	0.00988	98.8	2.2	75-125	<15

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0102	102	0.0100	0.0101	101	<1	75-125	<15	

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Page: **16**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1; Dup or Spiked Sample: 74438.01; LCS: Clean Water; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.960	96.0	1.00	0.959	95.9	<1	80-120	<20

QC Batch No: 091814-1; Dup or Spiked Sample: 74438.01; LCS: Clean Water; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.860	86.0	1.00	1.08	108	22.7	80-120	<20	

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Page: **17**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C5; Dup or Spiked Sample: 74438.03; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/26/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	4.64	10.0	14.0	93.6	10.0	14.8	102	8.59	75-125	<15

QC Batch No: 0923141C5; Dup or Spiked Sample: 74438.03; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/26/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.910	91.1	1.00	0.930	92.7	1.74	75-125	<15	

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Attn: Michael Weinberger
Page: **18**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1; Dup or Spiked Sample: 74438.03; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/23/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.270	108	0.250	0.250	100	7.7	80-120	<20

QC Batch No: 092314-1; Dup or Spiked Sample: 74438.03; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/23/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.263	105	0.250	0.260	104	<1	80-120	<20	

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Page: **19**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74438	09/18/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091914-1; Dup or Spiked Sample: 74438.03; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	3.90	4.10	5.0	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

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301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Number of Pages	**20**
Date Received	**09/18/2014**
Date Reported	**09/29/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74439	09/18/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 15 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

№ 88978

AETL JOB No. 74439 Page 1 of 2

COMPANY	Tetra Tech, Inc
PROJECT MANAGER	T. Villeneuve/M. Weinberger
COMPANY ADDRESS	301 E. Vanderbilt Way, Suite 450, San Bernardino CA
PHONE / FAX	909 381 1674
PROJECT NAME	Burbank Soils Inv.
PROJECT #	100-SBO-T3285
SITE NAME AND ADDRESS	
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: Total Chromium 6020	Hex Chrom 7199	HOLD	TEST INSTRUCTIONS & COMMENTS
1	AOC17-2-5	74439.01	09/18/14	0837	Soil	1	N/A	X	X		
2	AOC17-2-10	74439.02		0843						X	
3	AOC17-2-15	74439.03		0849						X	
4	AOC17-2-20	74439.04		0856				X	X		
5	AOC17-2-25	74439.05		0908				X	X		
6	AOC17-2-30	74439.06		0912						X	
7	AOC17-2-35	74439.07		0926						X	
8	AOC17-2-40	74439.08		0930				X	X		
9	AOC17-2-45	74439.09		0937				X	X		
10	AOC17-2-50	74439.10		0943						X	
11	AOC17-2-55	74439.11		0953				X	X		
12	AOC17-2-60	74439.12		0958						X	
13	AOC17-2-65	74439.13		1003						X	
14	AOC17-2-70	74439.14		1013				X	X		
15	AOC17-2-75	74439.15		1022						X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☐ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY:	SAMPLER:		
Signature:			
Printed Name:	P Henderson		Sergio P
Date:	9/18/14		9/18/14
Time:	1645		1715
RECEIVED BY:	1.	2.	3.
			LABORATORY: AETL
Signature:			
Printed Name:	Sergio P		Jean Lande
Date:	9/18/14		09/18/14
Time:	1615		1715

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

№ 88979

AETL JOB No. 74439

Page 2 of 2

COMPANY	Tetra Tech, Inc.
PROJECT MANAGER	T. Villeneuve/M. Wamberger
COMPANY ADDRESS	301 E. Vanderbilt Way, Suite 450 San Bernardino, CA 92408
PHONE / FAX	909-381-1674
PROJECT NAME	Burbank-Soils Inv
PROJECT #	100-SBO-T32955
SITE NAME AND ADDRESS	
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Total Chromium 6020	Hex Chrom 7199	HOLD	TEST INSTRUCTIONS & COMMENTS
1	AOC17-2-80	74439.16	09/18/14	1029	Soil	1	N/A	X	X		
2	AOC17-2-85	74439.17		1038						X	
3	AOC17-2-90	74439.18		1044				X	X		
4	AOC17-2-95	74439.19		1055						X	
5	AOC17-2-100	74439.20		1059				X	X		
6	AOC17-2-100-DUP	74439.21		1100				X	X		
7	FB-091814-B	74439.22		0700	Water	2		X	X		
8	AOC17-1-5	74439.23		1549	Soil	1				X	
9	AOC17-1-10	74439.24		1555				X	X		
10	AOC17-1-15	74439.25		1600				X	X		
11	AOC17-1-20	74439.26		1605						X	
12	AOC17-1-25	74439.27		1619						X	
13	AOC17-1-30	74439.28		1630				X	X		
14	AOC17-1-35	74439.29		1636						X	
15	AOC17-1-40	74439.30		1640				X	X		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	16	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☐ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	Signature:	Signature:
	Printed Name: S. Henderson	Printed Name:	Printed Name: Sarah P
	Date: 09/18/14 Time: 1645	Date: Time:	Date: 9/18/14 Time: 1715
RECEIVED BY:	Signature:	Signature:	RECEIVED BY LABORATORY: AETL
	Printed Name: Sarah P	Printed Name:	Signature:
	Date: 9/18/14 Time: 1615	Date: Time:	Printed Name: Sean Claude
			Date: 09/19/14 Time: 1715

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Tetra Tech
Project Name: Burbank metals
AETL Job Number: 74438 & 74439
Date Received: 09/12/14 Received by: Sean Saude
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.2°C, No 2: 3.3°C, No 3:
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☒ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): Brass Sleeves
How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
☒ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	↓		

Explain all "No" answers for above questions:

the EB has been preserved in lab for the CR (2)

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San Bernardino, CA 92408-3559

Project ID: 100-SBO-T32955
Date Received 09/18/2014
Date Reported 09/29/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74439	09/18/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 30 samples with the following specification on 09/18/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74439.22	EB-091814-B	09/18/2014	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/25/2014	2	Normal	mg/L
7199 ^ MG/L	09/25/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74439.01	AOC17-2-5	09/18/2014	Soil	1
74439.04	AOC17-2-20	09/18/2014	Soil	1
74439.05	AOC17-2-25	09/18/2014	Soil	1
74439.08	AOC17-2-40	09/18/2014	Soil	1
74439.09	AOC17-2-45	09/18/2014	Soil	1
74439.11	AOC17-2-55	09/18/2014	Soil	1
74439.14	AOC17-2-70	09/18/2014	Soil	1
74439.16	AOC17-2-80	09/18/2014	Soil	1
74439.18	AOC17-2-90	09/18/2014	Soil	1
74439.20	AOC17-2-100	09/18/2014	Soil	1
74439.21	AOC17-2-100-DUP	09/18/2014	Soil	1
74439.24	AOC17-1-10	09/18/2014	Soil	1
74439.25	AOC17-1-15	09/18/2014	Soil	1
74439.28	AOC17-1-30	09/18/2014	Soil	1
74439.30	AOC17-1-40	09/18/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/25/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/25/2014	2	Normal	mg/Kg
ASTM-D2216	09/25/2014	2	Normal	% wt

74439.02	AOC17-2-10	09/18/2014	Soil	1

Continued

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Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/18/2014
Date Reported 09/29/2014

Job Number	Order Date	Client
74439	09/18/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74439.03	AOC17-2-15	09/18/2014	Soil	1
74439.06	AOC17-2-30	09/18/2014	Soil	1
74439.07	AOC17-2-35	09/18/2014	Soil	1
74439.10	AOC17-2-50	09/18/2014	Soil	1
74439.12	AOC17-2-60	09/18/2014	Soil	1
74439.13	AOC17-2-65	09/18/2014	Soil	1
74439.15	AOC17-2-75	09/18/2014	Soil	1
74439.17	AOC17-2-85	09/18/2014	Soil	1
74439.19	AOC17-2-95	09/18/2014	Soil	1
74439.23	AOC17-1-5	09/18/2014	Soil	1
74439.26	AOC17-1-20	09/18/2014	Soil	1
74439.27	AOC17-1-25	09/18/2014	Soil	1
74439.29	AOC17-1-35	09/18/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
ARCHIVE	09/25/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C6

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/23/2014				
Preparation Method			3050B				
Date Analyzed			09/26/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C6

Our Lab I.D.			74439.01	74439.04	74439.05	74439.08	74439.09
Client Sample I.D.			AOC17-2-5	AOC17-2-20	AOC17-2-25	AOC17-2-40	AOC17-2-45
Date Sampled			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	5.80	10.0	9.00	3.61	2.89

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C6

Our Lab I.D.			74439.11	74439.14	74439.16	74439.18	74439.20
Client Sample I.D.			AOC17-2-55	AOC17-2-70	AOC17-2-80	AOC17-2-90	AOC17-2-100
Date Sampled			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	6.91	6.98	6.30	11.7	30.3

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C6

Our Lab I.D.			74439.21	74439.24	74439.25	74439.28	74439.30
Client Sample I.D.			AOC17-2-100-DUP	AOC17-1-10	AOC17-1-15	AOC17-1-30	AOC17-1-40
Date Sampled			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	23.2	6.35	9.67	5.86	4.38

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			Method Blank	74439.01	74439.04	74439.05	74439.08
Client Sample I.D.				AOC17-2-5	AOC17-2-20	AOC17-2-25	AOC17-2-40
Date Sampled				09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			74439.09	74439.11	74439.14	74439.16	74439.18
Client Sample I.D.			AOC17-2-45	AOC17-2-55	AOC17-2-70	AOC17-2-80	AOC17-2-90
Date Sampled			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			74439.20	74439.21	74439.24	74439.25	74439.28
Client Sample I.D.			AOC17-2-100	AOC17-2-100 -DUP	AOC17-1-10	AOC17-1-15	AOC17-1-30
Date Sampled			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			74439.30				
Client Sample I.D.			AOC17-1-40				
Date Sampled			09/18/2014				
Date Prepared			09/23/2014				
Preparation Method			3060A				
Date Analyzed			09/26/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (VI)	0.10	0.10	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091914-1

Our Lab I.D.			Method Blank	74439.01	74439.04	74439.05	74439.08
Client Sample I.D.				AOC17-2-5	AOC17-2-20	AOC17-2-25	AOC17-2-40
Date Sampled				09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/20/2014	09/20/2014	09/20/2014	09/20/2014	09/20/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	3.70	5.90	5.30	3.20

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091914-1

Our Lab I.D.			74439.09	74439.11	74439.14	74439.16	74439.18
Client Sample I.D.			AOC17-2-45	AOC17-2-55	AOC17-2-70	AOC17-2-80	AOC17-2-90
Date Sampled			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/20/2014	09/20/2014	09/20/2014	09/20/2014	09/20/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	4.20	3.60	3.50	1.90	3.91

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091914-1

Our Lab I.D.			74439.20	74439.21	74439.24	74439.25	74439.28
Client Sample I.D.			AOC17-2-100	AOC17-2-100 -DUP	AOC17-1-10	AOC17-1-15	AOC17-1-30
Date Sampled			09/18/2014	09/18/2014	09/18/2014	09/18/2014	09/18/2014
Date Prepared			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/20/2014	09/20/2014	09/20/2014	09/20/2014	09/20/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	7.51	5.40	2.30	6.60	2.90

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091914-1

Our Lab I.D.			74439.30				
Client Sample I.D.			AOC17-1-40				
Date Sampled			09/18/2014				
Date Prepared			09/19/2014				
Preparation Method			ASTM-D2216				
Date Analyzed			09/20/2014				
Matrix			Soil				
Units			% wt				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Moisture Content	0.1	0.1	3.10				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1

Our Lab I.D.			Method Blank	**74439.22**			
Client Sample I.D.				EB-091814-B			
Date Sampled				09/18/2014			
Date Prepared			09/19/2014	09/19/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/20/2014	09/20/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1

Our Lab I.D.			Method Blank	**74439.22**			
Client Sample I.D.				EB-091814-B			
Date Sampled				09/18/2014			
Date Prepared			09/18/2014	09/18/2014			
Preparation Method			7199	7199			
Date Analyzed			09/18/2014	09/18/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	101	0.0100	0.0100	98.8	2.20	75-125	<15

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	102	0.0100	0.0100	101	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Ordered By

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301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **17**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091814-1; Dup or Spiked Sample: 74438.01; LCS: Clean Water; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.960	96.0	1.00	0.959	95.9	<1	80-120	<20

QC Batch No: 091814-1; Dup or Spiked Sample: 74438.01; LCS: Clean Water; QC Prepared: 09/18/2014; QC Analyzed: 09/18/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.860	86.0	1.00	1.08	108	22.7	80-120	<20	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0923141C6; Dup or Spiked Sample: 74439.01; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/26/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	5.59	10.0	14.9	93.1	10.0	14.7	91.1	2.17	75-125	<15

QC Batch No: 0923141C6; Dup or Spiked Sample: 74439.01; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/26/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.930	93.1	1.00	0.940	93.5	<1	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1; Dup or Spiked Sample: 74439.01; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/26/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.244	97.5	0.250	0.250	100	2.5	80-120	<20

QC Batch No: 092314-1; Dup or Spiked Sample: 74439.01; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/26/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.225	90.0	0.250	0.219	87.6	2.7	80-120	<20	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank soil Investigation

AETL Job Number	Submitted	Client
74439	09/18/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091914-1; Dup or Spiked Sample: 74439.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	3.00	2.80	6.9	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**15**
Date Received	**09/19/2014**
Date Reported	**09/29/2014**

Job Number	Order Date	Client
74452	09/19/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation
Site: Burbank Soil

Enclosed please find results of analyses of 1 water and 7 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

№ 89034

AETL JOB No. 74452

Page 1 of 1

COMPANY: Tetra Tech, Inc.
PROJECT MANAGER: T. Villeneuve/N. Weinberger
COMPANY ADDRESS: 301. E. Vanderbilt Way, Suite 450 San Bernardino, CA 92408
PHONE:
FAX: 909-381-1674
PROJECT NAME: Burbank soils Inv
PROJECT #: 100-SBO-T32955
SITE NAME AND ADDRESS:
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Total Chrom 6010B / SW6020	HEX Chrome SW7199	HOLD								TEST INSTRUCTIONS & COMMENTS
1	EB-091914-B	74452.01	09/19/14	0700	water	2	N/A	X	X									
2	AOC17-1-45	74452.02	↓	0800	soil	1	↓	X	X									
3	AOC17-1-50	74452.03	↓	0805	↓	↓	↓			X								
4	AOC17-1-55	74452.04	↓	0816	↓	↓	↓			X								
5	AOC17-1-60	74452.05	↓	0821	↓	↓	↓	X	X									
6	AOC17-1-65	74452.06	↓	0828	↓	↓	↓	X	X									
7	AOC17-1-70	74452.07	↓	0840	↓	↓	↓			X								
8	AOC17-1-75	74452.08	↓	0845	↓	↓	↓			X								
9	AOC17-1-80	74452.09	↓	0902	↓	↓	↓	X	X									
10	AOC17-1-90	74452.10	↓	0910	↓	↓	↓	X	X									
11	AOC17-1-95	74452.11	↓	0915	↓	↓	↓			X								
12	AOC17-1-100	74452.12	↓	0921	↓	↓	↓	X	X									
13	AOC17-1-75-DUP	74452.13	↓	0746	↓	↓	↓	X	X									
14																		
15																		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	14	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y / (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) ____
☐ OTHER (PLEASE SPECIFY) ____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: P. Henderson	Printed Name:	Printed Name:
Date: 09/19/14 Time: 1015	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Antia
Date: Time:	Date: Time:	Date: 09/19/14 Time: 1015

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: TetraTech

Project Name:

AETL Job Number: 74452

Date Received: 09/19/14 Received by: Artin

Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3-1°C, No 2: _____, No 3: _____

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☒ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify):

How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	—		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/19/2014
Date Reported 09/29/2014

Job Number	Order Date	Client
74452	09/19/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 13 samples with the following specification on 09/19/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74452.01	EB-091914-B	09/19/2014	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/26/2014	2	Normal	mg/L
7199 ^ MG/L	09/26/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74452.02	AOC17-1-45	09/19/2014	Soil	1
74452.05	AOC17-1-60	09/19/2014	Soil	1
74452.06	AOC17-1-65	09/19/2014	Soil	1
74452.09	AOC17-1-80	09/19/2014	Soil	1
74452.10	AOC17-1-90	09/19/2014	Soil	1
74452.12	AOC17-1-100	09/19/2014	Soil	1
74452.13	AOC17-1-75-DUP	09/19/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/26/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/26/2014	2	Normal	mg/Kg
ASTM-D2216	09/26/2014	2	Normal	% wt

74452.03	AOC17-1-50	09/19/2014	Soil	1
74452.04	AOC17-1-55	09/19/2014	Soil	1
74452.07	AOC17-1-70	09/19/2014	Soil	1
74452.08	AOC17-1-75	09/19/2014	Soil	1
74452.11	AOC17-1-95	09/19/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/26/2014	2	Normal	--

Continued

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Project ID: 100-SBO-T32955
Date Received 09/19/2014
Date Reported 09/29/2014

Job Number	Order Date	Client
74452	09/19/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Attn: Michael Weinberger
Page: **2**

Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1

Our Lab I.D.			Method Blank	**74452.01**			
Client Sample I.D.				EB-091914-B			
Date Sampled				09/19/2014			
Date Prepared			09/19/2014	09/19/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/20/2014	09/20/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091914-1

Our Lab I.D.			Method Blank	**74452.01**			
Client Sample I.D.				EB-091914-B			
Date Sampled				09/19/2014			
Date Prepared			09/19/2014	09/19/2014			
Preparation Method			7199	7199			
Date Analyzed			09/19/2014	09/19/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0924141C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/24/2014				
Preparation Method			3050B				
Date Analyzed			09/27/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0924141C2

Our Lab I.D.			74452.02	74452.05	74452.06	74452.09	74452.10
Client Sample I.D.			AOC17-1-45	AOC17-1-60	AOC17-1-65	AOC17-1-80	AOC17-1-90
Date Sampled			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/27/2014	09/27/2014	09/27/2014	09/27/2014	09/27/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	6.40	3.35	5.89	7.00	3.74

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Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0924141C2

Our Lab I.D.			74452.12	74452.13			
Client Sample I.D.			AOC17-1-100	AOC17-1-75-DUP			
Date Sampled			09/19/2014	09/19/2014			
Date Prepared			09/24/2014	09/24/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/27/2014	09/27/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.350	1.000	9.11	4.37			

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **7**

Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			Method Blank	74452.02	74452.05	74452.06	74452.09
Client Sample I.D.				AOC17-1-45	AOC17-1-60	AOC17-1-65	AOC17-1-80
Date Sampled				09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1

Our Lab I.D.			74452.10	74452.12	74452.13		
Client Sample I.D.			AOC17-1-90	AOC17-1-100	AOC17-1-75-DUP		
Date Sampled			09/19/2014	09/19/2014	09/19/2014		
Date Prepared			09/23/2014	09/23/2014	09/23/2014		
Preparation Method			3060A	3060A	3060A		
Date Analyzed			09/23/2014	09/23/2014	09/23/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium (VI)	0.10	0.10	ND	ND	ND		

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Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091914-1

Our Lab I.D.			Method Blank	74452.02	74452.05	74452.06	74452.09
Client Sample I.D.				AOC17-1-45	AOC17-1-60	AOC17-1-65	AOC17-1-80
Date Sampled				09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/20/2014	09/20/2014	09/20/2014	09/20/2014	09/20/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	3.00	3.10	4.00	4.00

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Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091914-1

Our Lab I.D.			74452.10	74452.12	74452.13		
Client Sample I.D.			AOC17-1-90	AOC17-1-100	AOC17-1-75-DUP		
Date Sampled			09/19/2014	09/19/2014	09/19/2014		
Date Prepared			09/19/2014	09/19/2014	09/19/2014		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/20/2014	09/20/2014	09/20/2014		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	3.50	3.80	3.50		

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Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0101	101	0.0100	0.00988	98.8	2.2	75-125	<15

QC Batch No: 0919141C1; Dup or Spiked Sample: 74423.23; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/20/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0102	102	0.0100	0.0101	101	<1	75-125	<15	

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Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 091914-1; Dup or Spiked Sample: 74452.01; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/19/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	0.822	82.2	1.00	1.12	112	30.7	80-120	<20

QC Batch No: 091914-1; Dup or Spiked Sample: 74452.01; LCS: Clean Water; QC Prepared: 09/19/2014; QC Analyzed: 09/19/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	0.861	86.1	1.00	0.935	93.5	8.2	80-120	<20	

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Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0924141C2; Dup or Spiked Sample: 74468.03; LCS: Clean Sand; QC Prepared: 09/24/2014; QC Analyzed: 09/27/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	2.32	10.0	11.9	95.8	10.0	11.4	90.8	5.36	75-125	<15

QC Batch No: 0924141C2; Dup or Spiked Sample: 74468.03; LCS: Clean Sand; QC Prepared: 09/24/2014; QC Analyzed: 09/27/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	1.03	103	1.00	1.02	102	<1	75-125	<15	

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Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-1; Dup or Spiked Sample: 74452.02; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/23/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.258	103	0.250	0.265	106	2.9	80-120	<20

QC Batch No: 092314-1; Dup or Spiked Sample: 74452.02; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/23/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.268	107	0.250	0.246	98.4	8.4	80-120	<20	

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Page: **15**

Site

Burbank Soil

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74452	09/19/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 091914-1; Dup or Spiked Sample: 74452.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	3.00	2.80	6.9	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Tetra Tech, Inc. **301 E. Vanderbilt Way Suite 450** **San Bernardino, CA 92408-3559**

Number of Pages	**18**
Date Received	**09/19/2014**
Date Reported	**10/01/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74468	09/19/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 1 water and 12 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

№ 88980

AETL JOB No. 74468

COMPANY: TETRATECH	PROJECT MANAGER: M. VEINBERGER
COMPANY ADDRESS:	PHONE: / FAX:
PROJECT NAME: BURBANK METALS	PROJECT #: 100-SBO-T32955
SITE NAME AND ADDRESS:	PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 - Cr	7199 - Cr 6+	HOLD	TEST INSTRUCTIONS & COMMENTS
1	EB-091914-A	74468.01	9-19-14	1150	WATER	2-POLY	N/A	X	X		
2	AOC 12-1-5	74468.02		1212	SOIL	1-BRASS RING				X	
3	AOC12-1-10	74468.03		1215				X	X		
4	AOC12-1-15	74468.04		1217						X	
5	AOC12-1-20	74468.05		1219				X	X		
6	AOC12-1-25	74468.06		1225						X	
7	AOC12-1-30	74468.07		1230		1-JAR		X	X		
8	AOC12-1-30-DUP	74468.08		1231		1-JAR		X	X		
9	AOC12-1-35	74468.09		1235		1-BRASS RING				X	
10	AOC12-1-40	74468.10		1240				X	X		
11	AOC12-1-45	74468.11		1245						X	
12	AOC12-1-50	74468.12		1250				X	X		
13	AOC12-1-55	74468.13		1255						X	
14	AOC12-1-60	74468.14		1300				X	X		
15	AOC12-1-65	74468.15		1305						X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	16	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	KMCALISTER		Thomas Robertson
Date: / Time:	9-19-14 / 1610	/	9-19-14 / 1740
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AGIC 3.**
Signature:			
Printed Name:	Thomas Robertson		Artin
Date: / Time:	9-19-14 / 1610	/	09/19/14 / 1740

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

№ 88981

AETL JOB No. 74468

COMPANY: TETRATECH
PROJECT MANAGER: M. WEINBERGER
COMPANY ADDRESS:
PHONE:
FAX:
PROJECT NAME: BURBANK METALS
PROJECT #: 100-SBO-T32955
SITE NAME AND ADDRESS:
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020-Cr	7199-Cr6	HOLD.	TEST INSTRUCTIONS & COMMENTS
1	AOC12-1-70	74468.16	9-19-14	1310	SOIL	1-BRASS RING	N/A	X	X		
2	AOC12-1-75	74468.17		1315						X	
3	AOC12-1-80	74468.18		1320				X	X		
4	AOC12-1-85	74468.19		1325						X	
5	AOC12-1-90	74468.20		1330		1-JAR		X	X		
6	AOC12-1-90-DUP	74468.21		1331		1-JAR		X	X		
7	AOC12-1-100	74468.22		1348		1-~~BRASS RING~~ JAR		X	X		
8						~~1-JAR~~					
9											
10											
11											
12											
13											
14											
15											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	7	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	ARMINSTER		THOMAS ROBINSON
Date: / Time:	9-19-14 / 1610	/	9-19-14 / 1740
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AGTC 3.**
Signature:			
Printed Name:	THOMAS ROBINSON		Antin
Date: / Time:	9-19-14 / 1610	/	09/19/14 / 1740

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: TetraTech

Project Name:

AETL Job Number: ZY468

Date Received: 09/19/14 Received by: Artin

Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3-2°C, No 2: _____, No 3: _____

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify): _____

How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	↓		

Explain all "No" answers for above questions:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/19/2014
Date Reported 10/01/2014

Job Number	Order Date	Client
74468	09/19/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 22 samples with the following specification on 09/19/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74468.01	EB-091914-A	09/19/2014	Aqueous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	09/26/2014	2	Normal	mg/L
7199 ^ MG/L	09/26/2014	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74468.02	AOC12-1-5	09/19/2014	Soil	1
74468.04	AOC12-1-15	09/19/2014	Soil	1
74468.06	AOC12-1-25	09/19/2014	Soil	1
74468.09	AOC12-1-35	09/19/2014	Soil	1
74468.11	AOC12-1-45	09/19/2014	Soil	1
74468.13	AOC12-1-55	09/19/2014	Soil	1
74468.15	AOC12-1-65	09/19/2014	Soil	1
74468.17	AOC12-1-75	09/19/2014	Soil	1
74468.19	AOC12-1-85	09/19/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/26/2014	2	Normal	--

74468.03	AOC12-1-10	09/19/2014	Soil	1
74468.05	AOC12-1-20	09/19/2014	Soil	1
74468.07	AOC12-1-30	09/19/2014	Soil	1
74468.08	AOC12-1-30-DUP	09/19/2014	Soil	1
74468.10	AOC12-1-40	09/19/2014	Soil	1
74468.12	AOC12-1-50	09/19/2014	Soil	1
74468.14	AOC12-1-60	09/19/2014	Soil	1
74468.16	AOC12-1-70	09/19/2014	Soil	1
74468.18	AOC12-1-80	09/19/2014	Soil	1

Continued

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Project ID: 100-SBO-T32955 Date Received 09/19/2014 Date Reported 10/01/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74468	09/19/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74468.20	AOC12-1-90	09/19/2014	Soil	1
74468.21	AOC12-1-90-DUP	09/19/2014	Soil	1
74468.22	AOC12-1-100	09/19/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ BOU-CR	09/26/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/26/2014	2	Normal	mg/Kg
ASTM-D2216	09/26/2014	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Holding time of sample 74468.01 (EB-091914-A) was extended to 28 days by addition of ammonium sulfate buffer preservative.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0930141C5

Our Lab I.D.			Method Blank	**74468.01**			
Client Sample I.D.				EB-091914-A			
Date Sampled				09/19/2014			
Date Prepared			09/30/2014	09/30/2014			
Preparation Method			3005A	3005A			
Date Analyzed			09/30/2014	09/30/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Site

Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 092214-1

Our Lab I.D.			Method Blank	**74468.01**			
Client Sample I.D.				EB-091914-A			
Date Sampled				09/19/2014			
Date Prepared			09/22/2014	09/22/2014			
Preparation Method			7199	7199			
Date Analyzed			09/22/2014	09/22/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0924141C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/24/2014				
Preparation Method			3050B				
Date Analyzed			09/27/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0924141C2

Our Lab I.D.			74468.03	74468.05	74468.07	74468.08	74468.10
Client Sample I.D.			AOC12-1-10	AOC12-1-20	AOC12-1-30	AOC12-1-30-DUP	AOC12-1-40
Date Sampled			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/27/2014	09/27/2014	09/27/2014	09/27/2014	09/27/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	2.49	4.95	2.91	4.71	4.79

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0924141C2

Our Lab I.D.			74468.12	74468.14	74468.16	74468.18	74468.20
Client Sample I.D.			AOC12-1-50	AOC12-1-60	AOC12-1-70	AOC12-1-80	AOC12-1-90
Date Sampled			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/27/2014	09/27/2014	09/27/2014	09/27/2014	09/27/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	4.43	4.66	3.56	3.01	4.20

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0924141C2

Our Lab I.D.			74468.21	74468.22			
Client Sample I.D.			AOC12-1-90-DUP	AOC12-1-100			
Date Sampled			09/19/2014	09/19/2014			
Date Prepared			09/24/2014	09/24/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/27/2014	09/27/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.350	1.000	4.68	11.0			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-4

Our Lab I.D.			Method Blank	74468.03	74468.05	74468.07	74468.08
Client Sample I.D.				AOC12-1-10	AOC12-1-20	AOC12-1-30	AOC12-1-30-DUP
Date Sampled				09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-4

Our Lab I.D.			74468.10	74468.12	74468.14	74468.16	74468.18
Client Sample I.D.			AOC12-1-40	AOC12-1-50	AOC12-1-60	AOC12-1-70	AOC12-1-80
Date Sampled			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-4

Our Lab I.D.			74468.20	74468.21	74468.22		
Client Sample I.D.			AOC12-1-90	AOC12-1-90-DUP	AOC12-1-100		
Date Sampled			09/19/2014	09/19/2014	09/19/2014		
Date Prepared			09/23/2014	09/23/2014	09/23/2014		
Preparation Method			3060A	3060A	3060A		
Date Analyzed			09/23/2014	09/23/2014	09/23/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium (VI)	0.10	0.10	ND	ND	ND		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092214-2

Our Lab I.D.			Method Blank	74468.03	74468.05	74468.07	74468.08
Client Sample I.D.				AOC12-1-10	AOC12-1-20	AOC12-1-30	AOC12-1-30-DUP
Date Sampled				09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/22/2014	09/22/2014	09/22/2014	09/22/2014	09/22/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	7.00	10.3	2.40	2.60

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092214-2

Our Lab I.D.			74468.10	74468.12	74468.14	74468.16	74468.18
Client Sample I.D.			AOC12-1-40	AOC12-1-50	AOC12-1-60	AOC12-1-70	AOC12-1-80
Date Sampled			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/22/2014	09/22/2014	09/22/2014	09/22/2014	09/22/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	2.90	2.60	3.20	3.30	3.80

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092214-2

Our Lab I.D.			74468.20	74468.21	74468.22		
Client Sample I.D.			AOC12-1-90	AOC12-1-90-DUP	AOC12-1-100		
Date Sampled			09/19/2014	09/19/2014	09/19/2014		
Date Prepared			09/22/2014	09/22/2014	09/22/2014		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/23/2014	09/23/2014	09/23/2014		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	2.68	2.90	2.20		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 0930141C5; Dup or Spiked Sample: 74505.01; LCS: Clean Water; QC Prepared: 09/30/2014; QC Analyzed: 09/30/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.100	0.0891	89.1	0.100	0.0905	90.5	1.56	75-125	<15

QC Batch No: 0930141C5; Dup or Spiked Sample: 74505.01; LCS: Clean Water; QC Prepared: 09/30/2014; QC Analyzed: 09/30/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0200	0.0191	95.5	0.0200	0.0187	93.5	2.12	75-125	<15	

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301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **15**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 092214-1; Dup or Spiked Sample: 74468.01; LCS: Clean Water; QC Prepared: 09/22/2014; QC Analyzed: 09/22/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	1.00	1.00	100	1.00	0.990	99.0	1.0	80-120	<20

QC Batch No: 092214-1; Dup or Spiked Sample: 74468.01; LCS: Clean Water; QC Prepared: 09/22/2014; QC Analyzed: 09/22/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	1.00	1.08	108	1.00	1.03	103	4.7	80-120	<20	

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QUALITY CONTROL RESULTS

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Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0924141C2; Dup or Spiked Sample: 74468.03; LCS: Clean Sand; QC Prepared: 09/24/2014; QC Analyzed: 09/27/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	2.32	10.0	11.9	95.8	10.0	11.4	90.8	5.36	75-125	<15

QC Batch No: 0924141C2; Dup or Spiked Sample: 74468.03; LCS: Clean Sand; QC Prepared: 09/24/2014; QC Analyzed: 09/27/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	1.03	103	1.00	1.02	102	<1	75-125	<15	

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Page: **17**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-4; Dup or Spiked Sample: 74468.03; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/23/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.229	91.7	0.250	0.250	100	8.7	80-120	<20

QC Batch No: 092314-4; Dup or Spiked Sample: 74468.03; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/23/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.260	104	0.250	0.229	91.6	12.7	80-120	<20	

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Page: **18**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74468	09/19/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092214-2; Dup or Spiked Sample: 74468.03; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	7.00	6.60	5.9	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Attention: Michael Weinberger

Number of Pages	**14**
Date Received	**09/20/2014**
Date Reported	**10/01/2014**

Job Number	Order Date	Client
74470	09/20/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 12 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

Nº 88999

AETL JOB No. 74470 Page 1 of 2

COMPANY	Tetra Tech
PROJECT MANAGER	Michael Weinberger
COMPANY ADDRESS	3475 E Foothill Blvd
PHONE	626-470-2431
FAX	626-470-2631
PROJECT NAME	Burbank Soil Investigation
PROJECT #	
SITE NAME AND ADDRESS	
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: Total Chromium - 6020	Hex Chrome - 7199	Hold	TEST INSTRUCTIONS & COMMENTS
1	AOC11-1R-10	74470.01	9/19/14	1750	S	1/6" sleeve	—	X	X		Standard TAT
2	AOC11-1R-15	74470.02		1755						X	
3	AOC11-1R-20	74470.03		1800				X	X		
4	AOC11-1R-25	74470.04		1805						X	
5	AOC11-1R-30	74470.05		1810				X	X		
6	AOC11-1R-35	74470.06		1815		1/8oz jar		X	X		
7	AOC11-1R-35-Dup	74470.07		1816		1/8oz jar		X	X		
8	AOC11-1R-40	74470.08		1825		1/6" sleeve				X	
9	AOC11-1R-45	74470.09		1830				X	X		
10	AOC11-1R-50	74470.10		1835						X	
11	AOC11-1R-55	74470.11		1840						X	
12	AOC11-1R-60	74470.12		1845				X	X		
13	AOC11-1R-65	74470.13		1850						X	
14	AOC11-1R-70	74470.14		1900				X	X		
15	AOC11-1R-75	74470.15		1905						X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

☐ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:		RELINQUISHED BY:	RELINQUISHED BY:
Signature:		Signature:	Signature:
Printed Name:	D. McALISTER	Printed Name: M Weinberger	Printed Name:
Date: / Time:	9-19-14 / 2000	Date: 9/20/14 Time: 1200	Date: / Time:
RECEIVED BY:		RECEIVED BY:	RECEIVED BY LABORATORY: AETL
Signature:		Signature:	Signature:
Printed Name:	M Weinberger	Printed Name:	Printed Name: Antia
Date: / Time:	9/19/14 / 2000	Date: / Time:	Date: 9/20/14 Time: 1200

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

Nº 89000

AETL JOB No. 74470

COMPANY	Tetra Tech
PROJECT MANAGER	Michael Weinberger
COMPANY ADDRESS	3475 E Foothill Blvd
PHONE	626-470-2431
FAX	626-470-2631
PROJECT NAME	Burbank Soil Investigation
PROJECT #	
SITE NAME AND ADDRESS	
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Total Chromium 6020	Hex Chrome 7199	Hold	TEST INSTRUCTIONS & COMMENTS
1	AOC-11-1R-80	74470.16	9/19/14	1910	S	1/8-oz jar	—	X	X		Standard TAT
2	AOC-11-1R-80-DUP	74470.17		1911		1/8-oz jar		X	X		
3	AOC-11-1R-85	74470.18		1915		1/6" sleeve				X	
4	AOC-11-1R-90	74470.19		1920				X	X		
5	AOC-11-1R-95	74470.20		1925						X	
6	AOC-11-1R-100	74470.21		1930				X	X		
7											
8											
9											
10											
11											
12											
13											
14											
15											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	6	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

☐ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	D. MCBRISTER	M Weinberger	
Date / Time:	9-19-14 2000	9/20/14 1200	
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:			
Printed Name:	M Weinberger		Antia
Date / Time:	9/19/14 2000		9/20/14 1200

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Tetra Tech
Project Name:
AETL Job Number: 74470
Date Received: 09/20/14 Received by: Artin
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.1°C, No 2: _____, No 3: _____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☒ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	↓		

Explain all "No" answers for above questions:

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Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/20/2014
Date Reported 10/01/2014

Job Number	Order Date	Client
74470	09/20/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 21 samples with the following specification on 09/20/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74470.01	AOC11-1R-10	09/19/2014	Soil	1
74470.03	AOC11-1R-20	09/19/2014	Soil	1
74470.05	AOC11-1R-30	09/19/2014	Soil	1
74470.06	AOC11-1R-35	09/19/2014	Soil	1
74470.07	AOC11-1R-35-DUP	09/19/2014	Soil	1
74470.09	AOC11-1R-45	09/19/2014	Soil	1
74470.12	AOC11-1R-60	09/19/2014	Soil	1
74470.14	AOC11-1R-70	09/19/2014	Soil	1
74470.16	AOC11-1R-80	09/19/2014	Soil	1
74470.17	AOC11-1R-80-DUP	09/19/2014	Soil	1
74470.19	AOC11-1R-90	09/19/2014	Soil	1
74470.21	AOC11-1R-100	09/19/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/26/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/26/2014	2	Normal	mg/Kg
ASTM-D2216	09/26/2014	2	Normal	% wt

74470.02	AOC11-1R-15	09/19/2014	Soil	1
74470.04	AOC11-1R-25	09/19/2014	Soil	1
74470.08	AOC11-1R-40	09/19/2014	Soil	1
74470.10	AOC11-1R-50	09/19/2014	Soil	1
74470.11	AOC11-1R-55	09/19/2014	Soil	1
74470.13	AOC11-1R-65	09/19/2014	Soil	1
74470.15	AOC11-1R-75	09/19/2014	Soil	1
74470.18	AOC11-1R-85	09/19/2014	Soil	1
74470.20	AOC11-1R-95	09/19/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units

Continued

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Project ID: 100-SBO-T32955
Date Received 09/20/2014
Date Reported 10/01/2014

Job Number	Order Date	Client
74470	09/20/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

74470.20	AOC11-1R-95	09/19/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/26/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0925141C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/25/2014				
Preparation Method			3050B				
Date Analyzed			09/27/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Page: **3**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0925141C2

Our Lab I.D.			74470.01	74470.03	74470.05	74470.06	74470.07
Client Sample I.D.			AOC11-1R-10	AOC11-1R-20	AOC11-1R-30	AOC11-1R-35	AOC11-1R-35-DUP
Date Sampled			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/25/2014	09/25/2014	09/25/2014	09/25/2014	09/25/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/27/2014	09/27/2014	09/27/2014	09/27/2014	09/27/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	5.14	2.47	5.81	4.92	5.66

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Page: **4**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0925141C2

Our Lab I.D.			74470.09	74470.12	74470.14	74470.16	74470.17
Client Sample I.D.			AOC11-1R-45	AOC11-1R-60	AOC11-1R-70	AOC11-1R-80	AOC11-1R-80-DUP
Date Sampled			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/25/2014	09/25/2014	09/25/2014	09/25/2014	09/25/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/27/2014	09/27/2014	09/27/2014	09/27/2014	09/27/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	3.90	3.02	18.4	9.75	9.55

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **5**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0925141C2

Our Lab I.D.			74470.19	74470.21			
Client Sample I.D.			AOC11-1R-90	AOC11-1R-100			
Date Sampled			09/19/2014	09/19/2014			
Date Prepared			09/25/2014	09/25/2014			
Preparation Method			3050B	3050B			
Date Analyzed			09/27/2014	09/27/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.350	1.000	4.94	10.8			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-3

Our Lab I.D.			Method Blank	74470.01	74470.03	74470.05	74470.06
Client Sample I.D.				AOC11-1R-10	AOC11-1R-20	AOC11-1R-30	AOC11-1R-35
Date Sampled				09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	0.956	ND	0.809	1.83

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-3

Our Lab I.D.			74470.07	74470.09	74470.12	74470.14	74470.16
Client Sample I.D.			AOC11-1R-35-DUP	AOC11-1R-45	AOC11-1R-60	AOC11-1R-70	AOC11-1R-80
Date Sampled			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	0.191	0.473	ND	0.426	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-3

Our Lab I.D.			74470.17	74470.19	74470.21		
Client Sample I.D.			AOC11-1R-80-DUP	AOC11-1R-90	AOC11-1R-100		
Date Sampled			09/19/2014	09/19/2014	09/19/2014		
Date Prepared			09/23/2014	09/23/2014	09/23/2014		
Preparation Method			3060A	3060A	3060A		
Date Analyzed			09/23/2014	09/23/2014	09/23/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium (VI)	0.10	0.10	ND	ND	ND		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092214-1

Our Lab I.D.			Method Blank	74470.01	74470.03	74470.05	74470.06
Client Sample I.D.				AOC11-1R-10	AOC11-1R-20	AOC11-1R-30	AOC11-1R-35
Date Sampled				09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/22/2014	09/22/2014	09/22/2014	09/22/2014	09/22/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	2.20	2.00	2.00	2.90

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092214-1

Our Lab I.D.			74470.07	74470.09	74470.12	74470.14	74470.16
Client Sample I.D.			AOC11-1R-35-DUP	AOC11-1R-45	AOC11-1R-60	AOC11-1R-70	AOC11-1R-80
Date Sampled			09/19/2014	09/19/2014	09/19/2014	09/19/2014	09/19/2014
Date Prepared			09/22/2014	09/22/2014	09/22/2014	09/22/2014	09/22/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/23/2014	09/23/2014	09/23/2014	09/23/2014	09/23/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	2.60	7.40	3.40	4.10	1.30

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092214-1

Our Lab I.D.			74470.17	74470.19	74470.21		
Client Sample I.D.			AOC11-1R-80-DUP	AOC11-1R-90	AOC11-1R-100		
Date Sampled			09/19/2014	09/19/2014	09/19/2014		
Date Prepared			09/22/2014	09/22/2014	09/22/2014		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			09/23/2014	09/23/2014	09/23/2014		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	1.54	2.23	2.90		

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0925141C2; Dup or Spiked Sample: 74470.01; LCS: Clean Sand; QC Prepared: 09/25/2014; QC Analyzed: 09/27/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	5.03	10.0	15.8	108	10.0	15.3	103	4.74	75-125	<15

QC Batch No: 0925141C2; Dup or Spiked Sample: 74470.01; LCS: Clean Sand; QC Prepared: 09/25/2014; QC Analyzed: 09/27/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	1.08	108	1.00	1.03	103	4.74	75-125	<15	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092314-3; Dup or Spiked Sample: 74470.01; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/23/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.935	0.250	1.22	115	0.250	1.22	112	2.6	80-120	<20

QC Batch No: 092314-3; Dup or Spiked Sample: 74470.01; LCS: Clean Sand; QC Prepared: 09/23/2014; QC Analyzed: 09/23/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.238	95.2	0.250	0.255	102	6.9	80-120	<20	

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74470	09/20/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092214-1; Dup or Spiked Sample: 74470.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	2.20	2.30	4.4	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**17**
Date Received	**09/23/2014**
Date Reported	**10/01/2014**

Job Number	Order Date	Client
74488	09/23/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 17 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

74488 1/15

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Telephone: (909) 381-1674
FAX: (909) 889-1391

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CHAIN OF CUSTODY RECORD

~~74237~~ DATE 9-2-2014 PAGE 2 OF 2

CLIENT: LMC
PROJECT NAME: BURBANK METALS INV.
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32935/TM-B1.03
SAMPLERS (Signatures): [signature]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL
*Added 09/23/14 normal (DD) 1540

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	HOLD	moisture											FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC8/9-1-50	9-2-14	1155			X												U	S	SB	1	NR	74237.11
2.	AOC8/9-1-55	(	1200	X	X													(	(	(	(	(	74237.12
3.	AOC8/9-1-60	⌇	1210	*	*	X	*			74488.01								⌇	⌇	⌇	⌇	⌇	~~74237.13~~
4.	EB-090214-A	↓	924	X	X													↓	↓	↓	↓	↓	74237.14
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil, M - Sediment, W - Water

CONTAINER TYPE: G - Glass Bottle/Jar, SS - Stainless Steel Sleeve, SB - Brass Sleeve, P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL, NR (None required), NaOH, H_2SO_4

RELINQUISHED BY	SIGNATURE	TETRA TECH, INC.	DATE	TIME	
[signature]	R McALISTER		9-2-14	1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: Sangus [signature]	SIGNATURE: [signature]	COMPANY: AETL	9/2/14	1630	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: Sangus [signature]	SIGNATURE: [signature]	COMPANY: AETL	9/2/14	1715	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Vande	SIGNATURE: [signature]	COMPANY: AETL	09/02/14	1715	

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SHIP TO: 74488 / ~~74238~~

CHAIN OF CUSTODY RECORD

2/15

DATE 09/02/14 PAGE 2 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soil Investigation
PROJECT MANAGER: T Villeneuve/M. Weinberger
TC #:
SAMPLERS (Signatures):

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Chromium SW7199 HEX	HOLD	Chromium SW 6020	Hex Chrom SW 7199	moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC8/9-2-50	09/02/14	1123	X	X	X				U	S	SB	1	NR	74238.11
2.	AOC8/9-2-55		1128	X	X							SB	1	NR	74238.12
3.	AOC8/9-2-60		1130	X	X	X	*	*	*			SB	1	NR	~~74238.13~~
4.	AOC8/9-2-40-DUP		1108	X	X							G	1	NR	74238.14
5.	AOC8/9-2-60-DUP		1131	X	X							G	1	NR	74238.15
6.	AOC8/9-3-5		1435	X	X							SB	1	NR	74238.16
7.	AOC8/9-3-10		1440	X	X	X							1	NR	74238.17
8.	AOC8/9-3-15		1442	X	X								1	NR	74238.18
9.	AOC8/9-3-20		1447	X	X	X							1	NR	74238.19
10.	AOC8/9-3-25		1449	X	X								1	NR	74238.20

74488.12

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL
* added 09/23/14
NORMAL (TJ 1540

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY: Philip Henderson	SIGNATURE:	TETRA TECH, INC.	DATE: 09/02/14	TIME: 1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10 of 32
RECEIVED BY: Sarpis-P	SIGNATURE:	COMPANY: AETL	DATE: 9/2/14	TIME: 1635	METHOD OF SHIPMENT/SHIPMENT NO.: Courrier
RELINQUISHED BY: Sarpis-P	SIGNATURE:	COMPANY: AETL	DATE: 9/2/14	TIME: 1715	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Daude	SIGNATURE:	COMPANY: AETL	DATE: 09/02/14	TIME: 1715	

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SHIP TO: 74488 / ~~74238~~

CHAIN OF CUSTODY RECORD

DATE 09/02/14 PAGE 3 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soils Investigation
PROJECT MANAGER: T. Villeneuve/H. Weinberger
TC #:
SAMPLERS (Signature): Philip Henderson

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Hex chrom SW7199	HOLD	moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC8/9-3-30	09/02/14	1454	~~X~~	~~X~~	X		U	S	SB	1	NR	74238.21
2.	AOC8/9-3-35		1459	~~X~~	~~X~~	X					1		74238.22
3.	AOC8/9-3-40		1502	X	X						1		74238.23
4.	AOC8/9-3-45		1506	X	X						1		74238.24
5.	AOC8/9-3-50		1510			X					1		74238.25
6.	AOC8/9-3-55		1514	X	X						1		74238.26
7.	AOC8/9-3-60		1520	*	*	X	*				1		~~74238.27~~
8.	AOC8/9-3-55-DUP	09/02/14	1515	X	X					G	1		74238.28
9.													
10.													

74488.03

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL
*Added 09/23/14
normal (TW 1540)

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
Philip Henderson	Philip Henderson	TETRA TECH, INC.	09/02/14	1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 8 of 32
RECEIVED BY: Sargis P	SIGNATURE	COMPANY: AGTL	DATE: 9/2/14	TIME: 1630	METHOD OF SHIPMENT/SHIPMENT NO.: courrier
RELINQUISHED BY: Sargis P	SIGNATURE	COMPANY: AGTL	DATE: 9/2/14	TIME: 1715	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

4/15

74488

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74250

DATE 9-3-2014 PAGE 1 OF 2

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr 6+	HOLD		MOISTURE										FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	EB-090314-A	9-3-14	805	X	X													U	W	G/P	5	NP/HCl	74250.01
2.	AOC8/9-4-10		910	X	X														S	SB	1	NR	74250.02
3.	AOC8/9-4-15		918			X																	74250.03
4.	AOC8/9-4-20		922	X	X																		74250.04
5.	AOC8/9-4-25		932			X																	74250.05
6.	AOC8/9-4-30		938	X	X																		74250.06
7.	AOC8/9-4-35		942			X																	74250.07
8.	AOC8/9-4-40		956	X	X	X		X															~~74250.08~~ 74488.04
9.	AOC8/9-4-45		1005	X	X																		74250.09
10.	AOC8/9-4-45+DUP		1006	X	X																		74250.10

*Added 09/23/14 normal @ 1540

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
D. MCALISTER		TETRA TECH, INC.	9-3-2014	1635	14
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
THOMAS		AETL	9-3-14	1635	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
THOMAS		AETL	9-3-14	1650	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Artin		AETL	09/03/14	1650	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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5/15

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL 74488 74251

CHAIN OF CUSTODY RECORD

DATE 9-3-14 PAGE 1 OF 4

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signature)

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr 6+	1410D	MOISTURE	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	EB-090314-8	09/03/14	900	X	X			U	W	G	5	NR/HCL	74251-01
2.	AOC1-1-5		1020			X			S	SB	1	NR	74251.02
3.	AOC 1-1-10		1025	X	X								74251.03
4.	AOC 1-1-15		1031			X							74251.04
5.	AOC 1-1-20		1035	X	X								74251-05
6.	AOC 1-1-25		1041			X							74251-06
7.	AOC 1-1-30		1045	X	X								74251-07
8.	AOC 1-1-35		1051	X	X	X	X						~~74251-08~~ 74488.05
9.	AOC 1-1-40		1055			X							74251.09
10.	AOC 1-1-45		1100	X	X								74251-10

Please report all data to MDL
*Added 09/23/14
normal (20) 1540

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY: P. Henderson	SIGNATURE	TETRA TECH, INC.	DATE 09/03/14	TIME 1635	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14
RECEIVED BY: Thomas	SIGNATURE	COMPANY: AETL	DATE 9-3-14	TIME 1635	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: Thomas	SIGNATURE	COMPANY: AETL	DATE 9-3-14	TIME 1650	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Laude	SIGNATURE	COMPANY: AETL	DATE 09/03/14	TIME 1650	

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DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

6/15

74488

74264

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

DATE 9-4-2014 PAGE 1 OF 2

CLIENT: CMC

PROJECT NAME: BURBANK METALS

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBO-T32455

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	HOLD	8260B	MOISTURE	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	EB-090414-A	9-4-14	2030	X	X		X		U	W	G/P	5	NR/HCl	74264-01
2.	AOC11-2-10		2126	X	X					S	SB	1	NR	74264-02
3.	AOC11-2-15		2130			X								74264-03
4.	AOC11-2-20		2135	X	X									74264-04
5.	AOC11-2-25		2140			X								74264-05
6.	AOC11-2-30		2144	X	X									74264-06
7.	AOC11-2-35		2150	X	X	X		X						~~74264-07~~ 74488-06
8.	AOC11-2-35-DUP		2151	X	X									74264-08
9.	AOC11-2-40		2155			X								74264-09
10.	AOC11-2-45		2200	X	X									74264-10

* Added 09/23/14 normal (2) 1540

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14
D. MCBRISTER		TETRA TECH, INC.	9-05-14	0800	
RECEIVED BY: R SABATER	SIGNATURE	COMPANY: TETRA TECH	DATE: 9/5/14	TIME: 0900	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: R. SABATER	SIGNATURE	COMPANY: "	DATE: 9/5/14	TIME: 0820	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Canedo	SIGNATURE	COMPANY: AETL	DATE: 09/5/14	TIME: 0820	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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74488 7/15

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

~~77264~~

DATE 9-4-2014 PAGE 2 OF 2

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signature): [signature]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL. *Added 09/23/14 normal TAT 1540

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	Hold	Moisture	PARAMETERS	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC 11-2-50	9-4-14	2205			X			U	S	SB	1	NR	74264.11
2.	AOC 11-2-60	"	2215	X	X				"	"	"	"	"	77264.12
3.	AOC 11-2-70	"	2225	X*	X*	X	*	74488.07	"	"	"	"	"	~~74264.13~~
4.	AOC 11-2-75	"	2240	X	X				"	"	"	"	"	74264.14
5.	AOC 11-2-90	"	2330	X*	X*	X	*	74488.08	"	"	"	"	"	~~74264.15~~
6.	AOC 11-2-100	"	2335	X	X				"	"	"	"	"	74264.16
7.														
8.														
9.														
10.														

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil, M - Sediment, W - Water

CONTAINER TYPE: G - Glass Bottle/Jar, SS - Stainless Steel Sleeve, SB - Brass Sleeve, P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL, NR (None required), NaOH, H_2SO_4

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY: D McALISTER	[signature]	TETRA TECH, INC.	09/05/14	8:00 AM
RECEIVED BY: R SABATER	[signature]	TETRA TECH	09/05/14	8:00 AM
RELINQUISHED BY: R SABATER	[signature]	TETRA TECH	09/05/14	8:20 AM
RECEIVED BY: Leon Clande	[signature]	AETL	9/5/14	0820

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 6

METHOD OF SHIPMENT/SHIPMENT NO.: COURIER

Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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74488 8/15

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO:

CHAIN OF CUSTODY RECORD

~~74265~~

DATE 09/04/14 PAGE 1 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soils Investigation
PROJECT MANAGER: T. Villeneuve/M. Weinberger
TC #: 100-SBO-T32955.TM ~~BI.03~~
SAMPLERS (Signatures): [signature]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL
*Added: 09/23/14 normal @ 1540

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom SW6020	Hex Chrom SW7199	HOLD		Moisture		FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC2-1-15	09/04/14	2048	X	X					U	S	SB	1	NR	74265.01
2.	AOC2-1-20	↓	2051			X				↓	↓	↓	1	↓	74265.02
3.	AOC2-1-25	↓	2056	X	X					↓	↓	↓	1	↓	74265.03
4.	AOC2-1-30	↓	2058	X	X					↓	↓	↓	1	↓	74265.04
5.	AOC2-1-35	↓	2103			X				↓	↓	↓	1	↓	74265.05
6.	AOC2-1-40	↓	2107	*	*	X		*	74488.09	↓	↓	↓	1	↓	~~74265.06~~
7.	AOC2-1-45	↓	2110	X	X					↓	↓	↓	1	↓	74265.07
8.	AOC2-1-50	↓	2116			X				↓	↓	↓	1	↓	74265.08
9.	AOC2-1-55	↓	2121	X	X					↓	↓	↓	1	↓	74265.09
10.	AOC2-1-60	↓	2135	X	X					↓	↓	↓	1	↓	74265.10

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil, M - Sediment, W - Water

CONTAINER TYPE: G - Glass Bottle/Jar, SS - Stainless Steel Sleeve, SB - Brass Sleeve, P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL, NR (None required), NaOH, H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
R. Gabater	[signature]	TETRA TECH, INC.	09/5/14	0820
RECEIVED BY: Jean Claude	[signature]	AETL	09/05/14	0820
RELINQUISHED BY				
RECEIVED BY				

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
METHOD OF SHIPMENT/SHIPMENT NO.: Courrier
Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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74488 9/15

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74265

DATE 09/04/14 PAGE 2 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: Lex-SBO-T32955.TM

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom SW6020	Hex Chrom SW 7199	Ho LD	Moisture											FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	Aoc2-1-70	09/04/14	2156	*	*	X	*					74488.10						U	S	SB	1	NR	74265.11
2.	Aoc2-1-75		2216	X	X																1		74265.12
3.	Aoc2-1-80		2224	X	X																1		74265.13
4.	Aoc2-1-85		2232			X															1		74265.14
5.	Aoc2-1-90		2238	X	X																1		74265.15
6.	Aoc2-1-95		2244			X															1		74265.16
7.	Aoc2-1-100		2248	X	X																1		74265.17
8.	Aoc2-1-105		2257			X															1		74265.18
9.	Aoc2-1-110		2305	X	X																1		74265.19
10.	Aoc2-1-115	↓	2327			X												↓	↓	↓	1	↓	74265.20

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL
*Added 09/23/14
Normal
1540

PARAMETERS

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY: R. SABATER	SIGNATURE	TETRA TECH, INC.	DATE 09/5/14	TIME 0820	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: Leon Lande	SIGNATURE	COMPANY TETC	DATE 09/05/14	TIME 0820	METHOD OF SHIPMENT/SHIPMENT NO.: Courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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74488

10/15

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74265

CHAIN OF CUSTODY RECORD

DATE 09/04/14 PAGE 3 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: 100-580-T32955.TM

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom SW6020	Hex Chrom SW7199	Hold 8260B	moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC2-1-120	09/04/14	2332	X	X			U	S	SB	1	NR	74265.21
2.	AOC2-1-125		2338	*	*	X	*				1		74265.22
3.	AOC2-1-130		2342			X					1		74265.23
4.	AOC2-1-135		2351	X	X						1		74265.24
5.	AOC2-1-140		2355	X	X						1		74265.25
6.	AOC2-1-145		2358			X					1		74265.26
7.	AOC2-1-150		2359	X	X						1		74265.27
8.	AOC2-1-55-DUP		2122	X	X						1		74265.28
9.	EB-090414-B		1900	X	X	X			W	G/P	5	see below	74265.29
10.													

74488.11

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL
*Added: 09/23/14
normal TAT
15WD

FILTERING:
☐ FILTERED ☑ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
R. SABATER		TETRA TECH, INC.	9/5/14	0820	13
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Jean Lauder		AETL	09/05/14	0820	Courier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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74488 11/15

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74312

CHAIN OF CUSTODY RECORD

DATE 09/05/14 PAGE 1 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soils Inv
PROJECT MANAGER: T. Villeneuve/M. Weinberger
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	Sw6020 Total Chrom	Sw7199 Hex Chrom	HOLD	VOCs 8260B	moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME: Standard
1.	EB-090514-B	09/05/14	1900	X	X		X		U	W	G/P	5	See label	74312.01
2.	AOC3-1-15		2252	X	X				F	S	SB	1	NR	74312.02
3.	AOC3-1-20		2256	X	X							1		74312.03
4.	AOC3-1-25		2301			X						1		74312.04
5.	AOC3-1-30		2305	X	X							1		74312.05
6.	AOC3-1-35		2309			X						1		74312.06
7.	AOC3-1-40		2314	X	X							1		74312.07
8.	AOC3-1-45		2318	X	X	X		X				1		~~74312.08~~
9.	AOC3-1-50		2326			X						1		74312.09
10.	AOC3-1-55		2330	X	X							1		74312.10

74488.12

OBSERVATIONS/COMMENTS
Please report all data to MDL
*Added: 09/23/14 normal (dr) 1540

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
P. Henderson		TETRA TECH, INC.	9-8-2014	2059	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
M Weinberger		TT	9/8/14	2059	Courier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
M Weinberger		TT	9/9/14	820	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Jean Claude		BETC	09/09/14	0820	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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12/15

74488

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74312

DATE 09/06/14 PAGE 2 OF 3

CLIENT: LMC
PROJECT NAME: Burbank
PROJECT MANAGER: T. Villeneuve/M. Weinberger
TC #: 100-SBO-T3955
SAMPLERS (Signatures)

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report all data to MDL
*Added: 09/23/14
Normal (D) 1540

LINE ITEM	SAMPLE NO.	DATE	TIME	Sw6020 Total Cr VI	Sw7199 Hex Chrom	HOLD	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC3-1-60	09/05/14	2335	X	X			U	S	SB	1	NP	74312.11
2.	AOC3-1-65	09/05/14	2338			X					1		74312.12
3.	AOC3-1-70	09/05/14	2346	X	X						1		74312.13
4.	AOC3-1-75	09/05/14	2353	X	X	X	X				1		~~74312.14~~
5.	AOC3-1-80	09/05/14	2359			X					1		74312.15
6.	AOC3-1-85	09/06/14	0005	X	X						1		74312.16
7.	AOC3-1-90	09/06/14	0009	X	X						1		74312.17
8.	AOC3-1-95	09/06/14	0012	X	X	X	X				1		~~74312.18~~
9.	AOC3-1-105	09/06/14	0026			X					1		74312.19
10.	AOC3-1-110	09/06/14	0044	X	X						1		74312.20

74488.13
74488.14

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	
P. Henderson		TETRA TECH, INC.	9-8-2014	2059	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: M Weinberger		Tt	9/8/14	2057	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY: M Weinberger		Tt	9/9/14	820	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Lenn Lemke		TETC	09/09/14	0820	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AEL

74488 / 74317

13/15

CHAIN OF CUSTODY RECORD

DATE 9-9-14 PAGE 3 OF 3

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M-WEINBERGER
TC #: 100-SBO-T32855
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr 6+	HOLD		Moisture									FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC 7-2-90-DUP	9-9-14	0004	X	X												V	S	SB	1	NR	74317.21
2.	AOC 7-2-95		0012			X																74317.22
3.	AOC7-2-100		0020	X	X																	74317.23
4.	AOC7-2-105		0032			X																74317.24
5.	AOC7-2-110		0040	X	X																	74317.25
6.	AOC7-2-115		0050			X																74317.26
7.	AOC7-2-120		0101	X	X																	74317.27
8.	AOC7-2-125		0106			X																74317.28
9.	AOC7-2-130		0201	X	X																	74317.29
10.	AOC7-2-135		0212	X	X	X		X														~~74317.30~~

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL
*Added: 09/23/14
normal (SD) 1570

74488.15

FILTERING:
☐ FILTERED ☐ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY:
D McAlister		TETRA TECH, INC.	9/9/14	800	10
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY Tt	DATE 9/9/14	TIME 800	METHOD OF SHIPMENT/SHIPMENT NO. COURIER
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY Tt	DATE 9/9/14	TIME 1435	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: AEL	SIGNATURE	COMPANY AEL	DATE 09/09/14	TIME 1435	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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74488
14/15

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: ______

~~74318~~

DATE 09/08/14 PAGE 3 OF 4

CLIENT: LMC
PROJECT NAME: LMC Burbank Soils INV.
PROJECT MANAGER: ~~T. Villeneuve~~ M Weinberger
TC #: 100-SBD-T32955
SAMPLERS (Signatures): [signatures]

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report all data to MDL
*Added: 09/23/14 Normal @ 1540

LINE ITEM	SAMPLE NO.	DATE	TIME	Tot. SW6020 Chrome	Hex SW7199 Chrome	HOLD		Moisture	PARAMETERS (other)	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	ADCS-1-105	09/08/14	2351	X	X					U	S	SB	1	NR	74318.21
2.	ADCS-1-110	09/08/14	2359			X				↓	↓	↓	1	↓	74318.22
3.	ADCS-1-115	09/09/14	0007	X	X					↓	↓	↓	1	↓	74318.23
4.	ADCS-1-120	09/09/14	0015			X				↓	↓	↓	1	↓	74318.24
5.	ADCS-1-125	09/09/14	0021	X*	X*	X		*	74498.16	↓	↓	↓	1	↓	~~74318.25~~
6.	ADCS-1-130	09/09/14	0030	X	X					↓	↓	↓	1	↓	74318.26
7.	ADCS-1-135	09/09/14	0034	X	X					↓	↓	↓	1	↓	74318.27
8.	ADCS-1-140	09/09/14	0044			X				↓	↓	↓	1	↓	74318.28
9.	ADCS-1-145	09/09/14	0049			X				↓	↓	↓	1	↓	74318.29
10.	ADCS-1-150	09/09/14	0055	X	X					↓	↓	↓	1	↓	74318.30

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY: P Henderson	[signature]	TETRA TECH, INC.	9/9/14	800
RECEIVED BY: M Weinberger	[signature]	Tt	9/9/14	800
RELINQUISHED BY: M Weinberger	[signature]	Tt	9/9/14	1435
RECEIVED BY: Antin	[signature]	AETL	09/09/14	1435

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
METHOD OF SHIPMENT/SHIPMENT NO.
Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74488
74830

CHAIN OF CUSTODY RECORD

15/15

DATE 09/09/14 PAGE 3 OF 4

CLIENT: LMC
PROJECT NAME: LMC Burbank Soils INV.
PROJECT MANAGER: T. Villeneuve / M. Weinberger
TC #: 100-SBD-T32955
SAMPLERS (Signature): P. Henderson

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chromium SW 6020	Hex Chromium SW 7199	HOLD	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC7-1-115	09/09/14	2351	X	X			U	S	SB	1	NR	74330.21
2.	AOC7-1-120	09/10/14	0010	X	X	X	X				1		~~74330.22~~
3.	AOC7-1-125	09/10/14	0019	X	X						1		74330.23
4.	AOC7-1-130	09/10/14	0041			X					1		74330.24
5.	AOC7-1-135	09/10/14	0050			X					1		74330.25
6.	AOC7-1-140	09/10/14	0141	X	X						1		74330.26
7.	AOC7-1-145	09/10/14	0145	X	X						1		74330.27
8.	AOC7-1-150	09/10/14	0149			X					1		74330.28
9.	AOC7-1-130-DUP	09/10/14	0015	X	X						1		74330.29
10.	AOC7-1-100-DUP	09/09/14	2259	X	X						1		74330.30

74488.17

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report all data to MDL
* Added: 09/23/14
normal
1540

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
P. Henderson		TETRA TECH, INC.	09/10/14	830
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE: 9/10/14	TIME: 830
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE: 9/10/14	TIME: 920
RECEIVED BY: Actin	SIGNATURE	COMPANY: AETC	DATE: 09/10/14	TIME: 0920

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10

METHOD OF SHIPMENT/SHIPMENT NO.: Courier

Special Shipping/Handling/Storage Requirements:

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DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, September 23, 2014 2:54 PM
To: Cyrus Razmara; Cyphers, Darrell; Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas; Jim Lin (jiml@aetlab.com)
Subject: RE: Results of analysis (AETL Job No. 74237) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Cyrus, please analyze AOC8/9-1-60 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Thursday, September 11, 2014 5:21 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74237) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank, CA.

AETL Job No: 74237 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, September 23, 2014 2:59 PM
To: Cyrus Razmara; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74238) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Cyrus, please analyze AOC8/9-2-60 and AOC8/9-3-60 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Tuesday, September 16, 2014 10:59 AM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74238) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank, CA.

AETL Job No: 74238 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, September 23, 2014 2:56 PM
To: Cyrus Razmara; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74250) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Cyrus, please analyze AOC8/9/4-40 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Thursday, September 11, 2014 5:22 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74250) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank, CA.

AETL Job No: 74250 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, September 23, 2014 2:57 PM
To: Cyrus Razmara; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74251) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Cyrus, please analyze AOC1-1-35 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Thursday, September 11, 2014 5:23 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74251) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank, CA.

AETL Job No: 74251 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, September 23, 2014 3:03 PM
To: Cyrus Razmara; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74264) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Cyrus, please analyze AOC11-2-35, AOC11-2-70, and AOC11-2-90 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Tuesday, September 16, 2014 2:24 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74264) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank, CA.

AETL Job No: 74264 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, September 23, 2014 2:58 PM
To: Cyrus Razmara; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74265) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Cyrus, please analyze AOC2-1-40, AOC2-1-70, and AOC2-1-125 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Friday, September 12, 2014 2:00 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74265) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank, CA.

AETL Job No: 74265 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, September 23, 2014 3:04 PM
To: Cyrus Razmara; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74312) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Cyrus, please analyze AOC3-1-45, AOC3-1-75, and AOC3-1-95 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Wednesday, September 17, 2014 4:19 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74312) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank, CA.

AETL Job No: 74312 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, September 23, 2014 3:05 PM
To: Cyrus Razmara; Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74317) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Cyrus, please analyze AOC7-2-135 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Wednesday, September 17, 2014 4:20 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74317) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank, CA.

AETL Job No: 74317 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, September 23, 2014 3:06 PM
To: Cyrus Razmara; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74318) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Cyrus, please analyze AOC5-1-125 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Wednesday, September 17, 2014 4:21 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74318) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank, CA.

AETL Job No: 74318 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, September 23, 2014 3:06 PM
To: Cyrus Razmara; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74330) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Cyrus, please analyze AOC7-1-120 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Wednesday, September 17, 2014 4:23 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74330) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank, CA.

AETL Job No: 74330 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Wednesday, September 24, 2014 8:26 AM
To: Cyrus Razmara; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74264) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

My apologies, it looks like AOC11-2-35 was already analyzed. Please just add AOC11-2-70, and AOC11-2-90 for chromium and hexavalent chromium.

From: Weinberger, Michael
Sent: Tuesday, September 23, 2014 3:03 PM
To: 'Cyrus Razmara'; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74264) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Cyrus, please analyze AOC11-2-35, AOC11-2-70, and AOC11-2-90 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Tuesday, September 16, 2014 2:24 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74264) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil and water samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955/TM-B1" located in Burbank, CA.

AETL Job No: 74264 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

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301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/23/2014
Date Reported 10/01/2014

Job Number	Order Date	Client
74488	09/23/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 17 samples with the following specification on 09/23/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74488.01	AOC8/9-1-60	09/02/2014	Soil	1
74488.02	AOC8/9-2-60	09/02/2014	Soil	1
74488.03	AOC8/9-3-60	09/02/2014	Soil	1
74488.04	AOC8/9-4-40	09/03/2014	Soil	1
74488.05	AOC1-1-35	09/03/2014	Soil	1
74488.07	AOC11-2-70	09/04/2014	Soil	1
74488.08	AOC11-2-90	09/04/2014	Soil	1
74488.09	AOC2-1-40	09/04/2014	Soil	1
74488.10	AOC2-1-70	09/04/2014	Soil	1
74488.11	AOC2-1-125	09/04/2014	Soil	1
74488.12	AOC3-1-45	09/05/2014	Soil	1
74488.13	AOC3-1-75	09/05/2014	Soil	1
74488.14	AOC3-1-95	09/06/2014	Soil	1
74488.15	AOC7-2-135	09/09/2014	Soil	1
74488.16	AOC5-1-125	09/09/2014	Soil	1
74488.17	AOC7-1-120	09/10/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	09/30/2014	2	Normal	mg/Kg
(7199) ^ BOU	09/30/2014	2	Normal	mg/Kg
ASTM-D2216	09/30/2014	2	Normal	% wt

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74488.06	AOC11-2-35	09/04/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/30/2014	2	Normal	--

Continued

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Project ID: 100-SBO-T32955
Date Received 09/23/2014
Date Reported 10/01/2014

Job Number	Order Date	Client
74488	09/23/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0926141C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/26/2014				
Preparation Method			3050B				
Date Analyzed			09/30/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0926141C5

Our Lab I.D.			74488.01	74488.02	74488.03	74488.04	74488.05
Client Sample I.D.			AOC8/9-1-60	AOC8/9-2-60	AOC8/9-3-60	AOC8/9-4-40	AOC1-1-35
Date Sampled			09/02/2014	09/02/2014	09/02/2014	09/03/2014	09/03/2014
Date Prepared			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/30/2014	09/30/2014	09/30/2014	09/30/2014	09/30/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	7.77	4.69	9.16	7.65	3.68

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0926141C5

Our Lab I.D.			74488.07	74488.08	74488.09	74488.10	74488.11
Client Sample I.D.			AOC11-2-70	AOC11-2-90	AOC2-1-40	AOC2-1-70	AOC2-1-125
Date Sampled			09/04/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/30/2014	09/30/2014	09/30/2014	09/30/2014	09/30/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	3.49	2.88	19.6	20.3	6.25

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0926141C5

Our Lab I.D.			74488.12	74488.13	74488.14	74488.15	74488.16
Client Sample I.D.			AOC3-1-45	AOC3-1-75	AOC3-1-95	AOC7-2-135	AOC5-1-125
Date Sampled			09/05/2014	09/05/2014	09/06/2014	09/09/2014	09/09/2014
Date Prepared			09/26/2014	09/26/2014	09/26/2014	09/26/2014	09/26/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			09/30/2014	09/30/2014	09/30/2014	09/30/2014	09/30/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.350	1.000	10.4	4.65	5.76	15.4	13.5

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0926141C5

Our Lab I.D.			74488.17				
Client Sample I.D.			AOC7-1-120				
Date Sampled			09/10/2014				
Date Prepared			09/26/2014				
Preparation Method			3050B				
Date Analyzed			09/30/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.350	1.000	10.5				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092414-1

Our Lab I.D.			Method Blank	74488.01	74488.02	74488.03	74488.04
Client Sample I.D.				AOC8/9-1-60	AOC8/9-2-60	AOC8/9-3-60	AOC8/9-4-40
Date Sampled				09/02/2014	09/02/2014	09/02/2014	09/03/2014
Date Prepared			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	0.533	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092414-1

Our Lab I.D.			74488.05	74488.07	74488.08	74488.09	74488.10
Client Sample I.D.			AOC1-1-35	AOC11-2-70	AOC11-2-90	AOC2-1-40	AOC2-1-70
Date Sampled			09/03/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	0.652	0.217

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092414-1

Our Lab I.D.			74488.11	74488.12	74488.13	74488.14	74488.15
Client Sample I.D.			AOC2-1-125	AOC3-1-45	AOC3-1-75	AOC3-1-95	AOC7-2-135
Date Sampled			09/04/2014	09/05/2014	09/05/2014	09/06/2014	09/09/2014
Date Prepared			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	2.37

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092414-1

Our Lab I.D.			74488.16	74488.17			
Client Sample I.D.			AOC5-1-125	AOC7-1-120			
Date Sampled			09/09/2014	09/10/2014			
Date Prepared			09/24/2014	09/24/2014			
Preparation Method			3060A	3060A			
Date Analyzed			09/24/2014	09/24/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.10	0.10	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092414-1

Our Lab I.D.			Method Blank	74488.01	74488.02	74488.03	74488.04
Client Sample I.D.				AOC8/9-1-60	AOC8/9-2-60	AOC8/9-3-60	AOC8/9-4-40
Date Sampled				09/02/2014	09/02/2014	09/02/2014	09/03/2014
Date Prepared			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	5.50	4.60	7.50	3.00

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092414-1

Our Lab I.D.			74488.05	74488.07	74488.08	74488.09	74488.10
Client Sample I.D.			AOC1-1-35	AOC11-2-70	AOC11-2-90	AOC2-1-40	AOC2-1-70
Date Sampled			09/03/2014	09/04/2014	09/04/2014	09/04/2014	09/04/2014
Date Prepared			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	19.6	5.00	4.90	11.0	4.17

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092414-1

Our Lab I.D.			74488.11	74488.12	74488.13	74488.14	74488.15
Client Sample I.D.			AOC2-1-125	AOC3-1-45	AOC3-1-75	AOC3-1-95	AOC7-2-135
Date Sampled			09/04/2014	09/05/2014	09/05/2014	09/06/2014	09/09/2014
Date Prepared			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	5.00	11.1	12.3	13.0	4.30

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **14**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092414-1

Our Lab I.D.			74488.16	74488.17			
Client Sample I.D.			AOC5-1-125	AOC7-1-120			
Date Sampled			09/09/2014	09/10/2014			
Date Prepared			09/24/2014	09/24/2014			
Preparation Method			ASTM-D2216	ASTM-D2216			
Date Analyzed			09/24/2014	09/24/2014			
Matrix			Soil	Soil			
Units			% wt	% wt			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Moisture Content	0.1	0.1	6.64	12.2			

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QUALITY CONTROL RESULTS

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San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **15**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0926141C5; Dup or Spiked Sample: 74488.01; LCS: Clean Sand; QC Prepared: 09/26/2014; QC Analyzed: 09/30/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	7.34	10.0	16.9	95.6	10.0	15.8	84.6	12.2	75-125	<15

QC Batch No: 0926141C5; Dup or Spiked Sample: 74488.01; LCS: Clean Sand; QC Prepared: 09/26/2014; QC Analyzed: 09/30/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	0.990	99.0	1.00	0.950	94.5	4.65	75-125	<15	

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QUALITY CONTROL RESULTS

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San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **16**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092414-1; Dup or Spiked Sample: 74488.01; LCS: Clean Sand; QC Prepared: 09/24/2014; QC Analyzed: 09/24/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.273	109	0.250	0.265	106	2.8	80-120	<20

QC Batch No: 092414-1; Dup or Spiked Sample: 74488.01; LCS: Clean Sand; QC Prepared: 09/24/2014; QC Analyzed: 09/24/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.244	97.6	0.250	0.244	97.6	<1	80-120	<20	

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San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

Page: **17**

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74488	09/23/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092414-1; Dup or Spiked Sample: 74488.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	5.50	5.40	1.8	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**8**
Date Received	**09/24/2014**
Date Reported	**10/01/2014**

Job Number	Order Date	Client
74496	09/24/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 4 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

1/4

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
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SHIP TO: 74496

CHAIN OF CUSTODY RECORD

~~74349~~

DATE 09/11/14 PAGE 1 OF 2

CLIENT: LMC
PROJECT NAME: Burbank Soils Inv
PROJECT MANAGER: T.Millenewe/m. Weinberger
TC #: 100-SBO-T32955
SAMPLERS (Signature): [signature]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL
* Added: 09/24/14 NORMAL AK 0930

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom SW6020	Hex chrom SW7199	HOLD	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC13-1-5	09/11/14	1046			X		U	S	SB	1	NR	74349.01
2.	AOC13-1-10	↓	1050	X	X			↓	↓	↓	1		74349.02
3.	AOC13-1-15	↓	1055			X		↓	↓	↓	1		74349.03
4.	AOC13-1-20	↓	1104	X	X			↓	↓	↓	1		74349.04
5.	AOC13-1-25	↓	1110	X	X			↓	↓	↓	1		74349.05
6.	AOC13-1-30	↓	1115			X		↓	↓	↓	1		74349.06
7.	AOC13-1-35	↓	1121	X	X			↓	↓	↓	1		74349.07
8.	AOC13-1-50	↓	1151	*	*	X	* 74496.01	↓	↓	↓	1		~~74349.08~~
9.	EB-091114-B	↓	0700	X	X			↓	W	P	2		74349.09
10.	AOC13-1-100-DUP	↓	1444	X	X			↓	S	SB	1		74349.10

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY: Vanessa Calder	[signature]	TETRA TECH, INC.	9/11/14	1638
RECEIVED BY: Samis-P	[signature]	AETL	9/11/14	1638
RELINQUISHED BY: Samis-P	[signature]	AETL	9/11/14	1715
RECEIVED BY: Jean Claude	[signature]	AETL	09/11/14	1715

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 11
METHOD OF SHIPMENT/SHIPMENT NO.: Courrier
Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: 74496 / ~~74349~~

CHAIN OF CUSTODY RECORD

DATE 09/11/14 PAGE 2 OF 2

CLIENT: LMC
PROJECT NAME: Burbank Soils INV.
PROJECT MANAGER: T. Vilenueve, M. Weinberger
TC #: 100-SBO-T-32955
SAMPLERS (Signatures):

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chromium SW 6020	Hex Chromium SW 7199	HOLD	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC13-1-55	09/11/14	1158	X	X			U	S	SB	1	NR	74349.11
2.	AOC13-1-60	09/11/14	1203	X	X						1		74349.12
3.	AOC13-1-65	09/11/14	1320			X					1		74349.13
4.	AOC13-1-70	09/11/14	1329	*	*	X	*				1		~~74349.14~~
5.	AOC13-1-75	09/11/14	1339	X	X						1		74349.15
6.	AOC13-1-80	09/11/14	1348	X	X						1		74349.16
7.	AOC13-1-85	09/11/14	1400			X					1		74349.17
8.	AOC13-1-90	09/11/14	1406	X	X						1		74349.18
9.	AOC13-1-95	09/11/14	1429			X					1		74349.19
10.	AOC13-1-100	09/11/14	1443	X	X						1		74349.20

74496.02

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL
* Added 09/24/14
Normal (Ak)
0930

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SB - Brass Sleeve
SS - Stainless Steel Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY: Vanessa Calder	SIGNATURE	TETRA TECH, INC.	DATE 9/11/14	TIME 1638	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: Sagis	SIGNATURE	COMPANY AETL	DATE 9/11/14	TIME 1638	METHOD OF SHIPMENT/SHIPMENT NO. COURIER
RELINQUISHED BY: Sagis	SIGNATURE	COMPANY AETL	DATE 9/11/14	TIME 1715	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Claude	SIGNATURE	COMPANY AETL	DATE 09/11/14	TIME 1715	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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SHIP TO: 74496

74368

CHAIN OF CUSTODY RECORD

DATE 09/12/14 PAGE 2 OF 3

CLIENT: LMC

PROJECT NAME: LMC Burbank soils inv.

PROJECT MANAGER: ~~T.~~ Villeneuve/M. Weinberger

TC #: 100-SBO-

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chromium SW 6020	Hexavalent Chromium SW 7196	HOLD	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	~~AOC13~~-2-55	09/12/14	0753			X		U	S	SB	1	NR	74368.11
2.	AOC13-2-60	09/12/14	0759	X	X						1		74368.12
3.	AOC13-2-65	09/12/14	0809	X	X						1		74368.13
4.	AOC13-2-70	09/12/14	0824			X					1		74368.14
5.	AOC13-2-75	09/12/14	0835	*	*	X	*				1		~~74368.15~~
6.	AOC13-2-85	09/12/14	0907	X	X						1		74368.16
7.	AOC13-2-90	09/12/14	0913	X	X						1		74368.17
8.	AOC13-2-95	09/12/14	0920			X					1		74368.18
9.	AOC13-2-100	09/12/14	0928	X	X						1		74368.19
10.	AOC13-2-100-Dup	09/12/14	0930	X	X						1		74368.20

74496.03

PARAMETERS

OBSERVATIONS/COMMENTS: Please report all data to MDL
* Added on 9/24/14
Normal (AK) 0930

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
P. Henderson		TETRA TECH, INC.	09/12/14	1400
RECEIVED BY: Antin	SIGNATURE	COMPANY: ACTL	DATE: 09/12/14	TIME: 1400
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10

METHOD OF SHIPMENT/SHIPMENT NO.: Courier

Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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SHIP TO: AETL 74496

CHAIN OF CUSTODY RECORD

74390

DATE 9-15-14 PAGE 2 OF 3

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr 6+	Hold	Moisture	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC14-1-45	9-15-14	0950			X		U	S	SB	1	NP	74390.11
2.	AOC14-1-50		0955	X	X								74390.12
3.	AOC14-1-55		1005			X							74390.13
4.	AOC14-1-60		1015	X	X								74390.14
5.	AOC14-1-65		1025			X				*			74390.15
6.	AOC14-1-70		1035	X	X					G			74390.16
7.	AOC14-1-70-DUP		1034	X	X					G			74390.17
8.	AOC14-1-75		1040			X				SB			74390.18
9.	AOC14-1-80		1045	X	X					SB			74390.19
10.	AOC14-1-90		1110	*	*	X	*			SB			~~74390.20~~ 74496.04

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL
* Added 09/24/14
Normal (AK) 0930

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY: D. MCALISTER	SIGNATURE	TETRA TECH, INC.	DATE 9/15/14	TIME 1600	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: Sang S P	SIGNATURE	COMPANY AETC	DATE 9/15/14	TIME 1600	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: Sang S P	SIGNATURE	COMPANY AETC	DATE 9/15/14	TIME 1620	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Actia	SIGNATURE	COMPANY AETC	DATE 09/15/14	TIME 1620	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Wednesday, September 24, 2014 8:42 AM
To: Cyrus Razmara; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74349) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Cyrus, please analyze AOC13-1-50 and AOC13-1-70 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Thursday, September 18, 2014 4:32 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74349) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank, CA.

AETL Job No: 74349 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Wednesday, September 24, 2014 8:42 AM
To: Cyrus Razmara; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74368) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Cyrus, please analyze AOC13-2-75 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Monday, September 22, 2014 5:07 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74368) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank, CA.

AETL Job No: 74368 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Wednesday, September 24, 2014 8:43 AM
To: Cyrus Razmara; Cyphers, Darrell; Jim Lin (jiml@aetlab.com); Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74390) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Cyrus, please analyze AOC14-1-90 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Monday, September 22, 2014 5:09 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74390) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank, CA.

AETL Job No: 74390 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/24/2014
Date Reported 10/01/2014

Job Number	Order Date	Client
74496	09/24/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 4 samples with the following specification on 09/24/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74496.01	AOC13-1-50	09/11/2014	Soil	1
74496.03	AOC13-2-75	09/12/2014	Soil	1
74496.04	AOC14-1-90	09/15/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	10/01/2014	2	Normal	mg/Kg
(7199) ^ BOU	10/01/2014	2	Normal	mg/Kg
ASTM-D2216	10/01/2014	2	Normal	% wt

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74496.02	AOC13-1-70	09/11/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	10/01/2014	2	Normal	mg/Kg
(7199) ^ BOU	10/01/2014	2	Normal	mg/Kg
ASTM-D2216	10/01/2014	2	Normal	% wt
EDF	10/01/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74496	09/24/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0926141C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			09/26/2014				
Preparation Method			3050B				
Date Analyzed			09/30/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium	0.035	0.100	ND				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74496	09/24/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0926141C5

Our Lab I.D.			74496.01	74496.02	74496.03	74496.04	
Client Sample I.D.			AOC13-1-50	AOC13-1-70	AOC13-2-75	AOC14-1-90	
Date Sampled			09/11/2014	09/11/2014	09/12/2014	09/15/2014	
Date Prepared			09/26/2014	09/26/2014	09/26/2014	09/26/2014	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			09/30/2014	09/30/2014	09/30/2014	09/30/2014	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			10	10	10	10	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Chromium	0.350	1.000	2.85	3.80	2.30	41.1	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74496	09/24/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092414-1

Our Lab I.D.			Method Blank	74496.01	74496.02	74496.03	74496.04
Client Sample I.D.				AOC13-1-50	AOC13-1-70	AOC13-2-75	AOC14-1-90
Date Sampled				09/11/2014	09/11/2014	09/12/2014	09/15/2014
Date Prepared			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74496	09/24/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092414-1

Our Lab I.D.			Method Blank	74496.01	74496.02	74496.03	74496.04
Client Sample I.D.				AOC13-1-50	AOC13-1-70	AOC13-2-75	AOC14-1-90
Date Sampled				09/11/2014	09/11/2014	09/12/2014	09/15/2014
Date Prepared			09/24/2014	09/24/2014	09/24/2014	09/24/2014	09/24/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			09/25/2014	09/25/2014	09/25/2014	09/25/2014	09/25/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	ND	2.00	3.40	2.10	0.700

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QUALITY CONTROL RESULTS

Ordered By

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: 6

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74496	09/24/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 0926141C5; Dup or Spiked Sample: D74496.01; LCS: Clean Sand; QC Prepared: 09/26/2014; QC Analyzed: 09/30/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	2.79	10.0	11.4	86.1	10.0	12.2	94.1	8.88	75-125	<15

QC Batch No: 0926141C5; Dup or Spiked Sample: D74496.01; LCS: Clean Sand; QC Prepared: 09/26/2014; QC Analyzed: 09/30/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	1.00	1.00	100	1.00	0.960	95.9	4.19	75-125	<15	

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Page: **7**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74496	09/24/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 092414-1; Dup or Spiked Sample: 74496.01; LCS: Clean Sand; QC Prepared: 09/24/2014; QC Analyzed: 09/24/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.236	94.2	0.250	0.236	94.2	<1	80-120	<20

QC Batch No: 092414-1; Dup or Spiked Sample: 74496.01; LCS: Clean Sand; QC Prepared: 09/24/2014; QC Analyzed: 09/24/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.244	97.6	0.250	0.244	97.6	<1	80-120	<20	

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Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74496	09/24/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 092414-1; Dup or Spiked Sample: C74496.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	2.00	2.10	4.9	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc. **301 E. Vanderbilt Way Suite 450** **San Bernardino, CA 92408-3559**

Number of Pages	**36**
Date Received	**09/09/2014**
Date Reported	**10/22/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74559	09/29/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 9 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Attachment: 13 pages

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

74559 Y7 ~~X~~ Q

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETR

~~74237~~

CHAIN OF CUSTODY RECORD

DATE 9/2/2014 PAGE 1 OF 2

CLIENT: LMC

PROJECT NAME: BURBANK METALS INV.

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBO-T32935/TM-B1,03

SAMPLERS (Signatures): [signature]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL
*-Report all results in Dry Weight

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 Cr	7199 Cr 6+	HOLD	Moisture	Cr-VI Study	Iron & Manganese (6020)	T. Sulfide	TOC	pH	SPLP Cr-VI		FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC8/9-1-5	9-2-14	1045	X	X		*								X	S	SB	1	NR	74237.01
2.	AOC8/9-1-10		1055			X														74237.02
3.	AOC8/9-1-15		1100	X	X		*	⊛	⊛	⊛	⊛	⊛	⊛	74559.01						~~74237.03~~
4.	AOC8/9-1-20		1105			X														74237.04
5.	AOC8/9-1-25		1115	X	X		*													74237.05
6.	AOC8/9-1-30		1120			X														74237.06
7.	AOC8/9-1-35		1133			X														74237.07
8.	AOC8/9-1-40		1145	X	X		*													74237.08
9.	AOC8/9-1-45		1150	X	X		*	⊛						74559.02						~~74237.09~~
10.	AOC8/9-1-45-DUP		1151	X	X		*													74237.10

FILTERING: ☐ FILTERED ☐ UNFILTERED

MATRIX TYPE: S - Soil, M - Sediment, W - Water

CONTAINER TYPE: G - Glass Bottle/Jar, SS - Stainless Steel Sleeve, SB - Brass Sleeve, P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL, NaOH, NR (None required), H_2SO_4

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY: D. McALISTER	[signature]	TETRA TECH, INC.	9-2-14	1630
RECEIVED BY: Sargis-P	[signature]	AETL	9/2/14	1630
RELINQUISHED BY: Sargis-P	[signature]	AETL	9/2/14	1715
RECEIVED BY: Lean Claude	[signature]	AETL	9/02/14	1715

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10

METHOD OF SHIPMENT/SHIPMENT NO.: COURIER

Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

X:\GIS\ATT-MISC\COCR.CDR

74559 ~~74488~~ 2/7 8/6/15

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301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

CHAIN OF CUSTODY RECORD

~~74237~~

DATE 9-2-2014 PAGE 2 OF 2

CLIENT: LMC
PROJECT NAME: BURBANK METALS INV.
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955/TM-B1.03
SAMPLERS (Signature): [signature]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL
*Added 09/23/14 normal (SD) 1540

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	HOLD		moisture	Cr III study	Fe&Mn (6020)	T. Sulfide	TOC	pH	SPLP Cr III			FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC8/9-1-50	9-2-14	1155			X											U	S	SB	1	NR	74237.11
2.	AOC8/9-1-55	(	1200	X	X												(	(	(	(	(	74237.12
3.	AOC8/9-1-60		1210	*	*	X		*	(*)	(*)	(*)	(*)	(*)	(*)								~~74237.13~~ 74559.03
4.	EB-090214-A	↓	924	X	X												↓	↓	↓	↓	↓	74237.14
5.																						
6.																						
7.																						
8.																						
9.																						
10.																						

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil, M - Sediment, W - Water

CONTAINER TYPE: G - Glass Bottle/Jar, SS - Stainless Steel Sleeve, SB - Brass Sleeve, P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL, NR (None required), NaOH, H_2SO_4

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY [signature]	R McALLISTER	TETRA TECH, INC.	9-2-14	1630
RECEIVED BY Sangu S	[signature]	AETL	9/2/14	1630
RELINQUISHED BY Sangu S	[signature]	AETL	9/2/14	1715
RECEIVED BY Jean Vande	[signature]	AETL	09/02/14	1715

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10

METHOD OF SHIPMENT/SHIPMENT NO. COURIER

Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

DATE 09/02/14 PAGE 1 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soil Investigation
PROJECT MANAGER: T. Villeneuve/M. Weinberg
TC #:
SAMPLERS (Signatures):

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Hexa Chrom SW7199	HOLD	8260B	Moisture	Cr VI study	Fe & Mn 6010	T Sulfide	TOC	PH	SPLP				FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	EB-090214-B	09/02/14	0930	X	X		X											U	W	G/P	5	see label	74238.01
2.	AOC8/9-2-5		1024	X	X			*											S	SB	1	NR	74238.02
3.	AOC8/9-2-10		1029	~~X~~	X																1	NR	74238.03
4.	AOC8/9-2-15		1036	X	X			*													1	NR	74238.04
5.	AOC8/9-2-20		1042	~~X~~	X																1	NR	74238.05
6.	AOC8/9-2-25		1049	~~X~~	X																1	NR	74238.06
7.	AOC8/9-2-30		1056	X	X			*	*	*	*	~~X~~	~~X~~	~~X~~	7.04						1	NR	74238.07
8.	AOC8/9-2-35		1101	~~X~~	X																1	NR	74238.08
9.	AOC8/9-2-40		1107	X	X			*	*			74559.05									1	NR	74238.09
10.	AOC8/9-2-45	↓	1111	X	X			*										↓	↓	↓	1	NR	74238.10

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14 of 32
Philip Henderson		TETRA TECH, INC.	09/02/14	1630	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Sangis-P		AGTL	9/2/14	1630	Courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
Sangis-P		AGTL	9/2/14	1715	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Sian Saunders		AETL	09/02/14	1715	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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CHAIN OF CUSTODY RECORD

~~74238~~

DATE 09/02/14 PAGE 2 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soil Investigation
PROJECT MANAGER: T Villeneuve/M. Weinberger
TC #:
SAMPLERS (Signatures): Philip Henderson

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Hex chrom SW7199	HOLD	Moisture	CrVI Study	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC8/9-2-50	09/02/14	1123	~~X~~	~~X~~	X			V	S	SB	1	NR	74238.11
2.	AOC8/9-2-55		1128	X	X		*	⊛			SB	1	NR	74238.12
3.	AOC8/9-2-60		1130	~~X~~	~~X~~	X					SB	1	NR	74238.13
4.	AOC8/9-2-40-DVP		1108	X	X		*				G	1	NR	74238.14
5.	AOC8/9-2-60-DVP		1131	X	X		*				G	1	NR	74238.15
6.	AOC8/9-3-5		1435	X	X		*				SB	1	NR	74238.16
7.	AOC8/9-3-10		1440	~~X~~	~~X~~	X						1	NR	74238.17
8.	AOC8/9-3-15		1442	X	X		*					1	NR	74238.18
9.	AOC8/9-3-20		1447	~~X~~	~~X~~	X						1	NR	74238.19
10.	AOC8/9-3-25		1449	X	X		*		↓	↓	↓	1	NR	74238.20

PARAMETERS

74559.06

TURN-AROUND TIME

Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
Philip Henderson		TETRA TECH, INC.	09/02/14	1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10 of 32
RECEIVED BY: Sargis P		COMPANY: AETL	DATE: 9/2/14	TIME: 1630	METHOD OF SHIPMENT/SHIPMENT NO.: Courier
RELINQUISHED BY: Sargis P		COMPANY: AETL	DATE: 9/2/14	TIME: 1715	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Daude		COMPANY: AETL	DATE: 09/02/14	TIME: 1715	

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74559 ~~74488~~ ~~74238~~

~~3/15~~ 5/7

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

CHAIN OF CUSTODY RECORD

DATE 09/02/14 PAGE 3 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/H. Weinberger

TC #:

SAMPLERS (Signature): Philip Henderson

LINE ITEM	SAMPLE NO.	DATE	TIME	Chromium SW6020	Hex chrom SW7199	Hold		moisture	Cr VI study	Iron & Manganese	T. Sulfide	TOC	pH	SPLP Cr VI				FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC 8/9-3-30	09/02/14	1454	X	X	X												U	S	SB	1	NR	74238-21
2.	AOC 8/9-3-35		1459	X	X	X															1		74238-22
3.	AOC 8/9-3-40		1502	X	X																1		74238-23
4.	AOC 8/9-3-45		1506	X	X																1		74238-24
5.	AOC 8/9-3-50		1510			X															1		74238-25
6.	AOC 8/9-3-55		1514	X	X																1		74238-26
7.	AOC 8/9-3-60		1520	X	X	X		X	X	X	X	X	X	X							1		~~74238-27~~ 74559-01
8.	AOC 8/9-3-55-DUP	09/02/14	1515	X	X															G	1		74238-28
9.																							
10.																							

OBSERVATIONS/COMMENTS: Please report all data to MDL
* Added 09/23/14 normal (JW 1540

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
Philip Henderson		TETRA TECH, INC.	09/02/14	1630	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 8 of 32
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Sargis P		AGTC	9/2/14	1630	courrier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
Sargis P		AGTC	9/2/14	1715	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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74559

9/4 @ 6/7

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74250

DATE 9-3-2014 PAGE 1 OF 2

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr^{6+}	HOLD	Cr III Study	Fe & Mn 6020	T. Sulfide	TOC	pH	SPLP Cr VI						FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	EB-090314-A	9-3-14	805	X	X													U	W	G/P	5	NP/Ice	74250.01
2.	AOC8/9-4-10		910	X	X													S	S	SB	1	NR	74250.02
3.	AOC8/9-4-15		918			X																	74250.03
4.	AOC8/9-4-20		922	X	X																		74250.04
5.	AOC8/9-4-25		932			X																	74250.05
6.	AOC8/9-4-30		938	X	X																		74250.06
7.	AOC8/9-4-35		942			X																	74250.07
8.	AOC8/9-4-40		956			X																	74250.08
9.	AOC8/9-4-45		1005	X	X		⊛	⊛	⊛	⊛	⊛	⊛	74559-02											74250.09
10.	AOC8/9-4-45+DUP		1006	X	X																		74250.10

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14
D. MCALISTER		TETRA TECH, INC.	9-3-2014	1635	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
THOMAS		AETL	9-3-14	1635	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
THOMAS		AETL	9-3-14	1650	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
ANTIA		AETL	09/03/14	1650	

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74559.

7/7

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74250

CHAIN OF CUSTODY RECORD

DATE 9-3-2014 PAGE 2 OF 2

CLIENT: GMC

PROJECT NAME: BURBANK ~~SCAE~~ METALS

PROJECT MANAGER: M. WEINBERGER

TC#: 100-SBO-T32955

SAMPLERS (Signature)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr6+	HOLD	GM Study											FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC8/9-4-50	9-3-14	1015			X												U	S	SB	1	NR	74250.11
2.	AOC8/9-4-55	"	1020	X	X		⊛				74559.09							"	"	"	"	"	74250.12
3.	AOC8/9-4-60	"	1050			X												"	"	"	"	"	74250.13
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
MCALISTER		TETRA TECH, INC.	9-3-2014	1635	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 3
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
THOMAS		AETC	9-3-14	1635	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
THOMAS		AETC	9-3-14	1650	
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	
Artin		AETC	09/03/14	1650	

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DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

JIM LIN

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Monday, September 29, 2014 3:54 PM
To: Cyrus Razmara (cyrus@aetlab.com); Jim Lin (jiml@aetlab.com)
Cc: Villeneuve, Thomas; Wilson, Michael; Waddell, Rick
Subject: Attenuation analyses

Good afternoon, Cyrus and Jim. We would like to run the following additional analyses:
We would like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote), total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions*, and hexavalent chromium analyses of the SPLP leachate on the following samples:

- AOC8/9-1-15 and AOC8/9-1-60 (SDG 74237)
- AOC8/9-3-60 (SDG 74238)
- AOC8/9-4-45 (SDG 74250)

* The SPLP calls for a 20:1 (mL:g) ratio of synthetic rainwater to soil. This is very dilute and not representative of actual leaching. So instead we would like you to do a 2:1 ratio.

We would like to also like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote) on the following samples:

- AOC8/9-1-45 (SDG 74237)
- AOC8/9-2-30, AOC8/9-2-40, and AOC8/9-2-55 (SDG 74238)
- AOC8/9-4-55 (SDG 74250)

Let us know if you have any questions. We will follow up with additional analyses tomorrow, but please note that the above borings were drilled 9/2/14 to 9/3/14. We are aware that the holding time for pH and sulfides are expired. However, TOC will not begin expiring until tomorrow morning.

Michael B Weinberger | Senior Geologist
Direct: 626.470.2431 | Mobile: 626.319.9207 | Personal Fax: 626.470.2631
michael.weinberger@tetratech.com

Tetra Tech , Divisions
3475 E. Foothill Blvd. | Pasadena, CA 91107 | www.tetratech.com

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Monday, October 06, 2014 4:39 PM
To: Cyrus Razmara (cyrus@aetlab.com); Jim Lin (jiml@aetlab.com)
Cc: Villeneuve, Thomas; Wilson, Michael; Waddell, Rick
Subject: RE: Attenuation analyses

Good afternoon, Cyrus. I received word from Rick Waddell. We would also like to **cancel** the total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A), pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions, and hexavalent chromium analyses of the SPLP leachate **on AOC13-1-100 (SDG 74349) and AOC19-2-100 (SDG 74438). This effectively cancels all analysis requests from this morning's email.**

Instead, these are the analyses we would like:
We would like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote), total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions, and hexavalent chromium analyses of the SPLP leachate on the following samples:

- AOC11-1R-35(SDG 74470)
- AOC11-1R-100 (SDG 74470)

We would like to also like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote) on the following samples:

- AOC13-1-55 (SDG 74349)
- AOC13-2-100 (SDG 74368)

We would like total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions, and hexavalent chromium analyses of the SPLP leachate on the following samples:

- AOC8/9-2-30 (SDG 74238) (note we already ran hexavalent chromium attenuation testing on this sample)

To sum it up, we should have 12 samples for hexavalent chromium attenuation testing only, and 12 samples for hexavalent chromium attenuation testing, iron, manganese, sulfide, TOC, pH, and SPLP.
Hexavalent chromium attenuation testing only:

- AOC8/9-1-45
- AOC8/9-2-40 and AOC8/9-2-55
- AOC8/9-4-55
- AOC2-1-150
- AOC5-1-115 and AOC5-1-150
- AOC6-1-150
- AOC7-2-75 and AOC7-2-110
- AOC13-1-55
- AOC13-2-100

Hexavalent chromium attenuation testing, iron, manganese, sulfide, TOC, pH, and SPLP:

- AOC8/9-1-15 and AOC8/9-1-60
- AOC8/9-2-30
- AOC8/9-3-60
- AOC8/9-4-45
- AOC7-1-145
- AOC7-2-10, AOC7-2-55, AOC7-2-120, and AOC7-2-135

- AOC11-1R-35 and AOC11-1R-100

From: Weinberger, Michael
Sent: Monday, October 06, 2014 3:40 PM
To: Cyrus Razmara (cyrus@aetlab.com); Jim Lin (jiml@aetlab.com)
Cc: Villeneuve, Thomas; Wilson, Michael; Waddell, Rick
Subject: RE: Attenuation analyses

Good afternoon, Cyrus and Jim. Please hold off on running hexavalent chromium attenuation testing for the following samples:

- AOC13-1-100 (SDG 74349)
- AOC19-2-100 (SDG 74438)
- AOC13-1-55 and AOC13-1-80 (SDG 74349)
- AOC13-2-100 (SDG 74368)
- AOC16-1-100 (SDG 74366)
- AOC18-1-100 (SDG 74424)
- AOC20-1-100 (SDG 74407)

We do not have as much money as we thought we had available. I will be assigning four more hexavalent chromium attenuation analyses, but I want to make sure we assign the analyses on the correct samples.

Please continue to run total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions, and hexavalent chromium analyses of the SPLP leachate on AOC13-1-100 (SDG 74349) and AOC19-2-100 (SDG 74438).

From: Weinberger, Michael
Sent: Monday, October 06, 2014 9:57 AM
To: Cyrus Razmara (cyrus@aetlab.com); Jim Lin (jiml@aetlab.com)
Cc: Villeneuve, Thomas; Wilson, Michael; Waddell, Rick
Subject: RE: Attenuation analyses

Good afternoon, Cyrus and Jim. We would like to run the following additional analyses:
We would like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote), total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions*, and hexavalent chromium analyses of the SPLP leachate on the following samples:

- AOC13-1-100 (SDG 74349)
- AOC19-2-100 (SDG 74438)

* Please use the agreed upon ratio.

We would like to also like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote) on the following samples:

- AOC13-1-55 and AOC13-1-80 (SDG 74349)
- AOC13-2-100 (SDG 74368)
- AOC16-1-100 (SDG 74366)
- AOC18-1-100 (SDG 74424)
- AOC20-1-100 (SDG 74407)

Let us know if you have any questions.

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, October 07, 2014 3:41 PM
To: Cyrus Razmara; Wilson, Michael; Villeneuve, Thomas; Waddell, Rick
Subject: RE: Chromium Questions

Good afternoon, Cyrus. Per our earlier conversation, please run all of SPLP analyses using Extract Fluid #2 (pH=5.00). Also, please run hexavalent chromium, total chromium, iron, and pH on all extracts (both the Extract Fluid #2 and Extract Fluid #3; I believe that Extract Fluid #3 was already analyzed for hexavalent chromium).

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Tuesday, October 07, 2014 10:39 AM
To: Weinberger, Michael; Wilson, Michael; Villeneuve, Thomas; Waddell, Rick
Subject: RE: Chromium Questions

Hi Michael,

You are correct with regards to the extraction fluids, however the method does not specify any extraction fluid for chromium hexavalent. If we use extraction fluid # 2 for chromium hexavalent, because of its pH 5.0, all chromium hexavalent will be converted to chromium trivalent.

In STLC extractions of chromium hexavalent, the recommended extraction fluid is also DI water.

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

From: Weinberger, Michael [mailto:Michael.Weinberger@tetratech.com]
Sent: Tuesday, October 07, 2014 9:27 AM
To: Wilson, Michael; Villeneuve, Thomas; Waddell, Rick; Cyrus Razmara (cyrus@aetlab.com)
Subject: RE: Chromium Questions

Good morning, Cyrus. When I read the literature on EPA Method 1312, my interpretation is that Extraction Fluid #2 is used west of the Mississippi. Extraction Fluid #2 is described as reagent water with sulfuric and nitric acids (pH=5.00). Extraction Fluid #3 is reagent water, but this is only used for cyanide and volatiles leachability. Is my interpretation incorrect? Does California have a different standard for hexavalent chromium?

From: Wilson, Michael
Sent: Monday, October 06, 2014 5:45 PM
To: Weinberger, Michael; Villeneuve, Thomas; Waddell, Rick
Subject: FW: Chromium Questions

FYI

Available Cr(VI) Reducing Capacity Study
Bartlett and James (1988)

AETL Sample ID	Client Sample ID	Spiked Amount		Amount Recovered				CrVI-ARC	CrVI-ARC Dup	RPD
		(mg/L)	(µg/g)	Results (mg/L)	Dup. Results (mg/L)	Results (µg/g)	Dup. Results (µg/g)	(µg/g)	(µg/g)	
74559.01	AOC8/9-1-15	3.975	19.875	3.698	3.750	18.49	18.75	**1.39**	**1.13**	20.7
74559.02	AOC8/9-1-45	3.975	19.875	3.850	3.920	19.25	19.60	**0.63**	**0.27**	77.8
74559.03	AOC8/9-1-60	3.975	19.875	2.700	2.680	13.50	13.40	**6.38**	**6.48**	1.56
74559.04	AOC8/9-2-30	3.975	19.875	2.775	2.742	13.875	13.71	**6.00**	**6.17**	2.71
74559.05	AOC8/9-2-40	3.975	19.875	3.825	3.726	19.125	18.63	**0.75**	**1.25**	49.6
74559.06	AOC8/9-2-55	3.975	19.875	4.250	4.120	21.25	20.60	**0.00**	**0.00**	0.00
74559.07	AOC8/9-3-60	3.975	19.875	3.850	3.920	19.25	19.60	**0.63**	**0.27**	77.8
74559.08	AOC8/9-4-45	3.975	19.875	4.000	3.980	20.00	19.90	**0.00**	**0.00**	0.00
74559.09	AOC8/9-4-55	3.975	19.875	3.875	3.750	19.375	18.75	**0.50**	**1.13**	76.9

AETL Sample ID	Client Sample ID	Spiked Amount		Amount Recovered				CrVI-ARC	CrVI-ARC Dup	RPD
		(mg/L)	(µg/g)	Results (mg/L)	Dup. Results (mg/L)	Results (µg/g)	Dup. Results (µg/g)	(µg/g)	(µg/g)	
74559.01	AOC8/9-1-15	2.1	10.5	1.850	1.900	9.25	9.50	**1.25**	**1.00**	22.2
74559.02	AOC8/9-1-45	2.1	10.5	2.000	1.980	10.00	9.90	**0.50**	**0.60**	18.2
74559.03	AOC8/9-1-60	8.033	40.165	7.320	7.310	36.60	36.55	**3.57**	**3.62**	1.39
74559.04	AOC8/9-2-30	8.033	40.165	7.600	7.580	38.00	37.90	**2.17**	**2.27**	4.51
74559.05	AOC8/9-2-40	2.1	10.5	2.070	2.000	10.35	10.00	**0.15**	**0.50**	108
74559.06	AOC8/9-2-55	2.1	10.5	2.170	2.180	10.85	10.90	**0.00**	**0.00**	0.00
74559.07	AOC8/9-3-60	2.1	10.5	2.120	2.110	10.60	10.55	**0.00**	**0.00**	0.00
74559.08	AOC8/9-4-45	2.1	10.5	2.100	2.090	10.50	10.45	**0.00**	**0.00**	0.00
74559.09	AOC8/9-4-55	2.1	10.5	1.970	1.923	9.85	9.62	**0.65**	**0.89**	30.6

AETL Sample ID	Client Sample ID	Spiked Amount		Amount Recovered				CrVI-ARC	CrVI-ARC Dup	RPD
		(mg/L)	(µg/g)	Results (mg/L)	Dup. Results (mg/L)	Results (µg/g)	Dup. Results (µg/g)	(µg/g)	(µg/g)	
74559.01	AOC8/9-1-15	1.03	5.15	0.825	0.832	4.125	4.160	**1.03**	**0.99**	3.47
74559.02	AOC8/9-1-45	1.03	5.15	0.925	0.920	4.625	4.600	**0.53**	**0.55**	4.65
74559.03	AOC8/9-1-60	2.1	10.5	1.725	1.820	8.625	9.100	**1.88**	**1.40**	29.0
74559.04	AOC8/9-2-30	1.03	5.15	0.600	0.612	3.000	3.060	**2.15**	**2.09**	2.83
74559.05	AOC8/9-2-40	1.03	5.15	1.025	1.030	5.125	5.150	**0.00**	**0.00**	0.00
74559.06	AOC8/9-2-55	1.03	5.15	1.125	1.122	5.625	5.610	**0.00**	**0.00**	0.00
74559.07	AOC8/9-3-60	1.03	5.15	1.000	1.000	5.000	5.000	**0.15**	**0.15**	0.00
74559.08	AOC8/9-4-45	1.03	5.15	1.075	1.060	5.375	5.300	**0.00**	**0.00**	0.00
74559.09	AOC8/9-4-55	1.03	5.15	1.000	1.020	5.000	5.100	**0.15**	**0.05**	100

Available Cr(VI) Reducing Capacity Study
Bartlett and James (1988)

AETL Sample ID	Client Sample ID	Mean CrVI-ARC (µg/g)
74559.01	AOC8/9-1-15	1.13
74559.02	AOC8/9-1-45	0.51
74559.03	AOC8/9-1-60	3.89
74559.04	AOC8/9-2-30	3.48
74559.05	AOC8/9-2-40	0.66
74559.06	AOC8/9-2-55	**0.00**
74559.07	AOC8/9-3-60	0.30
74559.08	AOC8/9-4-45	**0.00**
74559.09	AOC8/9-4-55	0.56

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301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/09/2014
Date Reported 10/22/2014

Job Number	Order Date	Client
74559	09/29/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 9 samples with the following specification on 09/29/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74559.01	AOC8/9-1-15	09/02/2014	Soil	1
74559.03	AOC8/9-1-60	09/02/2014	Soil	1
74559.04	AOC8/9-2-30	09/02/2014	Soil	1
74559.07	AOC8/9-3-60	09/02/2014	Soil	1
74559.08	AOC8/9-4-45	09/03/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(376.2)	10/06/2014	2	Normal	mg/Kg
(6020) ^ IRON	10/06/2014	2	Normal	mg/Kg
(6020) ^ MN-MG/KG	10/06/2014	2	Normal	mg/Kg
(9060)	10/06/2014	2	Normal	mg/Kg
9040B ^ SPLP II	10/06/2014	2	Normal	pH unit
9040B ^ SPLP III	10/06/2014	2	Normal	pH unit
9045C	10/06/2014	2	Normal	pH unit
CR6-ARC	10/06/2014	2	Normal	ug /g
SPLP ^ SPLP-II	10/06/2014	2	Normal	ug/L
SPLP ^ SPLP-III	10/06/2014	2	Normal	ug/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74559.02	AOC8/9-1-45	09/02/2014	Soil	1
74559.05	AOC8/9-2-40	09/02/2014	Soil	1
74559.06	AOC8/9-2-55	09/02/2014	Soil	1
74559.09	AOC8/9-4-55	09/03/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
CR6-ARC	10/06/2014	2	Normal	ug /g

Continued

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Tetra Tech, Inc. 301 E. Vanderbilt Way Suite 450 San Bernardino, CA 92408-3559	Project ID: 100-SBO-T32955 Date Received 09/09/2014 Date Reported 10/22/2014
Telephone: (909)381-1674 Attention: Michael Weinberger	

Job Number	Order Date	Client
74559	09/29/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 10012014

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			10/01/2014				
Preparation Method			3050B				
Date Analyzed			10/01/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Iron	0.005	0.010	ND				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 10012014

Our Lab I.D.			74559.01	74559.03			
Client Sample I.D.			AOC8/9-1-15	AOC8/9-1-60			
Date Sampled			09/02/2014	09/02/2014			
Date Prepared			10/01/2014	10/01/2014			
Preparation Method			3050B	3050B			
Date Analyzed			10/01/2014	10/01/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			500	500			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Iron	2.500	5	14,400	10,500			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 100814

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			10/08/2014				
Preparation Method			3050B				
Date Analyzed			10/09/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Iron	0.005	0.010	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 100814

Our Lab I.D.			74559.04				
Client Sample I.D.			AOC8/9-2-30				
Date Sampled			09/02/2014				
Date Prepared			10/08/2014				
Preparation Method			3050B				
Date Analyzed			10/09/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			500				
Analytes	**MDL**	**PQL**	**Results**				
Iron	2.500	5	6,500				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 10012014

Our Lab I.D.			74559.07	74559.08			
Client Sample I.D.			AOC8/9-3-60	AOC8/9-4-45			
Date Sampled			09/02/2014	09/03/2014			
Date Prepared			10/01/2014	10/01/2014			
Preparation Method			3050B	3050B			
Date Analyzed			10/01/2014	10/01/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			500	500			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Iron	2.500	5	12,000	35,300			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 10012014-1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			10/01/2014				
Preparation Method			3050B				
Date Analyzed			10/01/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Manganese	0.004	0.008	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 10012014-1

Our Lab I.D.			74559.01	74559.03			
Client Sample I.D.			AOC8/9-1-15	AOC8/9-1-60			
Date Sampled			09/02/2014	09/02/2014			
Date Prepared			10/01/2014	10/01/2014			
Preparation Method			3050B	3050B			
Date Analyzed			10/01/2014	10/01/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			100	100			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Manganese	0.400	0.800	317	158			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 10082014

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			10/08/2014				
Preparation Method			3050B				
Date Analyzed			10/09/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Manganese	0.004	0.008	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 10082014

Our Lab I.D.			74559.04				
Client Sample I.D.			AOC8/9-2-30				
Date Sampled			09/02/2014				
Date Prepared			10/08/2014				
Preparation Method			3050B				
Date Analyzed			10/09/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Manganese	0.400	0.800	96.6				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 10012014-1

Our Lab I.D.			74559.07	74559.08			
Client Sample I.D.			AOC8/9-3-60	AOC8/9-4-45			
Date Sampled			09/02/2014	09/03/2014			
Date Prepared			10/01/2014	10/01/2014			
Preparation Method			3050B	3050B			
Date Analyzed			10/01/2014	10/01/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			100	100			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Manganese	0.400	0.800	614	666			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (376.2), Sulfide, Total, Distillation, Colorimetric

QC Batch No: 100114-1

Our Lab I.D.			Method Blank	74559.01	74559.03	74559.04	74559.07
Client Sample I.D.				AOC8/9-1-15	AOC8/9-1-60	AOC8/9-2-30	AOC8/9-3-60
Date Sampled				09/02/2014	09/02/2014	09/02/2014	09/02/2014
Date Prepared			10/01/2014	10/01/2014	10/01/2014	10/01/2014	10/01/2014
Preparation Method			376.2	376.2	376.2	376.2	376.2
Date Analyzed			10/01/2014	10/01/2014	10/01/2014	10/01/2014	10/01/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Sulfide, total	0.25	0.50	ND	2.78	1.54	0.840	1.72

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (376.2), Sulfide, Total, Distillation, Colorimetric

QC Batch No: 100114-1

Our Lab I.D.			74559.08				
Client Sample I.D.			AOC8/9-4-45				
Date Sampled			09/03/2014				
Date Prepared			10/01/2014				
Preparation Method			376.2				
Date Analyzed			10/01/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Sulfide, total	0.25	0.50	5.18				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (9060), Total Organic Carbon (SW-846)

QC Batch No: 093014

Our Lab I.D.			Method Blank	74559.01	74559.03	74559.07	74559.08
Client Sample I.D.				AOC8/9-1-15	AOC8/9-1-60	AOC8/9-3-60	AOC8/9-4-45
Date Sampled				09/02/2014	09/02/2014	09/02/2014	09/03/2014
Date Prepared			09/30/2014	09/30/2014	09/30/2014	09/30/2014	09/30/2014
Preparation Method			9060	9060	9060	9060	9060
Date Analyzed			09/30/2014	09/30/2014	09/30/2014	09/30/2014	09/30/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Carbon, Total Organic (TOC)	500	500	ND	4,200	ND	ND	1,300

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (9060), Total Organic Carbon (SW-846)

QC Batch No: 100814

Our Lab I.D.			Method Blank	**74559.04**			
Client Sample I.D.				AOC8/9-2-30			
Date Sampled				09/02/2014			
Date Prepared			10/08/2014	10/08/2014			
Preparation Method			9060	9060			
Date Analyzed			10/08/2014	10/08/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Carbon, Total Organic (TOC)	500	500	ND	ND			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 100814-2

Our Lab I.D.			74559.01	74559.03	74559.04	74559.07	74559.08
Client Sample I.D.			AOC8/9-1-15	AOC8/9-1-60	AOC8/9-2-30	AOC8/9-3-60	AOC8/9-4-45
Date Sampled			09/02/2014	09/02/2014	09/02/2014	09/02/2014	09/03/2014
Date Prepared			10/07/2014	10/07/2014	10/07/2014	10/07/2014	10/07/2014
Preparation Method			9040B	9040B	9040B	9040B	9040B
Date Analyzed			10/08/2014	10/08/2014	10/08/2014	10/08/2014	10/08/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			pH unit	pH unit	pH unit	pH unit	pH unit
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
pH (Final SPLP II)	1.0	1.0	7.44	7.89	8.99	7.49	7.78
Temperature (C)	0.1	0.1	23.8	23.8	23.8	23.7	23.7

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 100814

Our Lab I.D.			74559.01	74559.03	74559.04	74559.07	74559.08
Client Sample I.D.			AOC8/9-1-15	AOC8/9-1-60	AOC8/9-2-30	AOC8/9-3-60	AOC8/9-4-45
Date Sampled			09/02/2014	09/02/2014	09/02/2014	09/02/2014	09/03/2014
Date Prepared			10/07/2014	10/07/2014	10/07/2014	10/07/2014	10/07/2014
Preparation Method			9040B	9040B	9040B	9040B	9040B
Date Analyzed			10/08/2014	10/08/2014	10/08/2014	10/08/2014	10/08/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			pH unit	pH unit	pH unit	pH unit	pH unit
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
pH (Final SPLP III)	1.0	1.0	7.29	7.34	9.42	7.16	7.44
Temperature (C)	0.1	0.1	22.5	22.4	22.6	22.6	22.6

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: 9045C, Soil and Waste pH

QC Batch No: 100214-1

Our Lab I.D.			74559.01	74559.03	74559.04	74559.07	74559.08
Client Sample I.D.			AOC8/9-1-15	AOC8/9-1-60	AOC8/9-2-30	AOC8/9-3-60	AOC8/9-4-45
Date Sampled			09/02/2014	09/02/2014	09/02/2014	09/02/2014	09/03/2014
Date Prepared			10/02/2014	10/02/2014	10/02/2014	10/02/2014	10/02/2014
Preparation Method			9045C	9045C	9045C	9045C	9045C
Date Analyzed			10/02/2014	10/02/2014	10/02/2014	10/02/2014	10/02/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			pH unit	pH unit	pH unit	pH unit	pH unit
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
pH	1.00	1.00	7.80	8.46	9.70	8.42	8.08
Temperature (C)	0.1	0.1	22.9	22.9	22.9	22.9	22.8

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: CR6-ARC, Soil Available Cr(VI) Reducing Capacity with H3PO4

QC Batch No: 100814

Our Lab I.D.			Method Blank	74559.01	74559.02	74559.03	74559.04
Client Sample I.D.				AOC8/9-1-15	AOC8/9-1-45	AOC8/9-1-60	AOC8/9-2-30
Date Sampled				09/02/2014	09/02/2014	09/02/2014	09/02/2014
Date Prepared			10/08/2014	10/08/2014	10/08/2014	10/08/2014	10/08/2014
Preparation Method			Calc.	Calc.	Calc.	Calc.	Calc.
Date Analyzed			10/15/2014	10/15/2014	10/15/2014	10/15/2014	10/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug /g	ug /g	ug /g	ug /g	ug /g
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI) ARC	0.25	0.25	ND	1.13	0.51	3.89	3.48

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: CR6-ARC, Soil Available Cr(VI) Reducing Capacity with H3PO4

QC Batch No: 100814

Our Lab I.D.			74559.05	74559.06	74559.07	74559.08	74559.09
Client Sample I.D.			AOC8/9-2-40	AOC8/9-2-55	AOC8/9-3-60	AOC8/9-4-45	AOC8/9-4-55
Date Sampled			09/02/2014	09/02/2014	09/02/2014	09/03/2014	09/03/2014
Date Prepared			10/08/2014	10/08/2014	10/08/2014	10/08/2014	10/08/2014
Preparation Method			Calc.	Calc.	Calc.	Calc.	Calc.
Date Analyzed			10/15/2014	10/15/2014	10/15/2014	10/15/2014	10/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug /g	ug /g	ug /g	ug /g	ug /g
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI) ARC	0.25	0.25	0.66	Null	0.30	Null	0.56

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid II (pH 5.0)

QC Batch No: 10142014-1

Our Lab I.D.			Method Blank	74559.01	74559.03	74559.04	74559.07
Client Sample I.D.				AOC8/9-1-15	AOC8/9-1-60	AOC8/9-2-30	AOC8/9-3-60
Date Sampled				09/02/2014	09/02/2014	09/02/2014	09/02/2014
Date Prepared			10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Preparation Method			SPLP	SPLP	SPLP	SPLP	SPLP
Date Analyzed			10/14/2014	10/14/2014	10/14/2014	10/14/2014	10/14/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (Total SPLP II)	2.00	2.00	ND	153	8.60	51.8	62.5
Chromium (VI) (SPLP II)	2.00	2.00	ND	55.2	3.49	20.8	23.8
Iron (Total SPLP II)	5.00	5.00	ND	232	50.2	35.7	27.0

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid II (pH 5.0)

QC Batch No: 10142014-1

Our Lab I.D.			74559.08				
Client Sample I.D.			AOC8/9-4-45				
Date Sampled			09/03/2014				
Date Prepared			10/10/2014				
Preparation Method			SPLP				
Date Analyzed			10/14/2014				
Matrix			Soil				
Units			ug/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (Total SPLP II)	2.00	2.00	56.7				
Chromium (VI) (SPLP II)	2.00	2.00	22.0				
Iron (Total SPLP II)	5.00	5.00	96.4				

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid III (DI water)

QC Batch No: 10102014-1

Our Lab I.D.			Method Blank	74559.01	74559.03	74559.04	74559.07
Client Sample I.D.				AOC8/9-1-15	AOC8/9-1-60	AOC8/9-2-30	AOC8/9-3-60
Date Sampled				09/02/2014	09/02/2014	09/02/2014	09/02/2014
Date Prepared			10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Preparation Method			SPLP	SPLP	SPLP	SPLP	SPLP
Date Analyzed			10/14/2014	10/14/2014	10/14/2014	10/14/2014	10/14/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (Total SPLP III)	2.00	2.00	ND	182	12.5	76.8	62.9
Chromium (VI) (SPLP III)	2.00	2.00	ND	69.4	4.64	23.5	26.9
Iron (Total SPLP III)	5.00	5.00	ND	155	49.5	23.6	29.1

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid III (DI water)

QC Batch No: 10102014-1

Our Lab I.D.			74559.08				
Client Sample I.D.			AOC8/9-4-45				
Date Sampled			09/03/2014				
Date Prepared			10/10/2014				
Preparation Method			SPLP				
Date Analyzed			10/14/2014				
Matrix			Soil				
Units			ug/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (Total SPLP III)	2.00	2.00	78.3				
Chromium (VI) (SPLP III)	2.00	2.00	33.7				
Iron (Total SPLP III)	5.00	5.00	75.8				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (376.2), Sulfide, Total, Distillation, Colorimetric

QC Batch No: 100114-1; Dup or Spiked Sample: 74559.01; LCS: Clean Sand; LCS Prepared: 10/01/2014; LCS Analyzed: 10/01/2014; Units: mg/Kg

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Sulfide, total	2.78	2.86	2.8	<15						

QC Batch No: 100114-1; Dup or Spiked Sample: 74559.01; LCS: Clean Sand; LCS Prepared: 10/01/2014; LCS Analyzed: 10/01/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Sulfide, total	0.200	0.180	90.0	0.200	0.186	93.0	3.3	80-120	<20	

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 10012014; LCS: Clean Sand; LCS Prepared: 10/01/2014; LCS Analyzed: 10/01/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Iron	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 100814; LCS: Clean Sand; LCS Prepared: 10/08/2014; LCS Analyzed: 10/09/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Iron	2,500	2,280	91.0	2,500	2,230	89.2	2.0	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 10012014-1; LCS: Clean Sand; LCS Prepared: 10/01/2014; LCS Analyzed: 10/01/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Manganese	50.0	48.9	97.8	50.0	50.5	101	3.2	75-125	<15	

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 10082014; LCS: Clean Sand; LCS Prepared: 10/08/2014; LCS Analyzed: 10/09/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Manganese	50.0	46.0	92.0	50.0	44.5	89.0	3.3	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (9060), Total Organic Carbon (SW-846)

QC Batch No: 093014; Dup or Spiked Sample: 74559.08; LCS: Clean Sand; QC Prepared: 09/30/2014; QC Analyzed: 09/30/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Carbon, Total Organic (TOC)	1,300	30,000	30,200	96.0	30,000	30,500	97.0	1.0	80-120	<20

QC Batch No: 093014; Dup or Spiked Sample: 74559.08; LCS: Clean Sand; QC Prepared: 09/30/2014; QC Analyzed: 09/30/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Carbon, Total Organic (TOC)	6,000	5,880	98.0	6,000	6,000	100	2.0	80-120	<20	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: (9060), Total Organic Carbon (SW-846)

QC Batch No: 100814; Dup or Spiked Sample: B100814; LCS: Clean Sand; QC Prepared: 10/08/2014; QC Analyzed: 10/08/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Carbon, Total Organic (TOC)	0.00	30,000	31,500	105	30,000	30,900	103	1.9	80-120	<20

QC Batch No: 100814; Dup or Spiked Sample: B100814; LCS: Clean Sand; QC Prepared: 10/08/2014; QC Analyzed: 10/08/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Carbon, Total Organic (TOC)	6,000	6,060	101	6,000	5,880	98.0	3.0	80-120	<20	

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QUALITY CONTROL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **32**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 100814-2; Dup or Spiked Sample: 74559.01; LCS: Clean Sand; LCS Prepared: 10/07/2014; LCS Analyzed: 10/08/2014; Units: pH unit

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
pH (Final SPLP II)	7.44	7.37	<1	<20	7.00	7.00	100	80-120		

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Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 100814; Dup or Spiked Sample: 74559.04; LCS: Clean Sand; LCS Prepared: 10/07/2014; LCS Analyzed: 10/08/2014; Units: pH unit

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
pH (Final SPLP III)	9.42	9.52	1.1	<20	7.00	7.00	100	80-120		

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Attn: Michael Weinberger

Site

Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: 9045C, Soil and Waste pH

QC Batch No: 100214-1; Dup or Spiked Sample: 74559.01; LCS: Clean Sand; LCS Prepared: 10/02/2014; LCS Analyzed: 10/02/2014; Units: pH unit

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
pH	7.80	7.90	1.3	<15	7.00	7.00	100	80-120		

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Site

Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid II (pH 5.0)

QC Batch No: 10142014-1; Dup or Spiked Sample: 74559.01; LCS: Clean Sand; LCS Prepared: 10/10/2014; LCS Analyzed: 10/14/2014; Units: ug/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Chromium (Total SPLP II)	153	151	1.3	<15						
Chromium (VI) (SPLP II)	55.2	59.2	7.0	<15						
Iron (Total SPLP II)	232	210	10.0	<15						

QC Batch No: 10142014-1; Dup or Spiked Sample: 74559.01; LCS: Clean Sand; LCS Prepared: 10/10/2014; LCS Analyzed: 10/14/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total SPLP II)	100	92.6	92.6	100	92.5	92.5	<1	75-125	<15	
Chromium (VI) (SPLP II)	5.00	4.23	84.6	5.00	4.14	82.8	2.2	75-125	<15	
Iron (Total SPLP II)	100	103	103	100	102	102	<1	75-125	<15	

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Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger

Site

Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74559	09/09/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid III (DI water)

QC Batch No: 10102014-1; Dup or Spiked Sample: 74559.03; LCS: Clean Sand; LCS Prepared: 10/10/2014; LCS Analyzed: 10/14/2014; Units: ug/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Chromium (Total SPLP III)	12.5	11.0	12.8	<15						
Chromium (VI) (SPLP III)	4.64	5.84	22.9	<15						
Iron (Total SPLP III)	49.5	41.0	18.8	<15						

QC Batch No: 10102014-1; Dup or Spiked Sample: 74559.03; LCS: Clean Sand; LCS Prepared: 10/10/2014; LCS Analyzed: 10/14/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total SPLP III)	100	93.2	93.2	100	93.8	93.8	<1	75-125	<15	
Chromium (VI) (SPLP III)	5.00	4.38	87.6	5.00	4.10	82.0	6.6	75-125	<15	
Iron (Total SPLP III)	100	103	103	100	101	101	2.0	75-125	<15	

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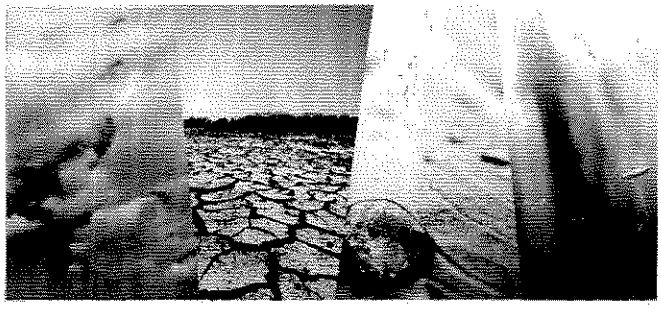
WORK ORDER NUMBER: 14-10-0503

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For
Client: AETL
Client Project Name: 74559
Attention: Jim Lin
2834 North Naomi Street
Burbank, CA 91504-2023

Approved for release on 10/13/2014 by:
Don Burley
Project Manager

ResultLink ›

Email your PM ›

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Contents

Client Project Name: 74559
Work Order Number: 14-10-0503

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4.3 LCS/LCSD. 8

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7 Chain-of-Custody/Sample Receipt Form. 11

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Work Order Narrative

Work Order: 14-10-0503

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 10/07/14. They were assigned to Work Order 14-10-0503.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client:	AETL	Work Order:	14-10-0503
	2834 North Naomi Street	Project Name:	74559
	Burbank, CA 91504-2023	PO Number:	20207-sub
		Date/Time Received:	10/07/14 13:45
		Number of Containers:	1
Attn:	Jim Lin		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
74559.04	14-10-0503-1	09/02/14 10:56	1	Solid

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Analytical Report

AETL
2834 North Naomi Street
Burbank, CA 91504-2023
Project: 74559

Date Received: 10/07/14
Work Order: 14-10-0503

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
74559.04	**14-10-0503-1**	**09/02/14 10:56**	**Solid**

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	5.40	0.100	1.00	BV,BU	%	10/08/14	10/09/14	ASTM D-2216 (M)
Carbon, Total Organic	ND	500	1.00	BV	mg/kg	10/08/14	10/08/14	EPA 9060A

Method Blank						**N/A**		**Solid**
Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	ND	0.100	1.00		%	10/08/14	10/09/14	ASTM D-2216 (M)
Carbon, Total Organic	ND	500	1.00		mg/kg	10/08/14	10/08/14	EPA 9060A

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AETL	Date Received:	10/07/14
2834 North Naomi Street	Work Order:	14-10-0503
Burbank, CA 91504-2023	Preparation:	N/A
	Method:	EPA 9060A
Project: 74559		Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-10-0504-1	**Sample**	**Solid**	**TOC 5**	**10/08/14**	**10/08/14 16:25**	**E1008TOCS1**
14-10-0504-1	**Matrix Spike**	**Solid**	**TOC 5**	**10/08/14**	**10/08/14 16:25**	**E1008TOCS1**
14-10-0504-1	**Matrix Spike Duplicate**	**Solid**	**TOC 5**	**10/08/14**	**10/08/14 16:25**	**E1008TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	ND	30000	31600	105	31000	103	75-125	2	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

AETL	Date Received:	10/07/14
2834 North Naomi Street	Work Order:	14-10-0503
Burbank, CA 91504-2023	Preparation:	N/A
	Method:	ASTM D-2216 (M)
Project: 74559		Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
74559.04	**Sample**	**Solid**	**N/A**	**10/08/14 00:00**	**10/09/14 10:40**	**E1009MOID2**
74559.04	**Sample Duplicate**	**Solid**	**N/A**	**10/08/14 00:00**	**10/09/14 10:40**	**E1009MOID2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	5.400	5.300	2	0-10	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

AETL	Date Received:	10/07/14
2834 North Naomi Street	Work Order:	14-10-0503
Burbank, CA 91504-2023	Preparation:	N/A
	Method:	EPA 9060A
Project: 74559		Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-013-1119	**LCS**	**Solid**	**TOC 5**	**10/08/14**	**10/08/14 16:25**	**E1008TOCL1**
099-06-013-1119	**LCSD**	**Solid**	**TOC 5**	**10/08/14**	**10/08/14 16:25**	**E1008TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	6000	6062	101	5876	98	80-120	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-10-0503 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
ASTM D-2216 (M)	N/A	722	N/A	1
EPA 9060A	N/A	735	TOC 5	1

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Glossary of Terms and Qualifiers

Work Order: 14-10-0503 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY **14-10-0503**

Date 10/07/14

Page 1 of 1

LABORATORY CLIENT: AETL

ADDRESS: 2834 N. Naomi St.

CITY Burbank STATE CA ZIP 91504

TEL: 818-845-8200 E-MAIL:

CLIENT PROJECT NAME / NUMBER: 74559

P.O. NO.: 20207-SUB

PROJECT CONTACT: Jim Lin

SAMPLER(S): (PRINT)

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ STANDARD

☐ COELT EDF GLOBAL ID LOG CODE

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010B/747X)	Cr(VI) [7196 or 7199 or 218.6]	TOC (9060)				
1	74559.04	09/02/14	1056	S	1																	X				

Relinquished by: (Signature) Shannon Coleman	Received by: (Signature/Affiliation) Danny E CL	Date: 10-7-14	Time: 1345
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.

Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

01/01/12 Revision

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WORK ORDER #: 14-10-0503

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AETL

DATE: 10/07/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.8 °C - 0.2 °C (CF) = 3.6 °C ☐ Blank ☒ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** 681

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☒ Not Present ☐ N/A **Checked by:** 681

☐ Sample ☐_____ ☐ No (Not Intact) ☒ Not Present **Checked by:** 681

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☒	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and good condition	☒	☐	☐
Proper containers and sufficient volume for analyses requested	☒	☐	☐
Analyses received within holding time	☒	☒	☐
Aqueous samples received within 15-minute holding time 681 10/7/14			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation noted on COC or sample container	☐	☐	☒
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☒
Tedlar bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☒2ozCGJ

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 681

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 681

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** 681

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WORK ORDER #: 14-10-0503

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☑ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☐ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

Comments:

TOC past holding time

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: 681 10/7/14

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Number of Pages	**28**
Date Received	**09/11/2014**
Date Reported	**10/22/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74595	10/02/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 11 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Attachment: 12 pages

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

Y7

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74595
-74265

DATE 09/04/14 PAGE 3 OF 3

CLIENT: LMC

PROJECT NAME: Burbank Soils Investigation

PROJECT MANAGER: T. Villeneuve/M. Weinberger

TC #: 100-SBO-T32955.TM

SAMPLERS (Signature): _____

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Cr SW6020	Hex Cr SW7199	Hold 8260B	CrVI Study	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC2-1-120	09/04/14	2332	X	X			U	S	SB	1	NR	74265.21
2.	AOC2-1-125		2338			X					1		74265.22
3.	AOC2-1-130		2342			X					1		74265.23
4.	AOC2-1-135		2351	X	X						1		74265.24
5.	AOC2-1-140		2355	X	X						1		74265.25
6.	AOC2-1-145		2358			X					1		74265.26
7.	AOC2-1-150		2359	X	X		*				1		~~74265.27~~ 74595.01
8.	AOC2-1-55-DUP		2122	X	X						1		74265.28
9.	EB-090414-B		1900	X	X	X			W	G/P	5	HCL	74265.29
10.													

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☑ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
R. SABATER		TETRA TECH, INC.	9/5/14	0820
RECEIVED BY: Jean Lander	SIGNATURE	COMPANY: AETL	DATE: 09/05/14	TIME: 0820
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 13

METHOD OF SHIPMENT/SHIPMENT NO.: Courier

Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74595

~~74317~~

CHAIN OF CUSTODY RECORD

2/7

DATE SEPT. 9, 2014 PAGE 1 OF 3

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBOT32955
SAMPLERS (Signature)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr 6+	HOLD		Cr III Study	Fe & Mn (6020)	T. Sulfide	TOC	pH	SPLP CrVI				FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	EB-090814-A	9-8-14	2145	X	X												U	W	G/P	5	NR/HCl	74317.01
2.	AOC7-2-5		2148			X												S	SB	1	NR	74317.02
3.	AOC7-2-10		2154	X	X			*	*	*	*	*	*	74595.02								~~74317.03~~
4.	AOC7-2-15		2202			X																74317.04
5.	AOC7-2-20		2210	X	X																	74317.05
6.	AOC7-2-25		2215			X			-													74317.06
7.	AOC7-2-30		2220	X	X																	74317.07
8.	AOC7-2-35		2225			X																74317.08
9.	AOC7-2-40		2230	X	X																	74317.09
10.	AOC7-2-40-DUP		2232	X	X																	74317.10

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
R. MCALISTER		TETRA TECH, INC.	9/9/14	800	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 14
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE 9/9/14	TIME 800	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE 9/9/14	TIME 1435	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Actia	SIGNATURE	COMPANY: AETL	DATE 09/09/14	TIME 1435	

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TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74595

CHAIN OF CUSTODY RECORD

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~~74317~~

DATE 9-9-14 PAGE 2 OF 3

CLIENT: LMC

PROJECT NAME: BURBANK METALS

PROJECT MANAGER: M. WEINBERGER

TC #: 100-SBD-T32955

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr6+	Hold		Cr VI Study	Fe & Mn (6020)	T. Sulfide	TOC	pH	SPLP Cr VI					FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC7-2-45	9-8-14	2240	X	X													U	S	SB	1	NR	74317.11
2.	AOC7-2-50		2250			X																	74317.12
3.	AOC7-2-55		2255	X	X			*	*	*	*	*	*	74595.03									~~74317.13~~
4.	AOC7-2-60		2301			X																	74317.14
5.	AOC7-2-65		2310	X	X																		74317.15
6.	AOC7-2-70		2315			X																	74317.16
7.	AOC7-2-75		2328	X	X			*						74595.04									~~74317.17~~
8.	AOC7-2-80		2340			X																	74317.18
9.	AOC7-2-85		2350			X																	74317.19
10.	AOC7-2-90	9-9-14	0002	X	X																		74317.20

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY: D. MALISTER	SIGNATURE	TETRA TECH, INC.	DATE 9/9/14	TIME 800	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10	
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY Tt	DATE 9/9/14	TIME 800	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER	
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY Tt	DATE 9/9/14	TIME 1435	Special Shipping/Handling/Storage Requirements:	
RECEIVED BY: Actin	SIGNATURE	COMPANY AETL	DATE 09/09/14	TIME 1435		

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74595 4/7

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AEL

CHAIN OF CUSTODY RECORD

~~74317~~

DATE 9-9-14 PAGE 3 OF 3

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M-WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr 6+	HexCr		Cr III Study	Fe & Mn (6020)	T. Sulfide	TOC	pH	Spec Cr III				FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
				PARAMETERS																		Please report all data to MDL
1.	AOC7-2-90-DUP	9-9-14	0004	X	X												V	S	SB	1	NR	74317.21
2.	AOC7-2-95		0012			X																74317.22
3.	AOC7-2-100		0020	X	X																	74317.23
4.	AOC7-2-105		0032			X																74317.24
5.	AOC7-2-110		0040	X	X			*						74595.05								~~74317.25~~
6.	AOC7-2-115		0050			X																74317.26
7.	AOC7-2-120		0101	X	X			*	*	*	*	*	*	74595.06								~~74317.27~~
8.	AOC7-2-125		0106			X																74317.28
9.	AOC7-2-130		0201	X	X																	74317.29
10.	AOC7-2-135		0212			X		*	*	*	*	*	*	74595.07								~~74317.30~~

FILTERING:
☐ FILTERED ☐ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY: D McAlister	SIGNATURE	TETRA TECH, INC.	DATE 9/9/14	TIME 800	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY Tt	DATE 9/9/14	TIME 800	METHOD OF SHIPMENT/SHIPMENT NO. COURIER
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY Tt	DATE 9/9/14	TIME 1435	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: AGIL	SIGNATURE	COMPANY AGIL	DATE 09/09/14	TIME 1435	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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74595

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: ~~74318~~

DATE 09/08/14 PAGE 3 OF 4

CLIENT: LMC

PROJECT NAME: LMC Borrank Soils INV.

PROJECT MANAGER: ~~T. Villeneuve~~/M. Weinberger

TC #: 100-SBD-T32955

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Tot Soluble Chrome	Soluble Hex Chrome	HOLD	CVII Study									FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	ADCS-1-105	09/08/14	2351	X	X											U	S	SB	1	NR	74318.21
2.	ADCS-1-110	09/08/14	2359			X										↓	↓	↓	1	↓	74318.22
3.	ADCS-1-115	09/09/14	0007	X	X		*					74595.08							1		~~74318.23~~
4.	ADCS-1-120	09/09/14	0015			X													1		74318.24
5.	ADCS-1-125	09/09/14	0021			X													1		74318.25
6.	ADCS-1-130	09/09/14	0030	X	X														1		74318.26
7.	ADCS-1-135	09/09/14	0034	X	X														1		74318.27
8.	ADCS-1-140	09/09/14	0044			X													1		74318.28
9.	ADCS-1-145	09/09/14	0049			X													1		74318.29
10.	ADCS-1-150	09/09/14	0055	X	X		*					74595.09				↓	↓	↓	1	↓	~~74318.30~~

PARAMETERS

TURN-AROUND TIME
Standard

OBSERVATIONS/COMMENTS
Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY: PHenderson	SIGNATURE	TETRA TECH, INC.	DATE 9/9/14	TIME 800	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY Tt	DATE 9/9/14	TIME 800	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY Tt	DATE 9/9/14	TIME 1435	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Agila	SIGNATURE	COMPANY AGIL	DATE 09/09/14	TIME 1435	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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6/7

74595

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: ~~74830~~

DATE 09/09/14 PAGE 3 OF 4

CLIENT: LMC
PROJECT NAME: LMC Burbank Soils INV.
PROJECT MANAGER: T. Villeneuve / M. Weinberger
TC #: 100-SBD-T32955
SAMPLERS (Signatures):

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chromium SW 6020	Hex Chromium SW 7199	HOLD		CrVI Study	Fe & Mn 6020	T. Sulfide	TOC	pH	SPLP CrVI				FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	AOC7-1-115	09/09/14	2351	X	X												U	S	SB	1	NR	74330.21
2.	AOC7-1-120	09/10/14	0010			X														1		74330.22
3.	AOC7-1-125	09/10/14	0019	X	X															1		74330.23
4.	AOC7-1-130	09/10/14	0041			X														1		74330.24
5.	AOC7-1-135	09/10/14	0050			X														1		74330.25
6.	AOC7-1-140	09/10/14	0141	X	X															1		74330.26
7.	AOC7-1-145	09/10/14	0145	X	X			*	*	*	*	*	*	74595,10						1		~~74330.27~~
8.	AOC7-1-150	09/10/14	0149			X														1		74330.28
9.	AOC7-1-120-DUP	09/10/14	0015	X	X															1		74330.29
10.	AOC7-1-100-DUP	09/09/14	2259	X	X															1		74330.30

PARAMETERS

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NR (None required); NaOH; H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
P. Henderson		TETRA TECH, INC.	09/10/14	830
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY: Tt	DATE: 9/10/14	TIME: 830
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY: Tt	DATE: 9/10/14	TIME: 920
RECEIVED BY: Actin	SIGNATURE	COMPANY: AETC	DATE: 09/10/14	TIME: 0920

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10

METHOD OF SHIPMENT/SHIPMENT NO.: Courier

Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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7/7

74595

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AGTC

74342

DATE 9-10-14 PAGE 1 OF 1

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020-Cr	7199-Cr6+	HOLD	Cr VI Study										FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	EB-091014-A	9-10-14	1940	X	X												U	W	G/P	5	NP/HCL	74342.01
2.	AOC6-1-115		2135			X												S	SB	1	NR	74342.02
3.	AOC6-1-120		2145	X	X														G			74342.03
4.	AOC6-1-120-DUP		2146	X	X														G			74342.04
5.	AOC6-1-125		2200			X													SB			74342.05
6.	AOC6-1-130		2210	X	X																	74342.06
7.	AOC 6-1-140		2220	X	X																	74342.07
8.	AOC6-1-145		2240			X																74342.08
9.	AOC 6-1-150		2245	X	X		*				74595.11											~~74342.09~~
10.																						

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
M Weinberger		TETRA TECH, INC.	9/11/14	1045	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: ~~11~~ 13
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
Antin		AGTC	09/11/14	1045	COURIER
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Monday, October 06, 2014 4:39 PM
To: Cyrus Razmara (cyrus@aetlab.com); Jim Lin (jiml@aetlab.com)
Cc: Villeneuve, Thomas; Wilson, Michael; Waddell, Rick
Subject: RE: Attenuation analyses

Good afternoon, Cyrus. I received word from Rick Waddell. We would also like to **cancel** the total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A), pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions, and hexavalent chromium analyses of the SPLP leachate **on AOC13-1-100 (SDG 74349) and AOC19-2-100 (SDG 74438). This effectively cancels all analysis requests from this morning's email**.

Instead, these are the analyses we would like:
We would like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote), total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions, and hexavalent chromium analyses of the SPLP leachate on the following samples:

- AOC11-1R-35(SDG 74470)
- AOC11-1R-100 (SDG 74470)

We would like to also like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote) on the following samples:

- AOC13-1-55 (SDG 74349)
- AOC13-2-100 (SDG 74368)

We would like total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions, and hexavalent chromium analyses of the SPLP leachate on the following samples:

- AOC8/9-2-30 (SDG 74238) (note we already ran hexavalent chromium attenuation testing on this sample)

To sum it up, we should have 12 samples for hexavalent chromium attenuation testing only, and 12 samples for hexavalent chromium attenuation testing, iron, manganese, sulfide, TOC, pH, and SPLP.
Hexavalent chromium attenuation testing only:

- AOC8/9-1-45
- AOC8/9-2-40 and AOC8/9-2-55
- AOC8/9-4-55
- AOC2-1-150
- AOC5-1-115 and AOC5-1-150
- AOC6-1-150
- AOC7-2-75 and AOC7-2-110
- AOC13-1-55
- AOC13-2-100

Hexavalent chromium attenuation testing, iron, manganese, sulfide, TOC, pH, and SPLP:

- AOC8/9-1-15 and AOC8/9-1-60
- AOC8/9-2-30
- AOC8/9-3-60
- AOC8/9-4-45
- AOC7-1-145
- AOC7-2-10, AOC7-2-55, AOC7-2-120, and AOC7-2-135

- AOC11-1R-35 and AOC11-1R-100

From: Weinberger, Michael
Sent: Monday, October 06, 2014 3:40 PM
To: Cyrus Razmara (cyrus@aetlab.com); Jim Lin (jiml@aetlab.com)
Cc: Villeneuve, Thomas; Wilson, Michael; Waddell, Rick
Subject: RE: Attenuation analyses

Good afternoon, Cyrus and Jim. Please hold off on running hexavalent chromium attenuation testing for the following samples:

- AOC13-1-100 (SDG 74349)
- AOC19-2-100 (SDG 74438)
- AOC13-1-55 and AOC13-1-80 (SDG 74349)
- AOC13-2-100 (SDG 74368)
- AOC16-1-100 (SDG 74366)
- AOC18-1-100 (SDG 74424)
- AOC20-1-100 (SDG 74407)

We do not have as much money as we thought we had available. I will be assigning four more hexavalent chromium attenuation analyses, but I want to make sure we assign the analyses on the correct samples.

Please continue to run total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions, and hexavalent chromium analyses of the SPLP leachate on AOC13-1-100 (SDG 74349) and AOC19-2-100 (SDG 74438).

From: Weinberger, Michael
Sent: Monday, October 06, 2014 9:57 AM
To: Cyrus Razmara (cyrus@aetlab.com); Jim Lin (jiml@aetlab.com)
Cc: Villeneuve, Thomas; Wilson, Michael; Waddell, Rick
Subject: RE: Attenuation analyses

Good afternoon, Cyrus and Jim. We would like to run the following additional analyses:
We would like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote), total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions*, and hexavalent chromium analyses of the SPLP leachate on the following samples:

- AOC13-1-100 (SDG 74349)
- AOC19-2-100 (SDG 74438)

* Please use the agreed upon ratio.

We would like to also like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote) on the following samples:

- AOC13-1-55 and AOC13-1-80 (SDG 74349)
- AOC13-2-100 (SDG 74368)
- AOC16-1-100 (SDG 74366)
- AOC18-1-100 (SDG 74424)
- AOC20-1-100 (SDG 74407)

Let us know if you have any questions.

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, October 07, 2014 3:41 PM
To: Cyrus Razmara; Wilson, Michael; Villeneuve, Thomas; Waddell, Rick
Subject: RE: Chromium Questions

Good afternoon, Cyrus. Per our earlier conversation, please run all of SPLP analyses using Extract Fluid #2 (pH=5.00). Also, please run hexavalent chromium, total chromium, iron, and pH on all extracts (both the Extract Fluid #2 and Extract Fluid #3; I believe that Extract Fluid #3 was already analyzed for hexavalent chromium).

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Tuesday, October 07, 2014 10:39 AM
To: Weinberger, Michael; Wilson, Michael; Villeneuve, Thomas; Waddell, Rick
Subject: RE: Chromium Questions

Hi Michael,

You are correct with regards to the extraction fluids, however the method does not specify any extraction fluid for chromium hexavalent. If we use extraction fluid # 2 for chromium hexavalent, because of its pH 5.0, all chromium hexavalent will be converted to chromium trivalent.

In STLC extractions of chromium hexavalent, the recommended extraction fluid is also DI water.

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

From: Weinberger, Michael [mailto:Michael.Weinberger@tetratech.com]
Sent: Tuesday, October 07, 2014 9:27 AM
To: Wilson, Michael; Villeneuve, Thomas; Waddell, Rick; Cyrus Razmara (cyrus@aetlab.com)
Subject: RE: Chromium Questions

Good morning, Cyrus. When I read the literature on EPA Method 1312, my interpretation is that Extraction Fluid #2 is used west of the Mississippi. Extraction Fluid #2 is described as reagent water with sulfuric and nitric acids (pH=5.00). Extraction Fluid #3 is reagent water, but this is only used for cyanide and volatiles leachability. Is my interpretation incorrect? Does California have a different standard for hexavalent chromium?

From: Wilson, Michael
Sent: Monday, October 06, 2014 5:45 PM
To: Weinberger, Michael; Villeneuve, Thomas; Waddell, Rick
Subject: FW: Chromium Questions

FYI

Available Cr(VI) Reducing Capacity Study
Bartlett and James (1988)

				Amount Recovered						
AETL Sample ID	Client Sample ID	Spiked Amount (mg/L)	Spiked Amount (µg/g)	Results (mg/L)	Dup. Results (mg/L)	Results (µg/g)	Dup. Results (µg/g)	CrVI-ARC (µg/g)	CrVI-ARC Dup (µg/g)	RPD
74595.01	AOC2-1-150	3.975	19.875	1.965	2.250	9.825	11.25	10.05	8.63	15.3
74595.02	AOC7-2-10	3.975	19.875	3.275	3.290	16.375	16.45	3.50	3.43	2.17
74595.03	AOC7-2-55	3.975	19.875	3.275	3.210	16.38	16.05	3.50	3.83	8.87
74595.04	AOC7-2-75	3.975	19.875	0.605	0.612	3.025	3.06	16.85	16.82	0.21
74595.05	AOC7-2-110	3.975	19.875	3.65	3.710	18.25	18.55	1.63	1.33	20.3
74595.06	AOC7-2-120	3.975	19.875	4.125	4.150	20.625	20.75	0.00	0.00	0.00
74595.07	AOC7-2-135	3.975	19.875	3.300	3.200	16.5	16.00	3.38	3.88	13.8
74595.08	AOC5-1-115	3.975	19.875	3.425	3.410	17.13	17.05	2.75	2.83	2.69
74595.09	AOC5-1-150	3.975	19.875	1.375	1.400	6.88	7.00	13.00	12.88	0.97
74595.10	AOC7-1-145	3.975	19.875	3.375	3.380	16.88	16.90	3.00	2.98	0.84
74595.11	AOC6-1-150	3.975	19.875	3.75	3.610	18.75	18.05	1.13	1.83	47.5

				Amount Recovered						
AETL Sample ID	Client Sample ID	Spiked Amount (mg/L)	Spiked Amount (µg/g)	Results (mg/L)	Dup. Results (mg/L)	Results (µg/g)	Dup. Results (µg/g)	CrVI-ARC (µg/g)	CrVI-ARC Dup (µg/g)	RPD
74595.01	AOC2-1-150	8.033	40.165	7.220	7.230	36.10	36.15	4.07	4.01	1.24
74595.02	AOC7-2-10	2.1	10.5	1.370	1.380	6.85	6.90	3.65	3.60	1.38
74595.03	AOC7-2-55	2.1	10.5	1.170	1.200	5.85	6.00	4.65	4.50	3.28
74595.04	AOC7-2-75	8.033	40.165	5.020	5.020	25.10	25.10	15.07	15.07	0.00
74595.05	AOC7-2-110	2.1	10.5	1.200	1.190	6.00	5.95	4.50	4.55	1.10
74595.06	AOC7-2-120	2.1	10.5	1.620	1.583	8.10	7.92	2.40	2.59	7.42
74595.07	AOC7-2-135	2.1	10.5	1.120	1.092	5.60	5.46	4.90	5.04	2.82
74595.08	AOC5-1-115	2.1	10.5	1.050	1.060	5.25	5.30	5.25	5.20	0.96
74595.09	AOC5-1-150	8.033	40.165	7.200	7.220	36.00	36.10	4.17	4.07	2.43
74595.10	AOC7-1-145	2.1	10.5	1.370	1.360	6.85	6.80	3.65	3.70	1.36
74595.11	AOC6-1-150	2.1	10.5	1.300	1.400	6.50	7.00	4.00	3.50	13.3

				Amount Recovered						
AETL Sample ID	Client Sample ID	Spiked Amount (mg/L)	Spiked Amount (µg/g)	Results (mg/L)	Dup. Results (mg/L)	Results (µg/g)	Dup. Results (µg/g)	CrVI-ARC (µg/g)	CrVI-ARC Dup (µg/g)	RPD
74595.01	AOC2-1-150	4.02	20.1	2.900	2.920	14.50	14.60	5.60	5.50	1.80
74595.02	AOC7-2-10	1.03	5.15	0.625	0.630	3.13	3.15	2.03	2.00	1.24
74595.03	AOC7-2-55	1.03	5.15	0.650	0.652	3.25	3.26	1.90	1.89	0.53
74595.04	AOC7-2-75	4.02	20.1	1.600	1.660	8.00	8.30	12.10	11.80	2.51
74595.05	AOC7-2-110	1.03	5.15	0.475	0.480	2.38	2.40	2.78	2.75	0.90
74595.06	AOC7-2-120	1.03	5.15	0.775	0.770	3.88	3.85	1.28	1.30	1.94
74595.07	AOC7-2-135	1.03	5.15	0.125	0.128	0.63	0.64	4.53	4.51	0.33
74595.08	AOC5-1-115	1.03	5.15	0.625	0.622	3.13	3.11	2.03	2.04	0.74
74595.09	AOC5-1-150	4.02	20.1	4.700	4.720	23.50	23.60	0.00	0.00	0.00
74595.10	AOC7-1-145	1.03	5.15	0.075	0.076	0.38	0.38	4.78	4.77	0.10
74595.11	AOC6-1-150	1.03	5.15	0.600	0.610	3.00	3.05	2.15	2.10	2.35

Available Cr(VI) Reducing Capacity Study
Bartlett and James (1988)

AETL Sample ID	Client Sample ID	Mean CrVI-ARC (µg/g)
74595.01	AOC2-1-150	6.31
74595.02	AOC7-2-10	3.04
74595.03	AOC7-2-55	3.38
74595.04	AOC7-2-75	14.6
74595.05	AOC7-2-110	2.92
74595.06	AOC7-2-120	1.89
74595.07	AOC7-2-135	4.37
74595.08	AOC5-1-115	3.35
74595.09	AOC5-1-150	8.53
74595.10	AOC7-1-145	3.81
74595.11	AOC6-1-150	2.45

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/11/2014
Date Reported 10/22/2014

Job Number	Order Date	Client
74595	10/02/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 11 samples with the following specification on 10/02/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74595.01	AOC2-1-150	09/04/2014	Soil	1
74595.04	AOC7-2-75	09/08/2014	Soil	1
74595.05	AOC7-2-110	09/09/2014	Soil	1
74595.08	AOC5-1-115	09/09/2014	Soil	1
74595.09	AOC5-1-150	09/09/2014	Soil	1
74595.11	AOC6-1-150	09/09/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
CR6-ARC	10/09/2014	2	Normal	ug /g

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74595.02	AOC7-2-10	09/08/2014	Soil	1
74595.03	AOC7-2-55	09/08/2014	Soil	1
74595.06	AOC7-2-120	09/08/2014	Soil	1
74595.07	AOC7-2-135	09/08/2014	Soil	1
74595.10	AOC7-1-145	09/10/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(376.2)	10/09/2014	2	Normal	mg/Kg
(6020) ^ IRON	10/09/2014	2	Normal	mg/Kg
(6020) ^ MN-MG/KG	10/09/2014	2	Normal	mg/Kg
(9060)	10/09/2014	2	Normal	mg/Kg
9040B ^ SPLP II	10/09/2014	2	Normal	pH unit
9040B ^ SPLP III	10/09/2014	2	Normal	pH unit
9045C	10/09/2014	2	Normal	pH unit
CR6-ARC	10/09/2014	2	Normal	ug /g
SPLP ^ SPLP-II	10/09/2014	2	Normal	ug/L
SPLP ^ SPLP-III	10/09/2014	2	Normal	ug/L

Continued

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Ordered By

Tetra Tech, Inc. 301 E. Vanderbilt Way Suite 450 San Bernardino, CA 92408-3559	Project ID: 100-SBO-T32955 Date Received 09/11/2014 Date Reported 10/22/2014
Telephone: (909)381-1674 Attention: Michael Weinberger	

Job Number	Order Date	Client
74595	10/02/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

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Attn: Michael Weinberger
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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: CR6-ARC, Soil Available Cr(VI) Reducing Capacity with H3PO4

QC Batch No: 101014-2

Our Lab I.D.			Method Blank	74595.01	74595.02	74595.03	74595.04
Client Sample I.D.				AOC2-1-150	AOC7-2-10	AOC7-2-55	AOC7-2-75
Date Sampled				09/04/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Preparation Method			Calc.	Calc.	Calc.	Calc.	Calc.
Date Analyzed			10/18/2014	10/18/2014	10/18/2014	10/18/2014	10/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug /g	ug /g	ug /g	ug /g	ug /g
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI) ARC	0.25	0.25	ND	6.31	3.04	3.38	14.6

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: CR6-ARC, Soil Available Cr(VI) Reducing Capacity with H3PO4

QC Batch No: 101014-2

Our Lab I.D.			74595.05	74595.06	74595.07	74595.08	74595.09
Client Sample I.D.			AOC7-2-110	AOC7-2-120	AOC7-2-135	AOC5-1-115	AOC5-1-150
Date Sampled			09/09/2014	09/08/2014	09/08/2014	09/09/2014	09/09/2014
Date Prepared			10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Preparation Method			Calc.	Calc.	Calc.	Calc.	Calc.
Date Analyzed			10/18/2014	10/18/2014	10/18/2014	10/18/2014	10/18/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug /g	ug /g	ug /g	ug /g	ug /g
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI) ARC	0.25	0.25	2.92	1.89	4.37	3.35	8.53

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: CR6-ARC, Soil Available Cr(VI) Reducing Capacity with H3PO4

QC Batch No: 101014-2

Our Lab I.D.			74595.10	74595.11			
Client Sample I.D.			AOC7-1-145	AOC6-1-150			
Date Sampled			09/10/2014	09/09/2014			
Date Prepared			10/10/2014	10/10/2014			
Preparation Method			Calc.	Calc.			
Date Analyzed			10/18/2014	10/18/2014			
Matrix			Soil	Soil			
Units			ug /g	ug /g			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI) ARC	0.25	0.25	3.81	2.45			

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 10012014

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			10/01/2014				
Preparation Method			3050B				
Date Analyzed			10/04/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Iron	0.005	0.010	ND				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 10012014

Our Lab I.D.			74595.02	74595.03	74595.06	74595.07	74595.10
Client Sample I.D.			AOC7-2-10	AOC7-2-55	AOC7-2-120	AOC7-2-135	AOC7-1-145
Date Sampled			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/10/2014
Date Prepared			10/01/2014	10/01/2014	10/01/2014	10/01/2014	10/01/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			10/04/2014	10/04/2014	10/04/2014	10/04/2014	10/04/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			500	500	500	500	500
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Iron	2.500	5	10,700	6,560	17,200	8,700	6,590

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ANALYTICAL RESULTS

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Attn: Michael Weinberger
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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 10012014-1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			10/01/2014				
Preparation Method			3050B				
Date Analyzed			10/04/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Manganese	0.004	0.008	ND				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 10012014-1

Our Lab I.D.			74595.02	74595.03	74595.06	74595.07	74595.10
Client Sample I.D.			AOC7-2-10	AOC7-2-55	AOC7-2-120	AOC7-2-135	AOC7-1-145
Date Sampled			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/10/2014
Date Prepared			10/01/2014	10/01/2014	10/01/2014	10/01/2014	10/01/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			10/04/2014	10/04/2014	10/04/2014	10/04/2014	10/04/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			100	100	100	100	100
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Manganese	0.400	0.800	208	112	301	143	125

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: (376.2), Sulfide, Total, Distillation, Colorimetric

QC Batch No: 100314-1

Our Lab I.D.			Method Blank	74595.02	74595.03	74595.06	74595.07
Client Sample I.D.				AOC7-2-10	AOC7-2-55	AOC7-2-120	AOC7-2-135
Date Sampled				09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			10/03/2014	10/03/2014	10/03/2014	10/03/2014	10/03/2014
Preparation Method			376.2	376.2	376.2	376.2	376.2
Date Analyzed			10/03/2014	10/03/2014	10/03/2014	10/03/2014	10/03/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Sulfide, total	0.25	0.50	ND	4.40	2.22	5.54	1.68

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: (376.2), Sulfide, Total, Distillation, Colorimetric

QC Batch No: 100314-1

Our Lab I.D.			74595.10				
Client Sample I.D.			AOC7-1-145				
Date Sampled			09/10/2014				
Date Prepared			10/03/2014				
Preparation Method			376.2				
Date Analyzed			10/03/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Sulfide, total	0.25	0.50	1.68				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: (9060), Total Organic Carbon (SW-846)

QC Batch No: 100314

Our Lab I.D.			Method Blank	74595.02	74595.03	74595.06	74595.07
Client Sample I.D.				AOC7-2-10	AOC7-2-55	AOC7-2-120	AOC7-2-135
Date Sampled				09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			10/03/2014	10/03/2014	10/03/2014	10/03/2014	10/03/2014
Preparation Method			9060	9060	9060	9060	9060
Date Analyzed			10/03/2014	10/03/2014	10/03/2014	10/03/2014	10/03/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Carbon, Total Organic (TOC)	500	500	ND	ND	500	ND	ND

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: (9060), Total Organic Carbon (SW-846)

QC Batch No: 100314

Our Lab I.D.			74595.10				
Client Sample I.D.			AOC7-1-145				
Date Sampled			09/10/2014				
Date Prepared			10/03/2014				
Preparation Method			9060				
Date Analyzed			10/03/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Carbon, Total Organic (TOC)	500	500	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 100814-2

Our Lab I.D.			74595.02	74595.03	74595.06	74595.07	74595.10
Client Sample I.D.			AOC7-2-10	AOC7-2-55	AOC7-2-120	AOC7-2-135	AOC7-1-145
Date Sampled			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/10/2014
Date Prepared			10/07/2014	10/07/2014	10/07/2014	10/07/2014	10/07/2014
Preparation Method			9040B	9040B	9040B	9040B	9040B
Date Analyzed			10/08/2014	10/08/2014	10/08/2014	10/08/2014	10/08/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			pH unit	pH unit	pH unit	pH unit	pH unit
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
pH (Final SPLP II)	1.0	1.0	7.37	6.82	6.89	6.60	6.14
Temperature (C)	0.1	0.1	23.8	23.7	23.4	23.5	23.7

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 100814

Our Lab I.D.			74595.02	74595.03	74595.06	74595.07	74595.10
Client Sample I.D.			AOC7-2-10	AOC7-2-55	AOC7-2-120	AOC7-2-135	AOC7-1-145
Date Sampled			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/10/2014
Date Prepared			10/07/2014	10/07/2014	10/07/2014	10/07/2014	10/07/2014
Preparation Method			9040B	9040B	9040B	9040B	9040B
Date Analyzed			10/08/2014	10/08/2014	10/08/2014	10/08/2014	10/08/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			pH unit	pH unit	pH unit	pH unit	pH unit
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
pH (Final SPLP III)	1.0	1.0	7.33	6.83	6.28	7.01	7.42
Temperature (C)	0.1	0.1	22.9	23.0	23.4	23.2	23.1

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: 9045C, Soil and Waste pH

QC Batch No: 100314-1

Our Lab I.D.			74595.02	74595.03	74595.06	74595.07	74595.10
Client Sample I.D.			AOC7-2-10	AOC7-2-55	AOC7-2-120	AOC7-2-135	AOC7-1-145
Date Sampled			09/08/2014	09/08/2014	09/08/2014	09/08/2014	09/10/2014
Date Prepared			10/03/2014	10/03/2014	10/03/2014	10/03/2014	10/03/2014
Preparation Method			9045C	9045C	9045C	9045C	9045C
Date Analyzed			10/03/2014	10/03/2014	10/03/2014	10/03/2014	10/03/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			pH unit	pH unit	pH unit	pH unit	pH unit
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
pH	1.00	1.00	8.18	8.20	7.62	7.79	8.29
Temperature (C)	0.1	0.1	23.0	22.8	22.8	22.8	22.8

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid II (pH 5.0)

QC Batch No: 10142014-1

Our Lab I.D.			Method Blank	74595.02	74595.03	74595.06	74595.07
Client Sample I.D.				AOC7-2-10	AOC7-2-55	AOC7-2-120	AOC7-2-135
Date Sampled				09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Preparation Method			SPLP	SPLP	SPLP	SPLP	SPLP
Date Analyzed			10/14/2014	10/14/2014	10/14/2014	10/14/2014	10/14/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (Total SPLP II)	2.00	2.00	ND	26.4	53.9	478	264
Chromium (VI) (SPLP II)	2.00	2.00	ND	10.0	21.9	204	92.6
Iron (Total SPLP II)	5.00	5.00	ND	9.96	37.7	51.7	45.0

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid II (pH 5.0)

QC Batch No: 10142014-1

Our Lab I.D.			74595.10				
Client Sample I.D.			AOC7-1-145				
Date Sampled			09/10/2014				
Date Prepared			10/10/2014				
Preparation Method			SPLP				
Date Analyzed			10/14/2014				
Matrix			Soil				
Units			ug/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (Total SPLP II)	2.00	2.00	ND				
Chromium (VI) (SPLP II)	2.00	2.00	ND				
Iron (Total SPLP II)	5.00	5.00	54.3				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid III (DI water)

QC Batch No: 101414-1

Our Lab I.D.			Method Blank	74595.02	74595.03	74595.06	74595.07
Client Sample I.D.				AOC7-2-10	AOC7-2-55	AOC7-2-120	AOC7-2-135
Date Sampled				09/08/2014	09/08/2014	09/08/2014	09/08/2014
Date Prepared			10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Preparation Method			SPLP	SPLP	SPLP	SPLP	SPLP
Date Analyzed			10/15/2014	10/15/2014	10/15/2014	10/15/2014	10/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/L	ug/L	ug/L	ug/L	ug/L
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (Total SPLP III)	2.00	2.00	ND	37.7	147	406	332
Chromium (VI) (SPLP III)	2.00	2.00	ND	14.8	52.8	220	149
Iron (Total SPLP III)	5.00	5.00	ND	116	17.8	77.7	32.0

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid III (DI water)

QC Batch No: 101414-1

Our Lab I.D.			74595.10				
Client Sample I.D.			AOC7-1-145				
Date Sampled			09/10/2014				
Date Prepared			10/10/2014				
Preparation Method			SPLP				
Date Analyzed			10/15/2014				
Matrix			Soil				
Units			ug/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (Total SPLP III)	2.00	2.00	ND				
Chromium (VI) (SPLP III)	2.00	2.00	ND				
Iron (Total SPLP III)	5.00	5.00	24.0				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: (376.2), Sulfide, Total, Distillation, Colorimetric

QC Batch No: 100314-1; Dup or Spiked Sample: 74595.02; LCS: Clean Sand; LCS Prepared: 10/03/2014; LCS Analyzed: 10/03/2014; Units: mg/Kg

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Sulfide, total	4.40	4.72	7.0	<15						

QC Batch No: 100314-1; Dup or Spiked Sample: 74595.02; LCS: Clean Sand; LCS Prepared: 10/03/2014; LCS Analyzed: 10/03/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Sulfide, total	0.200	0.180	90.0	0.200	0.186	93.0	3.3	80-120	<20	

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 10012014; LCS: Clean Sand; LCS Prepared: 10/01/2014; LCS Analyzed: 10/04/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Iron	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 10012014-1; LCS: Clean Sand; LCS Prepared: 10/01/2014; LCS Analyzed: 10/04/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Manganese	50.0	48.9	97.8	50.0	50.5	101	3.2	75-125	<15	

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: (9060), Total Organic Carbon (SW-846)

QC Batch No: 100314; Dup or Spiked Sample: B100314; LCS: Clean Sand; QC Prepared: 10/03/2014; QC Analyzed: 10/03/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Carbon, Total Organic (TOC)	0.00	30,000	27,300	91.0	30,000	26,700	89.0	2.2	80-120	<20

QC Batch No: 100314; Dup or Spiked Sample: B100314; LCS: Clean Sand; QC Prepared: 10/03/2014; QC Analyzed: 10/03/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Carbon, Total Organic (TOC)	6,170	6,360	103	6,170	6,420	104	<1	80-120	<20	

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

QUALITY CONTROL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **24**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 100814-2; Dup or Spiked Sample: 74559.01; LCS: Clean Sand; LCS Prepared: 10/07/2014; LCS Analyzed: 10/08/2014; Units: pH unit

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
pH (Final SPLP II)	7.44	7.37	<1	<20	7.00	7.00	100	80-120		

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 100814; Dup or Spiked Sample: 74559.04; LCS: Clean Sand; LCS Prepared: 10/07/2014; LCS Analyzed: 10/08/2014; Units: pH unit

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
pH (Final SPLP III)	9.42	9.52	1.1	<20	7.00	7.00	100	80-120		

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Page: **26**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: 9045C, Soil and Waste pH

QC Batch No: 100314-1; Dup or Spiked Sample: 74595.02; LCS: Clean Sand; LCS Prepared: 10/03/2014; LCS Analyzed: 10/03/2014; Units: pH unit

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
pH	8.18	8.20	<1	<15	7.00	7.00	100	80-120		

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid II (pH 5.0)

QC Batch No: 10142014-1; Dup or Spiked Sample: 74559.01; LCS: Clean Sand; LCS Prepared: 10/10/2014; LCS Analyzed: 10/14/2014; Units: ug/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Chromium (Total SPLP II)	153	151	1.3	<15						
Chromium (VI) (SPLP II)	55.2	59.2	7.0	<15						
Iron (Total SPLP II)	232	210	10.0	<15						

QC Batch No: 10142014-1; Dup or Spiked Sample: 74559.01; LCS: Clean Sand; LCS Prepared: 10/10/2014; LCS Analyzed: 10/14/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total SPLP II)	100	92.6	92.6	100	92.5	92.5	<1	75-125	<15	
Chromium (VI) (SPLP II)	5.00	4.23	84.6	5.00	4.14	82.8	2.2	75-125	<15	
Iron (Total SPLP II)	100	103	103	100	102	102	<1	75-125	<15	

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74595	09/11/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid III (DI water)

QC Batch No: 101414-1; Dup or Spiked Sample: 74559.03; LCS: Clean Sand; LCS Prepared: 10/10/2014; LCS Analyzed: 10/15/2014; Units: ug/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Chromium (Total SPLP III)	12.5	11.0	12.8	<15						
Chromium (VI) (SPLP III)	4.64	5.84	22.9	<15						
Iron (Total SPLP III)	49.5	41.0	18.8	<15						

QC Batch No: 101414-1; Dup or Spiked Sample: 74559.03; LCS: Clean Sand; LCS Prepared: 10/10/2014; LCS Analyzed: 10/15/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total SPLP III)	100	93.2	93.2	100	93.9	93.9	<1	75-125	<15	
Chromium (VI) (SPLP III)	5.00	4.38	87.6	5.00	4.15	82.9	5.5	75-125	<15	
Iron (Total SPLP III)	100	103	103	100	101	101	2.0	75-125	<15	

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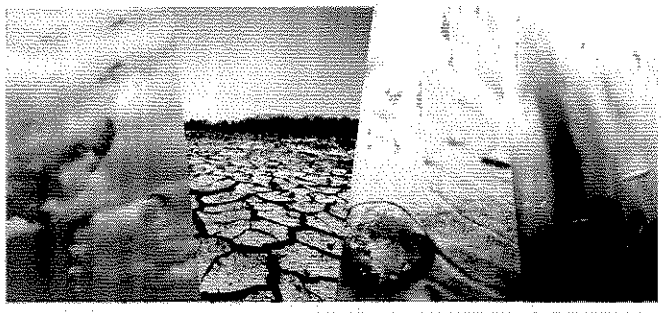
WORK ORDER NUMBER: 14-10-0210

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For
Client: AETL
Client Project Name: 74595
Attention: Jim Lin
2834 North Naomi Street
Burbank, CA 91504-2023

Approved for release on 10/09/2014 by:
Don Burley
Project Manager

ResultLink ›

Email your PM ›

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Contents

Client Project Name: 74595
Work Order Number: 14-10-0210

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4.1 MS/MSD. 6
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4.3 LCS/LCSD. 8

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6 Glossary of Terms and Qualifiers. 10

7 Chain-of-Custody/Sample Receipt Form. 11

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Work Order Narrative

Work Order: 14-10-0210

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 10/02/14. They were assigned to Work Order 14-10-0210.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client:	AETL	Work Order:	14-10-0210
	2834 North Naomi Street	Project Name:	74595
	Burbank, CA 91504-2023	PO Number:	20190-sub
		Date/Time Received:	10/02/14 13:00
		Number of Containers:	5
Attn:	Jim Lin		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
74595-02	14-10-0210-1	09/08/14 21:45	1	Solid
74595-03	14-10-0210-2	09/08/14 22:55	1	Solid
74595-06	14-10-0210-3	09/09/14 01:01	1	Solid
74595-07	14-10-0210-4	09/09/14 02:12	1	Solid
74595-10	14-10-0210-5	09/10/14 01:45	1	Solid

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Analytical Report

AETL
2834 North Naomi Street
Burbank, CA 91504-2023
Project: 74595

Date Received: 10/02/14
Work Order: 14-10-0210

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
74595-02	14-10-0210-1	09/08/14 21:45	Solid

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	2.00	0.100	1.00	BV,BU	%	10/02/14	10/03/14	ASTM D-2216 (M)
Carbon, Total Organic	ND	500	1.00		mg/kg	10/03/14	10/03/14	EPA 9060A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
74595-03	14-10-0210-2	09/08/14 22:55	Solid

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	2.20	0.100	1.00	BV,BU	%	10/02/14	10/03/14	ASTM D-2216 (M)
Carbon, Total Organic	500	500	1.00		mg/kg	10/03/14	10/03/14	EPA 9060A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
74595-06	14-10-0210-3	09/09/14 01:01	Solid

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	14.2	0.100	1.00	BV,BU	%	10/02/14	10/03/14	ASTM D-2216 (M)
Carbon, Total Organic	ND	500	1.00		mg/kg	10/03/14	10/03/14	EPA 9060A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
74595-07	14-10-0210-4	09/09/14 02:12	Solid

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	5.50	0.100	1.00	BV,BU	%	10/02/14	10/03/14	ASTM D-2216 (M)
Carbon, Total Organic	ND	500	1.00		mg/kg	10/03/14	10/03/14	EPA 9060A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
74595-10	14-10-0210-5	09/10/14 01:45	Solid

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	5.30	0.100	1.00	BV,BU	%	10/02/14	10/03/14	ASTM D-2216 (M)
Carbon, Total Organic	ND	500	1.00		mg/kg	10/03/14	10/03/14	EPA 9060A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Method Blank	N/A		Solid

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	ND	0.100	1.00		%	10/02/14	10/03/14	ASTM D-2216 (M)
Carbon, Total Organic	ND	500	1.00		mg/kg	10/03/14	10/03/14	EPA 9060A

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AETL	Date Received:	10/02/14
2834 North Naomi Street	Work Order:	14-10-0210
Burbank, CA 91504-2023	Preparation:	N/A
	Method:	EPA 9060A
Project: 74595		Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
74595-02	**Sample**	**Solid**	**TOC 5**	**10/03/14**	**10/03/14 17:25**	**E1003TOCS1**
74595-02	**Matrix Spike**	**Solid**	**TOC 5**	**10/03/14**	**10/03/14 17:25**	**E1003TOCS1**
74595-02	**Matrix Spike Duplicate**	**Solid**	**TOC 5**	**10/03/14**	**10/03/14 17:25**	**E1003TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	ND	30000	27200	91	26600	89	75-125	2	0-25	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

AETL	Date Received:	10/02/14
2834 North Naomi Street	Work Order:	14-10-0210
Burbank, CA 91504-2023	Preparation:	N/A
	Method:	ASTM D-2216 (M)
Project: 74595		Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
74595-02	**Sample**	**Solid**	**N/A**	**10/02/14 00:00**	**10/03/14 10:30**	**E1003MOID2**
74595-02	**Sample Duplicate**	**Solid**	**N/A**	**10/02/14 00:00**	**10/03/14 10:30**	**E1003MOID2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	2.000	2.100	5	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

AETL		Date Received:	10/02/14
2834 North Naomi Street		Work Order:	14-10-0210
Burbank, CA 91504-2023		Preparation:	N/A
		Method:	EPA 9060A
Project: 74595			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-013-1118	**LCS**	**Solid**	**TOC 5**	**10/03/14**	**10/03/14 17:25**	**E1003TOCL1**
099-06-013-1118	**LCSD**	**Solid**	**TOC 5**	**10/03/14**	**10/03/14 17:25**	**E1003TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	6000	6174	103	6223	104	80-120	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-10-0210 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
ASTM D-2216 (M)	N/A	722	N/A	1
EPA 9060A	N/A	735	TOC 5	1

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Glossary of Terms and Qualifiers

Work Order: 14-10-0210

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Other CA office locations: Concord and San Luis Obispo
For courier service / sample drop off information,
contact sales@calscience.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
14-10-0210

Date 10-2-14

Page 1 of 1

LABORATORY CLIENT: AETC

ADDRESS: 2534 N. Naomi St.

CITY Burbank STATE CA ZIP 91504

TEL: 818-845-8200 E-MAIL:

CLIENT PROJECT NAME / NUMBER: 74595

P.O. NO.: 20190-SUB

PROJECT CONTACT: Jim Lin

SAMPLER(S): (PRINT)

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ STANDARD

☐ COELT EDF GLOBAL ID LOG CODE

SPECIAL INSTRUCTIONS:
Please watch for Holding Time.

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010B/747X)	Cr(VI) [7196 or 7199 or 218.6]	TOC (9060A)
1	74595.02	09/8/14	2145	S	1																	X
2	.03	09/8/14	2255		1																	X
3	.06	09/09/14	0101		1																	X
4	.07	09/09/14	0212		1																	X
5	.10	09/10/14	0145		1																	X

Relinquished by: (Signature) Sargis-P	Received by: (Signature/Affiliation) EC	Date: 10/02/14	Time: 1300
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

01/01/12 Revision

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WORK ORDER #: 14-10-[0][2][1][0]

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AETC DATE: 10/02/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 5.8 °C - 0.2 °C (CF) = 5.6 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: SM

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: SM

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: SM

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☑	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☑2 02CGJ

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** SM

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** GM

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** GM

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Number of Pages	**22**
Date Received	**09/20/2014**
Date Reported	**10/22/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74647	10/07/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 4 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Attachment: 12 pages

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

1/4

№ 88999

74647

AETL JOB No: ~~74470~~

COMPANY: Tetra Tech
PROJECT MANAGER: Michael Weinberger
COMPANY ADDRESS: 3475 E Foothill Blvd
PHONE: 626-470-2431
FAX: 626-470-2631
PROJECT NAME: Burbank Soil Investigation
PROJECT #:
SITE NAME AND ADDRESS:
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Total Chromium-6020	Hex Chrome-7199	Hold		Cr VI Study	Red Mn 6020	T sulfide	TOC	pH	SPLP Cr VI	TEST INSTRUCTIONS & COMMENTS
1	AOC11-1R-10	74470.01	9/19/14	1750	S	1/6" sleeve	—	X	X									*Add: 10/07/14
2	AOC11-1R-15	74470.02	↓	1755	↓	↓	↓			X								Standard TAT
3	AOC11-1R-20	74470.03		1800				X	X									
4	AOC11-1R-25	74470.04		1805						X								
5	AOC11-1R-30	74470.05		1810				X	X									
6	AOC11-1R-35	~~74470-06~~		1815		1/8oz jar		X	X			*	*	*	*	*	*	74647.01
7	AOC11-1R-35-DUP	74470.07		1816		1/8oz jar		X	X									
8	AOC11-1R-40	74470.08		1825		1/6" sleeve				X								
9	AOC11-1R-45	74470.09		1830		↓		X	X									
10	AOC11-1R-50	74470.10		1835						X								
11	AOC11-1R-55	74470.11		1840						X								
12	AOC11-1R-60	74470.12		1845				X	X									
13	AOC11-1R-65	74470.13		1850						X								
14	AOC11-1R-70	74470.14		1900				X	X									
15	AOC11-1R-75	74470.15	↓	1905	↓	↓	↓			X								

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED	(Y) / N / NA
CUSTODY SEALS	Y / (N) / NA	SAMPLES INTACT	(Y) / N / NA
RECEIVED IN GOOD COND.	(Y) / N	SAMPLES ACCEPTED	(Y) / N

TURN AROUND TIME

☐ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) ______
☐ OTHER (PLEASE SPECIFY) ______

	1.	2.	3.
RELINQUISHED BY	(SAMPLER) Signature: [signature] Printed Name: D McCALISTER Date: 9-19-14 Time: 2000	Signature: [signature] Printed Name: M Weinberger Date: 9/20/14 Time: 1200	Signature: Printed Name: Date: Time:
RECEIVED BY	Signature: [signature] Printed Name: M Weinberger Date: 9/19/14 Time: 2000	Signature: Printed Name: Date: Time:	(LABORATORY: AETL) Signature: [signature] Printed Name: Artin Date: 09/20/14 Time: 1200

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

2/4

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CHAIN OF CUSTODY RECORD

74647

№ 89000

AETL JOB No. 74470

COMPANY	Tetra Tech
PROJECT MANAGER	Michael Weinberger
COMPANY ADDRESS	3475 E Foothill Blvd
PHONE	626-470-2431
FAX	626-470-2631
PROJECT NAME	Burbank Soil Investigation
PROJECT #	
SITE NAME AND ADDRESS	
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	AOC-11-1R-80	74470.16	9/19/14	1910	S	1/8-oz jar	—
2	AOC-11-1R-80-Dup	74470.17		1911		1/8-oz jar	
3	AOC-11-1R-85	74470.18		1915		1/6" sleeve	
4	AOC-11-1R-90	74470.19		1920			
5	AOC-11-1R-95	74470.20		1925			
6	AOC-11-1R-100	74470.21		1930			
7							
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

Total Chromium 6020	Hex Chrome 7199	Hold		Cr VI study	Fe&Mn 6020	T. Sulfide	TOC	PH	SPLP Cr VI
X	X								
X	X								
		X							
X	X								
		X							
X	X			*	*	*	*	*	*

TEST INSTRUCTIONS & COMMENTS

*Add: 10/07/14
Standard TAT

74647.02

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	6	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

☐ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	D. McAlister	M Weinberger	
Date / Time:	9-19-14 / 2000	9/20/14 / 1200	
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.** AETL
Signature:			
Printed Name:	M Weinberger		Antia
Date / Time:	9/19/14 / 2000		09/20/14 / 1200

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

74647

3/4

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO:

~~74349~~

CHAIN OF CUSTODY RECORD

DATE 09/11/14 PAGE 2 OF 2

CLIENT: LMC

PROJECT NAME: Burbank Soils INV.

PROJECT MANAGER: ~~F. Villeneuve~~ M. Weinberger

TC #: 100-SBO-T-32958

SAMPLERS (Signatures): [signature]

TURN-AROUND TIME: * Add: 10/07/14 (2)

OBSERVATIONS/COMMENTS: Please report all data to MDL

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrome 6010B	Hex Chrome 7199	HOLD	CrVI study		FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	ADC13-1-55	09/11/14		X	X		*	74647.03	U	S	SB	1	NR	~~74349.11~~
2.	ADC13-1-60	09/11/14		X	X				↓	↓	↓	1	↓	74349.12
3.	ADC13-1-65	09/11/14				X			↓	↓	↓	1	↓	74349.13
4.	ADC13-1-70	09/11/14				X			↓	↓	↓	1	↓	74349.14
5.	ADC13-1-75	09/11/14		X	X				↓	↓	↓	1	↓	74349.15
6.	ADC13-1-80	09/11/14		X	X				↓	↓	↓	1	↓	74349.16
7.	ADC13-1-85	09/11/14				X			↓	↓	↓	1	↓	74349.17
8.	ADC13-1-90	09/11/14		X	X				↓	↓	↓	1	↓	74349.18
9.	ADC13-1-95	09/11/14				X			↓	↓	↓	1	↓	74349.19
10.	ADC13-1-100	09/11/14		X	X				↓	↓	↓	1	↓	74349.20

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY: Vanessa Calder	[signature]	TETRA TECH, INC.	9/11/14	1638
RECEIVED BY: Sargis	[signature]	AETL	9/11/14	1638
RELINQUISHED BY: Sargis	[signature]	AETL	9/11/14	1715
RECEIVED BY: Jean Claude	[signature]	AETL	09/11/14	1715

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10

METHOD OF SHIPMENT/SHIPMENT NO.: Courier

Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: 74647

74368

CHAIN OF CUSTODY RECORD

DATE 09/12/14 PAGE 2 OF 3

CLIENT: LMC

PROJECT NAME: LMC Burbank soils INV.

PROJECT MANAGER: T. Villeneuve/ M. Weinberger

TC #: 100-SBO-

SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chromium SW 6020	Hex Chromium SW 7199	HOLD	Cr VI Study	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	ADC13-2-55	09/12/14	0753			X		U	S	SB	1	NR	74368.11
2.	ADC13-2-60	09/12/14	0759	X	X						1		74368.12
3.	ADC13-2-65	09/12/14	0809	X	X						1		74368.13
4.	ADC13-2-70	09/12/14	0824			X					1		74368.14
5.	ADC13-2-75	09/12/14	0835			X					1		74368.15
6.	ADC13-2-85	09/12/14	0907	X	X						1		74368.16
7.	ADC13-2-90	09/12/14	0913	X	X						1		74368.17
8.	ADC13-2-95	09/12/14	0920			X					1		74368.18
9.	ADC13-2-100	09/12/14	0928	X	X		X				1		~~74368.19~~ 74647.04
10.	ADC13-2100-Dup	09/12/14	0930	X	X						1		74368.20

TURN-AROUND TIME: * Add: 10/07/14

OBSERVATIONS/COMMENTS: Please report all data to MDL

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
P. Henderson		TETRA TECH, INC.	09/12/14	1400
RECEIVED BY: Antia		AGTC	09/12/14	1400
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10

METHOD OF SHIPMENT/SHIPMENT NO.: Courier

Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

X:\GIS\ATT-MISC\COCR.CDR

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Monday, October 06, 2014 4:39 PM
To: Cyrus Razmara (cyrus@aetlab.com); Jim Lin (jiml@aetlab.com)
Cc: Villeneuve, Thomas; Wilson, Michael; Waddell, Rick
Subject: RE: Attenuation analyses

Good afternoon, Cyrus. I received word from Rick Waddell. We would also like to **cancel** the total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A), pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions, and hexavalent chromium analyses of the SPLP leachate **on AOC13-1-100 (SDG 74349) and AOC19-2-100 (SDG 74438). This effectively cancels all analysis requests from this morning's email.**

Instead, these are the analyses we would like:
We would like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote), total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions, and hexavalent chromium analyses of the SPLP leachate on the following samples:

- AOC11-1R-35(SDG 74470)
- AOC11-1R-100 (SDG 74470)

We would like to also like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote) on the following samples:

- AOC13-1-55 (SDG 74349)
- AOC13-2-100 (SDG 74368)

We would like total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions, and hexavalent chromium analyses of the SPLP leachate on the following samples:

- AOC8/9-2-30 (SDG 74238) (note we already ran hexavalent chromium attenuation testing on this sample)

To sum it up, we should have 12 samples for hexavalent chromium attenuation testing only, and 12 samples for hexavalent chromium attenuation testing, iron, manganese, sulfide, TOC, pH, and SPLP.
Hexavalent chromium attenuation testing only:

- AOC8/9-1-45
- AOC8/9-2-40 and AOC8/9-2-55
- AOC8/9-4-55
- AOC2-1-150
- AOC5-1-115 and AOC5-1-150
- AOC6-1-150
- AOC7-2-75 and AOC7-2-110
- AOC13-1-55
- AOC13-2-100

Hexavalent chromium attenuation testing, iron, manganese, sulfide, TOC, pH, and SPLP:

- AOC8/9-1-15 and AOC8/9-1-60
- AOC8/9-2-30
- AOC8/9-3-60
- AOC8/9-4-45
- AOC7-1-145
- AOC7-2-10, AOC7-2-55, AOC7-2-120, and AOC7-2-135

- AOC11-1R-35 and AOC11-1R-100

From: Weinberger, Michael
Sent: Monday, October 06, 2014 3:40 PM
To: Cyrus Razmara (cyrus@aetlab.com); Jim Lin (jiml@aetlab.com)
Cc: Villeneuve, Thomas; Wilson, Michael; Waddell, Rick
Subject: RE: Attenuation analyses

Good afternoon, Cyrus and Jim. Please hold off on running hexavalent chromium attenuation testing for the following samples:

- AOC13-1-100 (SDG 74349)
- AOC19-2-100 (SDG 74438)
- AOC13-1-55 and AOC13-1-80 (SDG 74349)
- AOC13-2-100 (SDG 74368)
- AOC16-1-100 (SDG 74366)
- AOC18-1-100 (SDG 74424)
- AOC20-1-100 (SDG 74407)

We do not have as much money as we thought we had available. I will be assigning four more hexavalent chromium attenuation analyses, but I want to make sure we assign the analyses on the correct samples.

Please continue to run total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions, and hexavalent chromium analyses of the SPLP leachate on AOC13-1-100 (SDG 74349) and AOC19-2-100 (SDG 74438).

From: Weinberger, Michael
Sent: Monday, October 06, 2014 9:57 AM
To: Cyrus Razmara (cyrus@aetlab.com); Jim Lin (jiml@aetlab.com)
Cc: Villeneuve, Thomas; Wilson, Michael; Waddell, Rick
Subject: RE: Attenuation analyses

Good afternoon, Cyrus and Jim. We would like to run the following additional analyses:
We would like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote), total iron (USEPA Method SW6020A), total manganese (USEPA Method SW6020A), total sulfide (Sobek et al., 1978), total organic carbon (USEPA Method SW9060A) pH (USEPA Method SW9045D), Synthetic Precipitation Leaching Procedure (SPLP) extractions*, and hexavalent chromium analyses of the SPLP leachate on the following samples:

- AOC13-1-100 (SDG 74349)
- AOC19-2-100 (SDG 74438)

* Please use the agreed upon ratio.

We would like to also like hexavalent chromium attenuation testing (Bartlett James method, per the June 11 quote) on the following samples:

- AOC13-1-55 and AOC13-1-80 (SDG 74349)
- AOC13-2-100 (SDG 74368)
- AOC16-1-100 (SDG 74366)
- AOC18-1-100 (SDG 74424)
- AOC20-1-100 (SDG 74407)

Let us know if you have any questions.

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, October 07, 2014 3:41 PM
To: Cyrus Razmara; Wilson, Michael; Villeneuve, Thomas; Waddell, Rick
Subject: RE: Chromium Questions

Good afternoon, Cyrus. Per our earlier conversation, please run all of SPLP analyses using Extract Fluid #2 (pH=5.00). Also, please run hexavalent chromium, total chromium, iron, and pH on all extracts (both the Extract Fluid #2 and Extract Fluid #3; I believe that Extract Fluid #3 was already analyzed for hexavalent chromium).

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Tuesday, October 07, 2014 10:39 AM
To: Weinberger, Michael; Wilson, Michael; Villeneuve, Thomas; Waddell, Rick
Subject: RE: Chromium Questions

Hi Michael,

You are correct with regards to the extraction fluids, however the method does not specify any extraction fluid for chromium hexavalent. If we use extraction fluid # 2 for chromium hexavalent, because of its pH 5.0, all chromium hexavalent will be converted to chromium trivalent.

In STLC extractions of chromium hexavalent, the recommended extraction fluid is also DI water.

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

From: Weinberger, Michael [mailto:Michael.Weinberger@tetratech.com]
Sent: Tuesday, October 07, 2014 9:27 AM
To: Wilson, Michael; Villeneuve, Thomas; Waddell, Rick; Cyrus Razmara (cyrus@aetlab.com)
Subject: RE: Chromium Questions

Good morning, Cyrus. When I read the literature on EPA Method 1312, my interpretation is that Extraction Fluid #2 is used west of the Mississippi. Extraction Fluid #2 is described as reagent water with sulfuric and nitric acids (pH=5.00). Extraction Fluid #3 is reagent water, but this is only used for cyanide and volatiles leachability. Is my interpretation incorrect? Does California have a different standard for hexavalent chromium?

From: Wilson, Michael
Sent: Monday, October 06, 2014 5:45 PM
To: Weinberger, Michael; Villeneuve, Thomas; Waddell, Rick
Subject: FW: Chromium Questions

FYI

Available Cr(VI) Reducing Capacity Study
Bartlett and James (1988)

				Amount Recovered						
AETL Sample ID	Client Sample ID	Spiked Amount (mg/L)	Spiked Amount (µg/g)	Results (mg/L)	Dup. Results (mg/L)	Reading (µg/g)	Dup. Results (µg/g)	CrVI-ARC (µg/g)	CrVI-ARC Dup (µg/g)	RPD
74647.01	AOC11-1R-35	4.02	20.1	3.850	3.800	19.3	19.0	**0.85**	**1.10**	25.64
74647.02	AOC11-1R-100	4.02	20.1	0.000	0.000	0.0	0.0	**0.00**	**0.00**	**0.00**
74647.03	AOC13-1-55	4.02	20.1	2.225	2.125	11.1	10.6	**8.98**	**9.48**	5.42
74647.04	AOC13-2-100	4.02	20.1	0.000	0.000	0.00	0.00	**0.00**	**0.00**	**0.00**

				Amount Recovered						
AETL Sample ID	Client Sample ID	Spiked Amount (mg/L)	Spiked Amount (µg/g)	Results (mg/L)	Dup. Results (mg/L)	Reading (µg/g)	Dup. Results (µg/g)	CrVI-ARC (µg/g)	CrVI-ARC Dup (µg/g)	RPD
74647.01	AOC11-1R-35	2.1	10.5	1.750	1.720	8.75	8.60	**1.75**	**1.90**	8.22
74647.02	AOC11-1R-100	8.033	40.165	0.000	0.000	0.0	0.0	**0.00**	**0.00**	**0.00**
74647.03	AOC13-1-55	8.033	40.165	6.970	6.982	34.9	34.9	**5.32**	**5.26**	1.14
74647.04	AOC13-2-100	8.033	40.165	0.000	0.000	0.0	0.0	**0.00**	**0.00**	**0.00**

				Amount Recovered						
AETL Sample ID	Client Sample ID	Spiked Amount (mg/L)	Spiked Amount (µg/g)	Results (mg/L)	Dup. Results (mg/L)	Reading (µg/g)	Dup. Results (µg/g)	CrVI-ARC (µg/g)	CrVI-ARC Dup (µg/g)	RPD
74647.01	AOC11-1R-35	1.03	5.15	1.000	1.030	5.00	5.15	**0.00**	**0.00**	**0.00**
74647.02	AOC11-1R-100	19.94	99.7	16.450	16.520	82.25	82.60	**17.45**	**17.10**	2.03
74647.03	AOC13-1-55	4.02	20.1	3.150	3.170	15.75	15.85	**4.35**	**4.25**	2.33
74647.04	AOC13-2-100	19.94	99.7	15.970	15.920	79.85	79.60	**19.85**	**20.10**	1.25

AETL Sample ID	Client Sample ID	Mean CrVI-ARC (µg/g)
74647.01	AOC11-1R-35	1.40
74647.02	AOC11-1R-100	17.3
74647.03	AOC13-1-55	6.27
74647.04	AOC13-2-100	20.0

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Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955
Date Received 09/20/2014
Date Reported 10/22/2014

Job Number	Order Date	Client
74647	10/07/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 4 samples with the following specification on 10/07/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74647.01	AOC11-1R-35	09/19/2014	Soil	1
74647.02	AOC11-1R-100	09/19/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(376.2)	10/14/2014	2	Normal	mg/Kg
(6020) ^ IRON	10/14/2014	2	Normal	mg/Kg
(6020) ^ MN-MG/KG	10/14/2014	2	Normal	mg/Kg
(9060)	10/14/2014	2	Normal	mg/Kg
9040B ^ SPLP II	10/14/2014	2	Normal	pH unit
9040B ^ SPLP III	10/14/2014	2	Normal	pH unit
9045C	10/14/2014	2	Normal	pH unit
CR6-ARC	10/14/2014	2	Normal	ug /g
SPLP ^ SPLP-II	10/14/2014	2	Normal	ug/L
SPLP ^ SPLP-III	10/14/2014	2	Normal	ug/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74647.03	AOC13-1-55	09/11/2014	Soil	1
74647.04	AOC13-2-100	09/12/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
CR6-ARC	10/14/2014	2	Normal	ug /g

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 1016141C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			10/16/2014				
Preparation Method			3050B				
Date Analyzed			10/21/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Iron	0.005	0.010	ND				

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 1016141C1

Our Lab I.D.			74647.01	74647.02			
Client Sample I.D.			AOC11-1R-35	AOC11-1R-100			
Date Sampled			09/19/2014	09/19/2014			
Date Prepared			10/16/2014	10/16/2014			
Preparation Method			3050B	3050B			
Date Analyzed			10/21/2014	10/21/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			5000	5000			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Iron	25	50	5,300	11,100			

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 1016141C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			10/16/2014				
Preparation Method			3050B				
Date Analyzed			10/21/2014				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Manganese	0.004	0.008	ND				

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 1016141C1

Our Lab I.D.			74647.01	74647.02			
Client Sample I.D.			AOC11-1R-35	AOC11-1R-100			
Date Sampled			09/19/2014	09/19/2014			
Date Prepared			10/16/2014	10/16/2014			
Preparation Method			3050B	3050B			
Date Analyzed			10/21/2014	10/21/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			5000	5000			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Manganese	20	40	98.0	204			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: (376.2), Sulfide, Total, Distillation, Colorimetric

QC Batch No: 100814-1

Our Lab I.D.			Method Blank	74647.01	74647.02		
Client Sample I.D.				AOC11-1R-35	AOC11-1R-100		
Date Sampled				09/19/2014	09/19/2014		
Date Prepared			10/08/2014	10/08/2014	10/08/2014		
Preparation Method			376.2	376.2	376.2		
Date Analyzed			10/08/2014	10/08/2014	10/08/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Sulfide, total	0.25	0.50	ND	0.500	2.24		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: (9060), Total Organic Carbon (SW-846)

QC Batch No: 100814

Our Lab I.D.			Method Blank	**74647.01**	**74647.02**		
Client Sample I.D.				AOC11-1R-35	AOC11-1R-100		
Date Sampled				09/19/2014	09/19/2014		
Date Prepared			10/08/2014	10/08/2014	10/08/2014		
Preparation Method			9060	9060	9060		
Date Analyzed			10/08/2014	10/08/2014	10/08/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Carbon, Total Organic (TOC)	500	500	ND	ND	ND		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 100814-2

Our Lab I.D.			74647.01	74647.02			
Client Sample I.D.			AOC11-1R-35	AOC11-1R-100			
Date Sampled			09/19/2014	09/19/2014			
Date Prepared			10/07/2014	10/07/2014			
Preparation Method			9040B	9040B			
Date Analyzed			10/08/2014	10/08/2014			
Matrix			Soil	Soil			
Units			pH unit	pH unit			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
pH (Final SPLP II)	1.0	1.0	5.86	6.62			
Temperature (C)	0.1	0.1	23.8	23.7			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 100814

Our Lab I.D.			74647.01	74647.02			
Client Sample I.D.			AOC11-1R-35	AOC11-1R-100			
Date Sampled			09/19/2014	09/19/2014			
Date Prepared			10/07/2014	10/07/2014			
Preparation Method			9040B	9040B			
Date Analyzed			10/08/2014	10/08/2014			
Matrix			Soil	Soil			
Units			pH unit	pH unit			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
pH (Final SPLP III)	1.0	1.0	7.13	7.18			
Temperature (C)	0.1	0.1	23.2	23.3			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: 9045C, Soil and Waste pH

QC Batch No: 100814-1

Our Lab I.D.			74647.01	74647.02			
Client Sample I.D.			AOC11-1R-35	AOC11-1R-100			
Date Sampled			09/19/2014	09/19/2014			
Date Prepared			10/07/2014	10/07/2014			
Preparation Method			9045C	9045C			
Date Analyzed			10/08/2014	10/08/2014			
Matrix			Soil	Soil			
Units			pH unit	pH unit			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
pH	1.00	1.00	8.42	8.83			
Temperature (C)	0.1	0.1	22.1	21.8			

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: CR6-ARC, Soil Available Cr(VI) Reducing Capacity with H3PO4

QC Batch No: 100814-3

Our Lab I.D.			Method Blank	74647.01	74647.02	74647.03	74647.04
Client Sample I.D.				AOC11-1R-35	AOC11-1R-100	AOC13-1-55	AOC13-2-100
Date Sampled				09/19/2014	09/19/2014	09/11/2014	09/12/2014
Date Prepared			10/08/2014	10/08/2014	10/08/2014	10/08/2014	10/08/2014
Preparation Method			Calc.	Calc.	Calc.	Calc.	Calc.
Date Analyzed			10/15/2014	10/15/2014	10/15/2014	10/15/2014	10/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug /g	ug /g	ug /g	ug /g	ug /g
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI) ARC	0.25	0.25	ND	1.40	17.3	6.27	20.0

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid II (pH 5.0)

QC Batch No: 10082014-3

Our Lab I.D.			Method Blank	74647.01	74647.02		
Client Sample I.D.				AOC11-1R-35	AOC11-1R-100		
Date Sampled				09/19/2014	09/19/2014		
Date Prepared			10/08/2014	10/08/2014	10/08/2014		
Preparation Method			SPLP	SPLP	SPLP		
Date Analyzed			10/15/2014	10/15/2014	10/15/2014		
Matrix			Soil	Soil	Soil		
Units			ug/L	ug/L	ug/L		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium (Total SPLP II)	2.00	2.00	ND	270	ND		
Chromium (VI) (SPLP II)	2.00	2.00	ND	104	ND		
Iron (Total SPLP II)	5.00	5.00	ND	73.1	53.7		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid III (DI water)

QC Batch No: 10082014-4

Our Lab I.D.			Method Blank	74647.01	74647.02		
Client Sample I.D.				AOC11-1R-35	AOC11-1R-100		
Date Sampled				09/19/2014	09/19/2014		
Date Prepared			10/08/2014	10/08/2014	10/08/2014		
Preparation Method			SPLP	SPLP	SPLP		
Date Analyzed			10/15/2014	10/15/2014	10/15/2014		
Matrix			Soil	Soil	Soil		
Units			ug/L	ug/L	ug/L		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium (Total SPLP III)	2.00	2.00	ND	239	ND		
Chromium (VI) (SPLP III)	2.00	2.00	ND	158	ND		
Iron (Total SPLP III)	5.00	5.00	ND	24.8	39.0		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: (376.2), Sulfide, Total, Distillation, Colorimetric

QC Batch No: 100814-1; Dup or Spiked Sample: 74647.03; LCS: Clean Sand; LCS Prepared: 10/08/2014; LCS Analyzed: 10/08/2014; Units: mg/Kg

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Sulfide, total	1.08	0.960	11.8	<15						

QC Batch No: 100814-1; Dup or Spiked Sample: 74647.03; LCS: Clean Sand; LCS Prepared: 10/08/2014; LCS Analyzed: 10/08/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Sulfide, total	0.200	0.180	90.0	0.200	0.186	93.0	3.3	80-120	<20	

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: (6020), Iron by ICP/MS

QC Batch No: 1016141C1; LCS: Clean Sand; LCS Prepared: 10/16/2014; LCS Analyzed: 10/21/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Iron	1.00	1.05	105	1.00	1.24	124	16.6	75-125	<15	

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: (6020), Manganese by ICP/MS

QC Batch No: 1016141C1; LCS: Clean Sand; LCS Prepared: 10/16/2014; LCS Analyzed: 10/21/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Manganese	1.00	0.980	98.0	1.00	0.904	90.4	8.1	75-125	<15	

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San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **17**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: (9060), Total Organic Carbon (SW-846)

QC Batch No: 100814; Dup or Spiked Sample: B100814; LCS: Clean Sand; QC Prepared: 10/08/2014; QC Analyzed: 10/08/2014; Units: mg/Kg

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	
Carbon, Total Organic (TOC)	30,000	31,500	105	30,000	30,900	103	1.9	80-120	<20	

QC Batch No: 100814; Dup or Spiked Sample: B100814; LCS: Clean Sand; QC Prepared: 10/08/2014; QC Analyzed: 10/08/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Carbon, Total Organic (TOC)	6,000	6,060	101	6,000	5,880	98.0	3.0	80-120	<20	

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 100814-2; Dup or Spiked Sample: 74559.01; LCS: Clean Sand; LCS Prepared: 10/07/2014; LCS Analyzed: 10/08/2014; Units: pH unit

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
pH (Final SPLP II)	7.44	7.40	<1	<20	7.00	7.00	100	80-120		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 100814; Dup or Spiked Sample: 74559.01; LCS: Clean Sand; LCS Prepared: 10/07/2014; LCS Analyzed: 10/08/2014; Units: pH unit

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
pH (Final SPLP III)	7.29	7.30	<1	<20	7.00	7.00	100	80-120		

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Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: 9045C, Soil and Waste pH

QC Batch No: 100814-1; Dup or Spiked Sample: 74642.01; LCS: Clean Sand; LCS Prepared: 10/07/2014; LCS Analyzed: 10/08/2014; Units: pH unit

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
pH	8.90	8.94	<1	<15	7.00	7.00	100	80-120		

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid II (pH 5.0)

QC Batch No: 10082014-3; Dup or Spiked Sample: 74647.01; LCS: Clean Sand; LCS Prepared: 10/08/2014; LCS Analyzed: 10/15/2014; Units: ug/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Chromium (Total SPLP II)	270	285	5.4	<15						
Chromium (VI) (SPLP II)	104	100	3.9	<15						
Iron (Total SPLP II)	73.1	66.0	10.2	<15						

QC Batch No: 10082014-3; Dup or Spiked Sample: 74647.01; LCS: Clean Sand; LCS Prepared: 10/08/2014; LCS Analyzed: 10/15/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total SPLP II)	100	102	102	100	93.8	93.8	8.4	75-125	<15	
Chromium (VI) (SPLP II)	5.00	4.23	84.6	5.00	4.00	80.0	5.6	75-125	<15	
Iron (Total SPLP II)	100	105	105	100	100	100	4.9	75-125	<15	

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Burbank Metals

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Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74647	09/20/2014	T/TSB2

Method: SPLP, SPLP Extraction with Fluid III (DI water)

QC Batch No: 10082014-4; Dup or Spiked Sample: 74647.01; LCS: Clean Sand; LCS Prepared: 10/08/2014; LCS Analyzed: 10/15/2014; Units: ug/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Chromium (Total SPLP III)	239	216	10.1	<15						
Chromium (VI) (SPLP III)	158	161	1.9	<15						
Iron (Total SPLP III)	24.8	30	19.0	<15						

QC Batch No: 10082014-4; Dup or Spiked Sample: 74647.01; LCS: Clean Sand; LCS Prepared: 10/08/2014; LCS Analyzed: 10/15/2014; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total SPLP III)	100	95.0	95.0	100	96.0	96.0	1.0	75-125	<15	
Chromium (VI) (SPLP III)	5.00	4.38	80.0	5.00	4.14	82.8	3.4	75-125	<15	
Iron (Total SPLP III)	100	101	101	100	104	104	2.9	75-125	<15	

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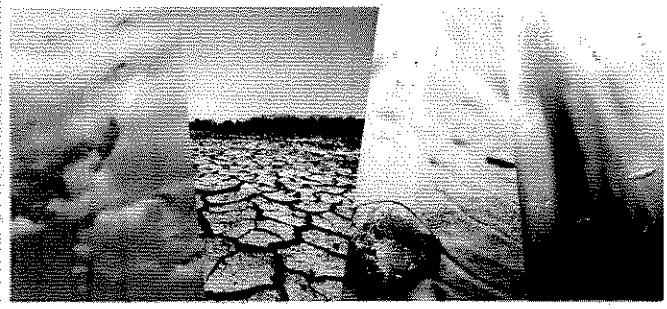
WORK ORDER NUMBER: 14-10-0505

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For
Client: AETL
Client Project Name: 74647
Attention: Jim Lin
2834 North Naomi Street
Burbank, CA 91504-2023

Approved for release on 10/13/2014 by:
Don Burley
Project Manager

ResultLink ›

Email your PM ›

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Work Order Number: 14-10-0505

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7 Chain-of-Custody/Sample Receipt Form. 11

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Work Order Narrative

Work Order: 14-10-0505

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 10/07/14. They were assigned to Work Order 14-10-0505.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Sample Summary

Client:	AETL	Work Order:	14-10-0505
	2834 North Naomi Street	Project Name:	74647
	Burbank, CA 91504-2023	PO Number:	20208-sub
		Date/Time Received:	10/07/14 13:45
		Number of Containers:	2
Attn:	Jim Lin		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
74647.01	14-10-0505-1	09/19/14 18:15	1	Solid
74647.02	14-10-0505-2	09/19/14 19:30	1	Solid

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Analytical Report

AETL
2834 North Naomi Street
Burbank, CA 91504-2023
Project: 74647

Date Received: 10/07/14
Work Order: 14-10-0505

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
74647.01	14-10-0505-1	09/19/14 18:15	Solid

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	2.60	0.100	1.00	BV,BU	%	10/08/14	10/09/14	ASTM D-2216 (M)
Carbon, Total Organic	ND	500	1.00		mg/kg	10/08/14	10/08/14	EPA 9060A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
74647.02	14-10-0505-2	09/19/14 19:30	Solid

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	3.40	0.100	1.00	BV,BU	%	10/08/14	10/09/14	ASTM D-2216 (M)
Carbon, Total Organic	ND	500	1.00		mg/kg	10/08/14	10/08/14	EPA 9060A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix
Method Blank	N/A		Solid

Parameter	Results	RL	DF	Qualifiers	Units	Date Prepared	Date Analyzed	Method
Moisture	ND	0.100	1.00		%	10/08/14	10/09/14	ASTM D-2216 (M)
Carbon, Total Organic	ND	500	1.00		mg/kg	10/08/14	10/08/14	EPA 9060A

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

AETL	Date Received:	10/07/14
2834 North Naomi Street	Work Order:	14-10-0505
Burbank, CA 91504-2023	Preparation:	N/A
	Method:	EPA 9060A
Project: 74647		Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-10-0504-1	**Sample**	**Solid**	**TOC 5**	**10/08/14**	**10/08/14 16:25**	**E1008TOCS1**
14-10-0504-1	**Matrix Spike**	**Solid**	**TOC 5**	**10/08/14**	**10/08/14 16:25**	**E1008TOCS1**
14-10-0504-1	**Matrix Spike Duplicate**	**Solid**	**TOC 5**	**10/08/14**	**10/08/14 16:25**	**E1008TOCS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	ND	30000	31600	105	31000	103	75-125	2	0-25	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

AETL	Date Received:	10/07/14
2834 North Naomi Street	Work Order:	14-10-0505
Burbank, CA 91504-2023	Preparation:	N/A
	Method:	ASTM D-2216 (M)
Project: 74647		Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
14-10-0503-1	**Sample**	**Solid**	**N/A**	**10/08/14 00:00**	**10/09/14 10:40**	**E1009MOID2**
14-10-0503-1	**Sample Duplicate**	**Solid**	**N/A**	**10/08/14 00:00**	**10/09/14 10:40**	**E1009MOID2**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	5.400	5.300	2	0-10	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

AETL	Date Received:	10/07/14
2834 North Naomi Street	Work Order:	14-10-0505
Burbank, CA 91504-2023	Preparation:	N/A
	Method:	EPA 9060A
Project: 74647		Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-06-013-1119	**LCS**	**Solid**	**TOC 5**	**10/08/14**	**10/08/14 16:25**	**E1008TOCL1**
099-06-013-1119	**LCSD**	**Solid**	**TOC 5**	**10/08/14**	**10/08/14 16:25**	**E1008TOCL1**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	6000	6062	101	5876	98	80-120	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-10-0505 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
ASTM D-2216 (M)	N/A	722	N/A	1
EPA 9060A	N/A	735	TOC 5	1

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Glossary of Terms and Qualifiers

Work Order: 14-10-0505

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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WO # / LAB USE ONLY: **14-10-0505**

CHAIN OF CUSTODY RECORD

Date: 10/07/14
Page: 1 of 1

LABORATORY CLIENT: AETL
ADDRESS: 2834 N. Naomi St.
CITY: Burbank STATE: CA ZIP: 91504
TEL: 818-845-8200 E-MAIL:

CLIENT PROJECT NAME / NUMBER: 74647
P.O. NO.: 20208-SUB
PROJECT CONTACT: Jim Lin
SAMPLER(S): (PRINT)

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (g) or GRO	TPH (d) or DRO or (C6C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260) or ( )	VOCs (8260)	Oxygenates (8260)	En Core / Terra Core Prep (5035)	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PNAs (8310) or (8270)	T22 Metals (6010B/747X)	Cr(VI) [7196 or 7199 or 218.6]	TOC
1	74647.01	9/19/14	1815	S	1																	X
2	↓ .02	↓	1930	↓	1																	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature] ECL	10-7-14	1355
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

01/01/12 Revision

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WORK ORDER #: 14-10-0505

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AETL

DATE: 10/07/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.8 °C - 0.2 °C (CF) = 3.6 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter **Checked by:** 689

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Checked by:** 689

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Checked by:** 689

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☐	☑	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☑2oz<4J

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** 689

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 681

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** 681

Return to Contents

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc. **301 E. Vanderbilt Way Suite 450** **San Bernardino, CA 92408-3559**

Number of Pages	**3**
Date Received	**09/03/2014**
Date Reported	**10/22/2014**

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74703	10/13/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 5 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

TETRA TECH, INC.
301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL 74703

~~74251~~

CHAIN OF CUSTODY RECORD

DATE 9-3-14 PAGE 3 OF 4

CLIENT: LMC
PROJECT NAME: BURBANK AOC EDRs
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7199 - Cr^{6+}	HOLD	Cr VI study	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC1-1-100	9-3-14	1331			X		U	S	SB	1	NR	74251.21
2.	AOC1-1-105		1342	X	X								74251-22
3.	AOC1-1-110		1405			X							74251.23
4.	AOC1-1-115		1416	X	X								74251.24
5.	AOC1-1-120		1429			X							74251.25
6.	AOC1-1-125		1448			X							74251.26
7.	AOC1-1-130		1449	X	X								74251-27
8.	AOC1-1-135		1506			X							74251-28
9.	AOC1-1-140		1538	X	X		*74703-01						74251-29
10.	AOC1-1-145		1549	X	X								74251-30

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL
* Added on 10/13 (AK)

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	
P. Henderson		TETRA TECH, INC.	09/03/14	1635	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
RECEIVED BY: T Hamms		AETL	9-3-14	1635	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: T Hamms		AETL	9-3-14	1650	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Claude		AETL	09/03/14	1650	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: _____

74703
74265

CHAIN OF CUSTODY RECORD

DATE 09/04/14 PAGE 3 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soils Investigation
PROJECT MANAGER: T. Villeneuve/M. Weinberger
TC #: 100-SBO-T32955.TM
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrom SW6020	Hex Chrom SW7199	Hold	8260B			CLE study							FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	AOC2-1-120	09/04/14	2332	X	X												U	S	SB	1	NR	74265.21
2.	AOC2-1-125		2338			X														1		74265.22
3.	AOC2-1-130		2342			X														1		74265.23
4.	AOC2-1-135		2357	X	X															1		74265.24
5.	AOC2-1-140		2355	X	X					* 74703.02										1		74265.25
6.	AOC2-1-145		2358			X														1		74265.26
7.	AOC2-1-150		2359	X	X															1		74265.27
8.	AOC2-1-55-DUP		2122	X	X															1		74265.28
9.	EB-090414-B		1900	X	X		X										U	W	G/P	5	See Below	74265.29
10.																						

PARAMETERS

TURN-AROUND TIME

OBSERVATIONS/COMMENTS
Please report all data to MDL
* Added on 10/13 (AK)

FILTERING:
☐ FILTERED ☑ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NaOH
NR (None required)
H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	
R. SABATER		TETRA TECH, INC.	9/5/14	0820	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 13
RECEIVED BY: Jean Laude	SIGNATURE	COMPANY AETL	DATE 09/05/14	TIME 0820	METHOD OF SHIPMENT/SHIPMENT NO.: Courier
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	

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301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: 74703 / ~~74312~~

CHAIN OF CUSTODY RECORD

DATE 09/06/14 PAGE 3 OF 3

CLIENT: LMC
PROJECT NAME: Burbank Soils Inv
PROJECT MANAGER: T. Villeneuve / M. Weinberger
TC #: 100-SBO-T32955
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	SW6020 Total Chrom	SW7199 Hex Chrom	HOLD	Cr VI steady	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC3-1-115	09/06/14	0049	X	X			U	S	SB	1	NR	Standard Please report all data to MDL * Added on 10/13 (AK) 74312.21
2.	AOC3-1-120	09/06/14	0051			X					1		74312.22
3.	AOC3-1-125	09/06/14	0101	X	X						1		74312.23
4.	AOC3-1-130	09/06/14	0111			X					1		74312.24
5.	AOC3-1-135	09/06/14	0118	X	X						1		74312.25
6.	AOC3-1-140	09/06/14	0123			X					1		74312.26
7.	AOC3-1-145	09/06/14	0128			X					1		74312.27
8.	~~AOC3-1-150~~	09/06/14	0135	X	X		* 74703-03				1		74312.28
9.	AOC3-1-135-DUP	09/06/14	0120	X	X					G	1		74312.29
10.													

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 9
P. Henderson		TETRA TECH, INC.	9-8-2014	2059	
RECEIVED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE: 9/8/14	TIME: 2059	METHOD OF SHIPMENT/SHIPMENT NO.: courier
RELINQUISHED BY: M Weinberger	SIGNATURE	COMPANY: TT	DATE: 9/9/14	TIME: 820	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Jean Claude	SIGNATURE	COMPANY: TETRA	DATE: 09/09/14	TIME: 0820	

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San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: AETL

74703
~~74264~~

CHAIN OF CUSTODY RECORD

DATE 9-4-2014 PAGE 2 OF 2

CLIENT: LMC
PROJECT NAME: BURBANK METALS
PROJECT MANAGER: M. WEINBERGER
TC #: 100-SBO-T32955
SAMPLERS (Signature): [signature]

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	6020 - Cr	7196 - Cr^{6+}	HOLD					Cr VI study							FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	TURN-AROUND TIME / OBSERVATIONS/COMMENTS
1.	AOC11-2-50	9-4-14	2205			X												U	S	SB	1	NR	74264.11
2.	AOC11-2-60		2215	X	X																		74264.12
3.	AOC11-2-70		2225			X																	74264.13
4.	AOC11-2-75		2240	X	X																		74264.14
5.	AOC11-2-90		2330			X	74488-08				*74703-06												~~74264.15~~
6.	~~AOC11-2-100~~		2335	X	X						*74703.04												74264.16
7.																							
8.																							
9.																							
10.																							

OBSERVATIONS/COMMENTS: Please report all data to MDL
* Added on 10/13 (Ak)

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SB - Brass Sleeve; SS - Stainless Steel Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NaOH; NR (None required); H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 6
D MCALISTER	[signature]	TETRA TECH, INC.	09/05/14	8:00 AM	
RECEIVED BY: R SABATER	[signature]	TETRA TECH	09/05/14	8:00 AM	METHOD OF SHIPMENT/SHIPMENT NO.: COURIER
RELINQUISHED BY: R SABATER	[signature]	TETRA TECH	09/05/14	8:20 AM	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: [signature]	[signature]	AETL	9/5/14	0820	

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5/5

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301 E. Vanderbilt Way, Suite 450
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: 74703

~~74349~~

CHAIN OF CUSTODY RECORD

DATE 09/11/14 PAGE 2 OF 2

CLIENT: LMC
PROJECT NAME: Burbank soils INV
PROJECT MANAGER: ~~V. Villeneuve~~ M. Weinberger
TC #: 100-SBO-T-32955
SAMPLERS (Signatures): [signature]

TURN-AROUND TIME:

OBSERVATIONS/COMMENTS: Please report all data to MDL
* Added on 10/13 (Ak)

LINE ITEM	SAMPLE NO.	DATE	TIME	Total Chrome SW 6020	Hex Chrome SW 7199	HOLD	Cr VI study	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	ADC13-1-55	09/11/14		X	X			U	S	SB	1	NR	74349.11
2.	ADC13-1-60	09/11/14		X	X			↓	↓	↓	1	↓	74349.12
3.	ADC13-1-65	09/11/14				X					1		74349.13
4.	ADC13-1-70	09/11/14				X					1		74349.14
5.	ADC13-1-75	09/11/14		X	X						1		74349.15
6.	ADC13-1-80	09/11/14		X	X						1		74349.16
7.	ADC13-1-85	09/11/14				X					1		~~74349.17~~
~~8.~~	~~ADC13-1-90~~	09/11/14		X	X		* 74703.05				1		74349.18
9.	ADC13-1-95	09/11/14				X					1		74349.19
10.	ADC13-1-100	09/11/14		X	X			↓	↓	↓	1	↓	74349.20

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY: Vanessa Calder	[signature]	TETRA TECH, INC.	9/11/14	1638
RECEIVED BY: Sargis	[signature]	AETL	9/11/14	1638
RELINQUISHED BY: Sargis	[signature]	AETL	9/11/14	1715
RECEIVED BY: Jean Claude	[signature]	AETL	09/11/14	1715

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 10
METHOD OF SHIPMENT/SHIPMENT NO.: Courier
Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Tuesday, October 14, 2014 9:44 AM
To: Cyrus Razmara; 'Jim Lin'
Cc: Villeneuve, Thomas; Waddell, Rick
Subject: RE: Additional attenuation analyses

Thank you for the heads up, Cyrus. Please analyze AOC 11-2-90 instead of AOC11-2-100.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Monday, October 13, 2014 4:03 PM
To: Weinberger, Michael; 'Jim Lin'
Cc: Villeneuve, Thomas; Waddell, Rick
Subject: RE: Additional attenuation analyses

Hi Michael,

Sample AOC11-2-100 is composed of large gravel and rocks. There is no soil that can be sieved for attenuation study. How do you want us to deal with this sample?
One solution is, for us to crush the sample to smaller pieces and perform the study. The other is to perform the study on the sample as is, which I do not recommend.

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

From: Weinberger, Michael [mailto:Michael.Weinberger@tetratech.com]
Sent: Monday, October 13, 2014 8:33 AM
To: Cyrus Razmara (cyrus@aetlab.com); Jim Lin (jiml@aetlab.com)
Cc: Villeneuve, Thomas; Waddell, Rick
Subject: Additional attenuation analyses

Good morning, Cyrus. We would like to perform hexavalent attenuation analyses (Bartlett James method, per the June 11 quote) on the following samples:

- AOC 1-1-140
- AOC 2-1-140
- AOC 3-1-150
- AOC 11-2-100
- AOC 13-1-90

Thank you,

Michael B Weinberger | Senior Geologist

Available Cr(VI) Reducing Capacity Study
Bartlett and James (1988)

AETL Sample ID	Client Sample ID	Spiked Amount		Amount Recovered				CrVI-ARC	CrVI-ARC Dup	RPD
		(mg/L)	(µg/g)	Results (mg/L)	Dup. Results (mg/L)	Results (µg/g)	Dup. Results (µg/g)	(µg/g)	(µg/g)	
74703.01	AOC1-1-140	4.02	20.1	3.400	3.480	17.0	17.4	**3.10**	**2.70**	13.8
74703.02	AOC2-1-140	4.02	20.1	3.900	3.720	19.5	18.6	**0.60**	**1.50**	85.7
74703.03	AOC3-1-150	4.02	20.1	3.900	3.900	19.5	19.5	**0.60**	**0.60**	0.00
74703.05	AOC13-1-90	4.02	20.1	0.000	0.000	0.00	0.00	**0.00**	**0.00**	**0.00**
74703.06	AOC11-2-90	4.02	20.1	1.050	1.080	5.25	5.40	**14.9**	**14.7**	1.02

AETL Sample ID	Client Sample ID	Spiked Amo		Amount Recovered				CrVI-ARC	CrVI-ARC Dup	RPD
		(mg/L)	(µg/g)	Results (mg/L)	Dup. Results (mg/L)	Results (µg/g)	Dup. Results (µg/g)	(µg/g)	(µg/g)	
74703.01	AOC1-1-140	2.1	10.5	1.925	1.930	9.63	9.65	**0.88**	**0.85**	2.90
74703.02	AOC2-1-140	2.1	10.5	2.075	2.071	10.4	10.4	**0.13**	**0.15**	14.8
74703.03	AOC3-1-150	2.1	10.5	2.025	2.023	10.1	10.1	**0.38**	**0.39**	2.63
74703.05	AOC13-1-90	8.033	40.165	5.900	5.890	29.5	29.5	**10.7**	**10.7**	0.47
74703.06	AOC11-2-90	8.033	40.165	5.775	5.772	28.9	28.9	**11.3**	**11.3**	0.13

AETL Sample ID	Client Sample ID	Spiked Amo		Amount Recovered				CrVI-ARC	CrVI-ARC Dup	RPD
		(mg/L)	(µg/g)	Results (mg/L)	Dup. Results (mg/L)	Results (µg/g)	Dup. Results (µg/g)	(µg/g)	(µg/g)	
74703.01	AOC1-1-140	1.03	5.15	0.825	0.850	4.13	4.25	**1.03**	**0.90**	13.0
74703.02	AOC2-1-140	1.03	5.15	1.025	1.075	5.13	5.38	**0.00**	**0.00**	**0.00**
74703.03	AOC3-1-150	1.03	5.15	0.975	1.000	4.88	5.00	**0.28**	**0.15**	58.8
74703.05	AOC13-1-90	4.02	20.1	0.000	0.000	0.00	0.00	**0.00**	**0.00**	0.00
74703.06	AOC11-2-90	4.02	20.1	0.000	0.000	0.00	0.00	**0.00**	**0.00**	0.00

AETL Sample ID	Client Sample ID	Mean CrVI-ARC (µg/g)
74703.01	AOC1-1-140	**1.58**
74703.02	AOC2-1-140	**0.60**
74703.03	AOC3-1-150	**0.40**
74703.05	AOC13-1-90	**10.7**
74703.06	AOC11-2-90	**13.1**

American Environmental Testing Laboratory Inc.
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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Project ID: 100-SBO-T32955
Date Received 09/03/2014
Date Reported 10/22/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74703	10/13/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 6 samples with the following specification on 10/13/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74703.01	AOC1-1-140	09/03/2014	Soil	1
74703.02	AOC2-1-140	09/04/2014	Soil	1
74703.03	AOC3-1-150	09/06/2014	Soil	1
74703.05	AOC13-1-90	09/11/2014	Soil	1
74703.06	AOC11-2-90	09/04/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
CR6-ARC	10/20/2014	2	Normal	ug /g

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74703.04	AOC11-2-100	09/04/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	10/20/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74703	09/03/2014	T/TSB2

Method: CR6-ARC, Soil Available Cr(VI) Reducing Capacity with H3PO4

QC Batch No: 100814-4

Our Lab I.D.			Method Blank	74703.01	74703.02	74703.03	74703.05
Client Sample I.D.				AOC1-1-140	AOC2-1-140	AOC3-1-150	AOC13-1-90
Date Sampled				09/03/2014	09/04/2014	09/06/2014	09/11/2014
Date Prepared			10/08/2014	10/08/2014	10/08/2014	10/08/2014	10/08/2014
Preparation Method			Calc.	Calc.	Calc.	Calc.	Calc.
Date Analyzed			10/15/2014	10/15/2014	10/15/2014	10/15/2014	10/15/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug /g	ug /g	ug /g	ug /g	ug /g
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI) ARC	0.25	0.25	ND	1.58	0.60	0.40	10.7

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Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74703	09/03/2014	T/TSB2

Method: CR6-ARC, Soil Available Cr(VI) Reducing Capacity with H3PO4

QC Batch No: 100814-4

Our Lab I.D.			**74703.06**				
Client Sample I.D.			AOC11-2-90				
Date Sampled			09/04/2014				
Date Prepared			10/08/2014				
Preparation Method			Calc.				
Date Analyzed			10/15/2014				
Matrix			Soil				
Units			ug /g				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Chromium (VI) ARC	0.25	0.25	13.1				

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**4**
Date Received	**10/16/2014**
Date Reported	**10/21/2014**

Job Number	Order Date	Client
74747	10/16/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 3 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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74747

CHAIN OF CUSTODY RECORD

№ 88453

AETL JOB No. 74423

COMPANY: Tetra Tech, Inc
PROJECT MANAGER: T. Villeneuve / M. Weinberger
COMPANY ADDRESS: 301 E Vanderbilt Way Suite 450 San Bernardino CA 92408
PHONE / FAX: 909-381-1674
PROJECT NAME: Burbank Soils Inv.
PROJECT #: 100-580-T32955
SITE NAME AND ADDRESS:
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	AOC18-3-5	74423.01	09/17/14	1114	Soil	1	N/A
2	AOC18-3-10	74423.02		1120			
3	AOC18-3-15	74423.03		1126			
4	AOC18-3-20	74423.04		1130			
5	AOC18-3-25	74423.05		1135			
6	AOC18-3-30	74423.06		1139			
7	AOC18-3-35	74423.07		1143			
8	AOC18-3-40	74423.08		1149			
9	AOC18-3-45	74423.09		1155			
10	AOC18-3-50	74423.10		1200			
11	AOC18-3-55	74423.11		1209			
12	AOC18-3-60	74423.12		1216			
13	AOC18-3-65	74423.13		1220			
14	AOC18-3-70	74423.14		1226			
15	AOC18-3-75	74423.15		1231			

ANALYSIS REQUESTED

Total Chromium SW6020	Hex Chrome SW7199	HOLD	Total chromium	hexavalent chromium
X	X			
		X		
		X		
X	X			
		X		
X	X			
		X		
X	X			
X	X			
		X		
		X	*	*
X	X			
		X		
X	X			
X	X			

TEST INSTRUCTIONS & COMMENTS: 74747.01

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

(X) NORMAL ( ) RUSH ( ) SAME DAY ( ) NEXT DAY ( ) 2 DAYS ( ) 3 DAYS

DATA DELIVERABLE REQUIRED

( ) HARD COPY ( ) PDF ( ) GEOTRACKER (GLOBAL ID) _____ ( ) OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: D. McAlister	Printed Name:	Printed Name:
Date: 9-17-14 Time: 1705	Date: Time:	Date: 9-17-14 Time: 1730
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Arlin
Date: 9-17-14 Time: 1705	Date: Time:	Date: 09/17/14 Time: 1730

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74747

CHAIN OF CUSTODY RECORD

№ 88454

AETL JOB No. 74423

COMPANY	Tetra Tech, Inc.
PROJECT MANAGER	T. Vineneve/M. Weinberger
COMPANY ADDRESS	301 E Vanderbilt Way Suite 450, San Bernardino
PHONE / FAX	909-381-1674
PROJECT NAME	Burbank Soils Inv.
PROJECT #	100-580-T32955
SITE NAME AND ADDRESS	
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	AOC18-3-80	74423.16	09/17/14	1238	Soil	1	N/A
2	AOC18-3-85	74423.17		1244			
3	AOC18-3-90	74423.18		1250			
4	AOC18-3-95	74423.19		1255			
5	AOC18-3-100	74423.20		1259			
6	AOC18-3-55-DUP	74423.21		1210			
7	AOC18-3-95-DUP	74423.22		1256	↓	↓	
8	EB-091714-B	74423.23	↓	0700	Water	2	
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

SW6020 Total Cr	SW7199 Hex Cr	HOLD	Total chromium	Hexavalent chromium
		X		
		X		
X	X			
		X	*	*
X	X			
X	X			
X	X			
X	X			

TEST INSTRUCTIONS & COMMENTS

74747.02

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	9	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

[X] NORMAL [ ] RUSH [ ] SAME DAY [ ] NEXT DAY [ ] 2 DAYS [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

[ ] HARD COPY [ ] PDF [ ] GEOTRACKER (GLOBAL ID) _____ [ ] OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	V. McMASTER		Thomas Kelsch
Date / Time:	9-17-14 / 1205	/	9-17-14 / 1730
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:			
Printed Name:	Thomas Kelsch		Actin
Date / Time:	9-17-14 / 1795	/	9/17/14 / 1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

3/3

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CHAIN OF CUSTODY RECORD

№ 89034

74747

AETL JOB No. 74452

Page 1 of 1

COMPANY: Tetra Tech, Inc.
PROJECT MANAGER: T. Villeneuve/N. Weinberger
COMPANY ADDRESS: 301 E. Vanderbilt Way, Suite 450, San Bernardino, CA 92408
PHONE:
FAX: 909-381-1674
PROJECT NAME: Burbank Soils Inv
PROJECT #: 100-560-T32955
SITE NAME AND ADDRESS:
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Total chrom SW6020	HEX chrom SW7199	HOLD	total chromium	hexavalent chromium	TEST INSTRUCTIONS & COMMENTS
1	EB-091914-B	74452.01	09/19/14	0700	water	2	N/A	X	X				
2	AOC17-1-45	74452.02	↓	0800	soil	1	↓	X	X				
3	AOC17-1-50	74452.03		0805						X			
4	AOC17-1-55	74452.04		0816						X			
5	AOC17-1-60	74452.05		0821				X	X				
6	AOC17-1-65	74452.06		0828				X	X				
7	AOC17-1-70	74452.07		0840						X			
8	AOC17-1-75	74452.08		0845						X	*	*	74747.03
9	AOC17-1-80	74452.09		0902				X	X				
10	AOC17-2-90	74452.10		0910				X	X				
11	AOC17-2-95	74452.11		0915						X			
12	AOC17-1-100	74452.12		0921				X	X				
13	AOC17-1-75-DUP	74452.13	↓	0746	↓	↓	↓	X	X				
14													
15													

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: 14
CUSTODY SEALS Y / (N) / NA
RECEIVED IN GOOD COND. (Y) / N
PROPERLY COOLED (Y) / N / NA
SAMPLES INTACT (Y) / N / NA
SAMPLES ACCEPTED (Y) / N

TURN AROUND TIME: ☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: 1. Signature: [signature] Printed Name: P. Henderson Date: 09/19/14 Time: 1015

RELINQUISHED BY: 2. Signature: Printed Name: Date: Time:

RELINQUISHED BY: 3. Signature: Printed Name: Date: Time:

RECEIVED BY: 1. Signature: Printed Name: Date: Time:

RECEIVED BY: 2. Signature: Printed Name: Date: Time:

RECEIVED BY LABORATORY: AETL 3. Signature: [signature] Printed Name: Antin Date: 09/19/14 Time: 1015

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Thursday, October 16, 2014 10:29 AM
To: Cyrus Razmara (cyrus@aetlab.com); Jim Lin (jiml@aetlab.com)
Cc: Wilson, Michael; Villeneuve, Thomas
Subject: Additional Cr analyses-Burbank

Good afternoon, Cyrus. Please analyze the following soil samples for total chromium and hexavalent chromium:

- AOC17-1-75
- AOC18-3-55
- AOC18-3-95

Please be aware that these samples were collected on 9/17 and 9/18, so they are close to the 30-day holding time for hexavalent chromium.

Michael B Weinberger | **Senior Geologist**
Direct: 626.470.2431 | Mobile: 626.319.9207 | Personal Fax: 626.470.2631
michael.weinberger@tetratech.com

Tetra Tech | Divisions
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Tetra Tech, Inc. 301 E. Vanderbilt Way Suite 450 San Bernardino, CA 92408-3559	Project ID: 100-SBO-T32955 Date Received 10/16/2014 Date Reported 10/21/2014

Telephone: (909)381-1674
Attention: Michael Weinberger

Job Number	Order Date	Client
74747	10/16/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 3 samples with the following specification on 10/16/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74747.01	AOC18-3-55	09/17/2014	Soil	1
74747.02	AOC18-3-95	09/17/2014	Soil	1
74747.03	AOC17-1-75	09/19/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ BOU-CR	10/23/2014	2	Normal	mg/Kg
(7199) ^ BOU	10/23/2014	2	Normal	mg/Kg
ASTM-D2216	10/23/2014	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74747	10/16/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 1016142C2

Our Lab I.D.			Method Blank	74747.01	74747.02	74747.03	
Client Sample I.D.				AOC18-3-55	AOC18-3-95	AOC17-1-75	
Date Sampled				09/17/2014	09/17/2014	09/19/2014	
Date Prepared			10/16/2014	10/16/2014	10/16/2014	10/16/2014	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			10/17/2014	10/17/2014	10/17/2014	10/17/2014	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Chromium	0.035	0.100	ND	3.92	10.1	5.07	

QUALITY CONTROL REPORT

QC Batch No: 1016142C2; Dup or Spiked Sample: 74748.01; LCS: Clean Sand; QC Prepared: 10/16/2014; QC Analyzed: 10/17/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	10.2	50.0	51.6	82.8	50.0	52.3	84.2	1.68	75-125	<15

QC Batch No: 1016142C2; Dup or Spiked Sample: 74748.01; LCS: Clean Sand; QC Prepared: 10/16/2014; QC Analyzed: 10/17/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	50.0	47.2	94.4	50.0	46.3	92.6	1.93	75-125	<15	

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Page: **3**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74747	10/16/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 101714-1

Our Lab I.D.			Method Blank	74747.01	74747.02	74747.03	
Client Sample I.D.				AOC18-3-55	AOC18-3-95	AOC17-1-75	
Date Sampled				09/17/2014	09/17/2014	09/19/2014	
Date Prepared			10/17/2014	10/17/2014	10/17/2014	10/17/2014	
Preparation Method			3060A	3060A	3060A	3060A	
Date Analyzed			10/17/2014	10/17/2014	10/17/2014	10/17/2014	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	

QUALITY CONTROL REPORT

QC Batch No: 101714-1; Dup or Spiked Sample: 74747.01; LCS: Clean Sand; QC Prepared: 10/17/2014; QC Analyzed: 10/17/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.238	95.0	0.250	0.238	95.0	<1	80-120	<20

QC Batch No: 101714-1; Dup or Spiked Sample: 74747.01; LCS: Clean Sand; QC Prepared: 10/17/2014; QC Analyzed: 10/17/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.231	92.4	0.250	0.233	93.2	<1	80-120	<20	

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Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **4**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74747	10/16/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 102014-1

Our Lab I.D.			Method Blank	74747.01	74747.02	74747.03	
Client Sample I.D.				AOC18-3-55	AOC18-3-95	AOC17-1-75	
Date Sampled				09/17/2014	09/17/2014	09/19/2014	
Date Prepared			10/20/2014	10/20/2014	10/20/2014	10/20/2014	
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	
Date Analyzed			10/21/2014	10/21/2014	10/21/2014	10/21/2014	
Matrix			Soil	Soil	Soil	Soil	
Units			% wt	% wt	% wt	% wt	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Moisture Content	0.1	0.1	ND	3.40	3.00	4.50	

QUALITY CONTROL REPORT

QC Batch No: 102014-1; Dup or Spiked Sample: 74747.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	3.40	3.30	3.0	<20						

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**4**
Date Received	**09/17/2014**
Date Reported	**10/21/2014**

Job Number	Order Date	Client
74748	10/16/2014	T/TSB2

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation
Site: Burbank Metals

Enclosed please find results of analyses of 2 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

Y2

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

74748

№ 88460

AETL JOB No: ~~74424~~

COMPANY: TETRATECH	PROJECT MANAGER: M. WEINBERGER
COMPANY ADDRESS:	PHONE:
	FAX:
PROJECT NAME: BURBANK METALS	PROJECT #: 100-5B0-T32955
SITE NAME AND ADDRESS:	PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020-Cr	7199-Cr6+	Hold	Chromium Hex Cr						TEST INSTRUCTIONS & COMMENTS
1	AOC18-1-70	74424.16	~~9-17-14~~ ~~10/23~~	1022	SOIL	1-BRASS RING	N/A	X	X								* Add: 10/16/14 (FV)
2	AOC18-1-75	74424.17	9-17-14	1030						X							
3	AOC18-1-80	74424.18		1034				X	X								
4	AOC18-1-85	~~74424.19~~		1040						X	*	*					74748.01
5	AOC18-1-95	74424.20		1100		1-JAR		X	X								
6	AOC18-1-95-DUP	74424.21		1101		1-JAR		X	X								
7	AOC18-1-100	74424.22		1112		1-JAR		X	X								
8	AOC19-1-5	74424.23		1405		1-BRASS RING		X	X								
9	AOC19-1-10	74424.24		1407		1-BRASS RING				X							
10	AOC19-1-15	74424.25		1409				X	X								
11	AOC19-1-20	74424.26		1412						X							
12	AOC19-1-25	74424.27		1415				X	X								
13	AOC19-1-30	74424.28		1417						X							
14	AOC19-1-35	74424.29		1420		1-JAR		X	X								
15	AOC19-1-35-DUP	74424.30		1421		1-JAR		X	X								

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y / N / NA)	
CUSTODY SEALS (Y / N / NA)		SAMPLES INTACT (Y / N / NA)	
RECEIVED IN GOOD COND. (Y / N)		SAMPLES ACCEPTED (Y / N)	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: D. MCALISTER	Printed Name:	Printed Name: THOMAS REBARA
Date: 9-17-14 Time: 1705	Date: Time:	Date: 9-17-14 Time: 1730
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: Thomas Robinson	Printed Name:	Printed Name: Jean Lander
Date: 9-17-14 Time: 1705	Date: Time:	Date: 9/17/14 Time: 1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

2/2

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CHAIN OF CUSTODY RECORD

№ 88458

AETL JOB No. 74748 ~~74438~~

Page 2 of 2

COMPANY: TETRATECH	PROJECT MANAGER: M. WEINBERGER
COMPANY ADDRESS:	PHONE:
	FAX:
PROJECT NAME: BURBANK MEETINGS	PROJECT #: 100-SBU-T32955
SITE NAME AND ADDRESS:	PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	AOC19-2-70	74738.16	9-18-14	1135	SOIL	1-BRASS RING	N/A
2	AOC19-2-75	~~74738.17~~		1140		1-BRASS RING	
3	AOC19-2-85	74738.18		1156		1-JAR	
4	AOC19-2-85-DUP	74738.19		1157		1-JAR	
5	AOC19-2-90	74738.20		1201		1-BRASS RING	
6	AOC19-2-95	74738.21		1205		1-BRASS RING	
7	AOC19-2-100	74738.22		1212		1-JAR	
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

6020-Cr	7199-Cr6+	HOLD		Chromium	Hex Cr				
X	X								
		X		*	*				
X	X								
X	X								
		X							
X	X								
X	X								

TEST INSTRUCTIONS & COMMENTS

* Add: 10/16/14 (Fr)

74748.02

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	7	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: P. Henderson	Printed Name:	Printed Name: Sam Is-P
Date: 9/18/14 Time: 1645	Date: Time:	Date: 9/18/14 Time: 1715
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: Sam Is-P	Printed Name:	Printed Name: Lebo Glander
Date: 9/18/14 Time:	Date: Time:	Date: 09/18/14 Time: 1715

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Monday, October 06, 2014 9:47 AM
To: Cyrus Razmara; Cyphers, Darrell; Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Results of analysis (AETL Job No. 74424) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Good morning, Cyrus. Please analyze AOC18-1-85 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Monday, September 29, 2014 11:18 AM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Results of analysis (AETL Job No. 74424) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank, CA.

AETL Job No: 74424 (All soil results are based on dry weight).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

74424.19 sleeves
18-1-85

Cyrus Razmara

From: Weinberger, Michael [Michael.Weinberger@tetratech.com]
Sent: Monday, October 06, 2014 9:51 AM
To: Cyrus Razmara; Cyphers, Darrell; Nicoloff, Fred; Wilson, Michael; Villeneuve, Thomas
Subject: RE: Revised Results of analysis (AETL Job No. 74438) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Good morning, Cyrus. Please analyze AOC19-2-75 for chromium and hexavalent chromium.

From: Cyrus Razmara [mailto:cyrus@aetlab.com]
Sent: Wednesday, October 01, 2014 1:49 PM
To: Cyphers, Darrell; Feldman, Mark; Nicoloff, Fred; Wilson, Michael; Weinberger, Michael; Villeneuve, Thomas
Subject: Revised Results of analysis (AETL Job No. 74438) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank CA.

Dear Michael Wei., Thomas, Michael Wil., Mark, Fred, and Darrell:

Herewith please find Results of analysis (In Summary Table and PDF formats) of soil samples from "Burbank Metals Investigation, Project No.:100-SBO-T32955" located in Burbank, CA.

AETL Job No: 74438 (All soil results are based on dry weight).

This SDG is being re-submitted because the original total chromium result (111 mg/Kg) of sample 74438.22 (AOC19-2-100) was being re-evaluated. Due to the heterogeneous nature of this sample, average result of four analyses (38.5 mg/Kg) has been submitted in this revised report.

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.
CEO & Laboratory Director
American Environmental Testing Laboratory

74438.17 Tony Sheets

American Environmental Testing Laboratory Inc.
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Ordered By

Tetra Tech, Inc. 301 E. Vanderbilt Way Suite 450 San Bernardino, CA 92408-3559	Project ID: 100-SBO-T32955 Date Received 09/17/2014 Date Reported 10/21/2014
Telephone: (909)381-1674 Attention: Michael Weinberger	

Job Number	Order Date	Client
74748	10/16/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 2 samples with the following specification on 10/16/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74748.01	AOC18-1-85	09/17/2014	Soil	1
74748.02	AOC19-2-75	09/18/2014	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ BOU-CR	10/23/2014	2	Normal	mg/Kg
(7199) ^ BOU	10/23/2014	2	Normal	mg/Kg
ASTM-D2216	10/23/2014	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **2**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74748	09/17/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 1016142C2

Our Lab I.D.			Method Blank	74748.01	74748.02		
Client Sample I.D.				AOC18-1-85	AOC19-2-75		
Date Sampled				09/17/2014	09/18/2014		
Date Prepared			10/16/2014	10/16/2014	10/16/2014		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			10/17/2014	10/17/2014	10/17/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium	0.035	0.100	ND	11.2	4.95		

QUALITY CONTROL REPORT

QC Batch No: 1016142C2; Dup or Spiked Sample: 74748.01; LCS: Clean Sand; QC Prepared: 10/16/2014; QC Analyzed: 10/17/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	10.2	50.0	51.6	82.8	50.0	52.3	84.2	1.68	75-125	<15

QC Batch No: 1016142C2; Dup or Spiked Sample: 74748.01; LCS: Clean Sand; QC Prepared: 10/16/2014; QC Analyzed: 10/17/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	50.0	47.2	94.4	50.0	46.3	92.6	1.93	75-125	<15	

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **3**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74748	09/17/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 101714-1

Our Lab I.D.			Method Blank	74748.01	74748.02		
Client Sample I.D.				AOC18-1-85	AOC19-2-75		
Date Sampled				09/17/2014	09/18/2014		
Date Prepared			10/17/2014	10/17/2014	10/17/2014		
Preparation Method			3060A	3060A	3060A		
Date Analyzed			10/17/2014	10/17/2014	10/17/2014		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Chromium (VI)	0.10	0.10	ND	ND	ND		

QUALITY CONTROL REPORT

QC Batch No: 101714-1; Dup or Spiked Sample: 74747.01; LCS: Clean Sand; QC Prepared: 10/17/2014; QC Analyzed: 10/17/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.238	95.0	0.250	0.238	95.0	<1	80-120	<20

QC Batch No: 101714-1; Dup or Spiked Sample: 74747.01; LCS: Clean Sand; QC Prepared: 10/17/2014; QC Analyzed: 10/17/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.231	92.4	0.250	0.233	93.2	<1	80-120	<20	

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ANALYTICAL RESULTS

Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way
Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attn: Michael Weinberger
Page: **4**

Site

Burbank Metals

Project ID: 100-SBO-T32955
Project Name: Burbank Metals Investigation

AETL Job Number	Submitted	Client
74748	09/17/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 102014-1

Our Lab I.D.			Method Blank	74748.01	74748.02		
Client Sample I.D.				AOC18-1-85	AOC19-2-75		
Date Sampled				09/17/2014	09/18/2014		
Date Prepared			10/20/2014	10/20/2014	10/20/2014		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			10/21/2014	10/21/2014	10/21/2014		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	ND	9.00	2.70		

QUALITY CONTROL REPORT

QC Batch No: 102014-1; Dup or Spiked Sample: 74747.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	3.40	3.30	3.0	<20						

American Environmental Testing Laboratory Inc.
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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Number of Pages	**25**
Date Received	**11/06/2014**
Date Reported	**11/14/2014**

Job Number	Order Date	Client
74978	11/06/2014	T/TSB2

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation
Site: Burbank Operable Unit

Enclosed please find results of analyses of 1 water and 14 soil samples which were analyzed as specified on the attached chain of custody.

All results of soil samples are based on dry weight.

If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

74978

CHAIN OF CUSTODY RECORD

TETRA TECH

3475 E. Foothill Boulevard
Pasadena, California 91107
Telephone: (626) 351-4664
Fax: (626) 351-5291

Shipped to: AETL
2908 N Naomi Street
Burbank, CA 91504
Attn: Jim Lin

Date: 11/06/14

PAGE 1 OF 3

Client: Lockheed Martin Corporation

Project Name: Burbank Operable Unit

Burbank Soil Investigation

Project Manager: Michael Weinberger
626-470-2431
michael.weinberger@tetratech.com

TC#: 100-SBO-T32955.TM-B1.04

ANALYTICAL METHODS

Turn Around Time: *Standard*

Comments: Report to the MDL

Sample No.	Date	Time	Hexavalent Chromium - 7199	Total Chromium - 6010B	VOCs - 8260B	Hold	pH	Matrix	Preservative	Container Type	Number of Containers	
EB-110614	11/06/14	0700	X	X				W	NP	P	2	74978.01
AOC4-1-5		0851	X	X			X	S	NP	SB	1	74978.02
AOC4-1-10		0852				X						74978.03
AOC4-1-15		0900	X	X			X					74978.04
AOC4-1-20		0905				X						74978.05
AOC4-1-25		0908	X	X			X					74978.06
AOC4-1-30		0913				X						74978.07
AOC4-1-35		0918				X						74978.08
AOC4-1-40		0922	X	X			X					74978.09
AOC4-1-45		0925				X						74978.10
AOC4-1-50		0930	X	X			X					74978.11
AOC4-1-55		0934	X	X			X					74978.12

Matrix Type: S - Soil, W - Water, SL - Sludge

Container Type: G - Glass Bottle / VOA, SS - Stainless Steel Sleeve, P - Plastic, SB - Brass Sleeve

Preservative:

Temperature Blank (circle one) YES / NO

Relinquished By: P. Henderson	Signature	TETRA TECH		Time: 1306	TOTAL NUMBER OF CONTAINERS: 13 of 28
Received By: Cameron Powers	Signature	Company: AETL	Date: 11/6/14	Time: 1306	METHOD OF SHIPMENT: Courrier
Relinquished By: C. Powers	Signature	Company: AETL	Date: 11/6/14	Time: 1332	SPECIAL SHIPMENT / HANDLING / STORAGE REQUIREMENTS:
Received By: Jean Claude	Signature	Company: AETL	Date: 11/06/14	Time: 1332	AIRBILL NO:

TETRA TECH
3475 E. Foothill Boulevard
Pasadena, California 91107
Telephone: (626) 351-4664
Fax: (626) 351-5291

Shipped to: AETL
2908 N Naomi Street
Burbank, CA 91504
Attn: Jim Lin

74978

CHAIN OF CUSTODY RECORD

Date: 11/06/14 PAGE 2 OF 3

Client: Lockheed Martin Corporation
Project Name: Burbank Operable Unit
Burbank Soil Investigation
Project Manager: Michael Weinberger
626-470-2431
michael.weinberger@tetratech.com
TC#: 100-SBO-T32955.TM-B1.04

Turn Around Time: *Standard*
Comments: Report to the MDL

Sample No.	Date	Time	Hexavalent Chromium - 7199	Total Chromium - 6010B	VOCs - 8260B	HOLD	pH	Matrix	Preservative	Container Type	Number of Containers	
								S	NR	SB		
AOC4-1-~~60~~ 65	11/06/14	0945	X	X			X	↓	↓	↓	1	74978.13
AOC4-1-70	↓	0952				X		↓	↓	↓	↓	74978.14
AOC4-1-75	↓	1000	X	X			X	↓	↓	↓	↓	74978.15
AOC4-1-80	↓	1003				X		↓	↓	↓	↓	74978.16
AOC4-1-85	↓	1006				X		↓	↓	↓	↓	74978.17
AOC4-1-90	↓	1016	X	X			X	↓	↓	↓	↓	74978.18
AOC4-1-95	↓	1020	X	X			X	↓	↓	↓	↓	74978.19
AOC4-1-100	↓	1027				X		↓	↓	↓	↓	74978.20
AOC4-1-105	↓	1033				X		↓	↓	↓	↓	74978.21
AOC4-1-110	↓	1044	X	X			X	↓	↓	↓	↓	74978.22
AOC4-1-115	↓	1050				X		↓	↓	↓	↓	74978.23
AOC4-1-120	↓	1100	X	X			X	↓	↓	↓	↓	74978.24

Matrix Type: S - Soil, W - Water, SL - Sludge
Container Type: G - Glass Bottle / VOA, SS - Stainless Steel Sleeve, P - Plastic, SB - Brass sleeve
Preservative:
Temperature Blank (circle one) YES / NO

	Signature	Company	Date	Time
Relinquished By: P. Henderson	[signature]	TETRA TECH		1306
Received By: Cameron Pownall	[signature]	AETL	11/6/14	1306
Relinquished By: C. Pownall	[signature]	AETL	11/6/14	1332
Received By: Jean claude	[signature]	AETL	11/06/14	1332

TOTAL NUMBER OF CONTAINERS: 12 of 28
METHOD OF SHIPMENT: Courrier
SPECIAL SHIPMENT / HANDLING / STORAGE REQUIREMENTS:
AIRBILL NO:

TETRA TECH

3475 E. Foothill Boulevard
Pasadena, California 91107
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Burbank, CA 91504
Attn: Jim Lin

74978

CHAIN OF CUSTODY RECORD

Date: 11/06/14 PAGE 3 OF 3

Client: Lockheed Martin Corporation

Project Name: Burbank Operable Unit

Burbank Soil Investigation

Project Manager: Michael Weinberger
626-470-2431
michael.weinberger@tetratech.com

TC#: 100-SBO-T32955.TM-B1.04

ANALYTICAL METHODS

Sample No.	Date	Time	Hexavalent Chromium - 7199	Total Chromium - 6010B	VOCs - 8260B	HOLD	pH	Matrix	Preservative	Container Type	Number of Containers	Comments
AOC4-1-125	11/06/14	1110				X		S	NR	SB	1	74978.25
AOC4-1-130	↓	1125	X	X			X	↓	↓	↓	↓	74978.26
AOC4-1-135	↓	1141	X	X			X	↓	↓	↓	↓	74978.27

Turn Around Time: *Standard*

Comments: Report to the MDL

Matrix Type: S - Soil, W - Water, SL - Sludge

Container Type: G - Glass Bottle / VOA, SS - Stainless Steel Sleeve, P - Plastic, SB - Brass Sleeve

Preservative:

Temperature Blank (circle one) YES / NO

Relinquished By: P. Henderson	Signature	TETRA TECH	Time: 1306	TOTAL NUMBER OF CONTAINERS: 3 of 28	
Received By: [illegible]	Signature	Company: TTCL	Date: 11/6/14	Time: 1306	METHOD OF SHIPMENT: Courrier 3 of
Relinquished By: C. [illegible]	Signature	Company: TTCL	Date: 11/6/14	Time: 1332	SPECIAL SHIPMENT / HANDLING / STORAGE REQUIREMENTS:
Received By: Jean Claude	Signature	Company: AETL	Date: 11/06/14	Time: 1332	AIRBILL NO:

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Ordered By

Tetra Tech, Inc.
301 E. Vanderbilt Way Suite 450
San Bernardino, CA 92408-3559

Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955.TM-B1
Date Received 11/06/2014
Date Reported 11/14/2014

Job Number	Order Date	Client
74978	11/06/2014	T/TSB2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 27 samples with the following specification on 11/06/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74978.01	EB-110614	11/06/2014	Aqueous	2

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ CR	11/13/2014	2	Normal	mg/L
7199 ^ MG/L	11/13/2014	2	Normal	mg/L
9040B	11/13/2014	2	Normal	pH unit

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74978.02	AOC4-1-5	11/06/2014	Soil	1
74978.04	AOC4-1-15	11/06/2014	Soil	1
74978.06	AOC4-1-25	11/06/2014	Soil	1
74978.09	AOC4-1-40	11/06/2014	Soil	1
74978.11	AOC4-1-50	11/06/2014	Soil	1
74978.12	AOC4-1-55	11/06/2014	Soil	1
74978.13	AOC4-1-65	11/06/2014	Soil	1
74978.15	AOC4-1-75	11/06/2014	Soil	1
74978.18	AOC4-1-90	11/06/2014	Soil	1
74978.19	AOC4-1-95	11/06/2014	Soil	1
74978.22	AOC4-1-110	11/06/2014	Soil	1
74978.24	AOC4-1-120	11/06/2014	Soil	1
74978.26	AOC4-1-130	11/06/2014	Soil	1
74978.27	AOC4-1-135	11/06/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ BOU-CR	11/13/2014	2	Normal	mg/Kg
(7199) ^ BOU	11/13/2014	2	Normal	mg/Kg
9045C	11/13/2014	2	Normal	pH unit
ASTM-D2216	11/13/2014	2	Normal	% wt

Continued

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Telephone: (909)381-1674
Attention: Michael Weinberger

Project ID: 100-SBO-T32955.TM-B1
Date Received 11/06/2014
Date Reported 11/14/2014

Job Number	Order Date	Client
74978	11/06/2014	T/TSB2

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
74978.03	AOC4-1-10	11/06/2014	Soil	1
74978.05	AOC4-1-20	11/06/2014	Soil	1
74978.07	AOC4-1-30	11/06/2014	Soil	1
74978.08	AOC4-1-35	11/06/2014	Soil	1
74978.10	AOC4-1-45	11/06/2014	Soil	1
74978.14	AOC4-1-70	11/06/2014	Soil	1
74978.16	AOC4-1-80	11/06/2014	Soil	1
74978.17	AOC4-1-85	11/06/2014	Soil	1
74978.20	AOC4-1-100	11/06/2014	Soil	1
74978.21	AOC4-1-105	11/06/2014	Soil	1
74978.23	AOC4-1-115	11/06/2014	Soil	1
74978.25	AOC4-1-125	11/06/2014	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	11/13/2014	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Site

Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 1106141C5

Our Lab I.D.			Method Blank	**74978.01**			
Client Sample I.D.				EB-110614			
Date Sampled				11/06/2014			
Date Prepared			11/06/2014	11/06/2014			
Preparation Method			3005A	3005A			
Date Analyzed			11/10/2014	11/10/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (Total)	0.025	0.100	ND	ND			

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 110614-1

Our Lab I.D.			Method Blank	74978.01			
Client Sample I.D.				EB-110614			
Date Sampled				11/06/2014			
Date Prepared			11/06/2014	11/06/2014			
Preparation Method			7199	7199			
Date Analyzed			11/06/2014	11/06/2014			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium (VI)	0.002	0.002	ND	ND			

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Burbank Operable Unit

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Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 110714-1

Our Lab I.D.			**74978.01**				
Client Sample I.D.			EB-110614				
Date Sampled			11/06/2014				
Date Prepared			11/07/2014				
Preparation Method			9040B				
Date Analyzed			11/07/2014				
Matrix			Aqueous				
Units			pH unit				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
pH	0.01	0.01	7.64				
Temperature (C)	0.01	0.01	25.3				

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 1106141C3

Our Lab I.D.			Method Blank	74978.02	74978.04	74978.06	74978.09
Client Sample I.D.				AOC4-1-5	AOC4-1-15	AOC4-1-25	AOC4-1-40
Date Sampled				11/06/2014	11/06/2014	11/06/2014	11/06/2014
Date Prepared			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.035	0.100	ND	19.3	5.01	24.0	19.3

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 1106141C3

Our Lab I.D.			74978.11	74978.12	74978.13	74978.15	
Client Sample I.D.			AOC4-1-50	AOC4-1-55	AOC4-1-65	AOC4-1-75	
Date Sampled			11/06/2014	11/06/2014	11/06/2014	11/06/2014	
Date Prepared			11/06/2014	11/06/2014	11/06/2014	11/06/2014	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			11/10/2014	11/10/2014	11/10/2014	11/10/2014	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Chromium	0.035	0.100	25.8	7.55	6.45	12.4	

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 1106141C4

Our Lab I.D.			Method Blank	74978.18	74978.19	74978.22	74978.24
Client Sample I.D.				AOC4-1-90	AOC4-1-95	AOC4-1-110	AOC4-1-120
Date Sampled				11/06/2014	11/06/2014	11/06/2014	11/06/2014
Date Prepared			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			11/10/2014	11/10/2014	11/10/2014	11/10/2014	11/10/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium	0.035	0.100	ND	21.3	5.52	4.47	3.13

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 1106141C4

Our Lab I.D.			74978.26	74978.27			
Client Sample I.D.			AOC4-1-130	AOC4-1-135			
Date Sampled			11/06/2014	11/06/2014			
Date Prepared			11/06/2014	11/06/2014			
Preparation Method			3050B	3050B			
Date Analyzed			11/10/2014	11/10/2014			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Chromium	0.035	0.100	14.1	21.7			

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 110714-1

Our Lab I.D.			Method Blank	74978.02	74978.04	74978.06	74978.09
Client Sample I.D.				AOC4-1-5	AOC4-1-15	AOC4-1-25	AOC4-1-40
Date Sampled				11/06/2014	11/06/2014	11/06/2014	11/06/2014
Date Prepared			11/07/2014	11/07/2014	11/07/2014	11/07/2014	11/07/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			11/07/2014	11/07/2014	11/07/2014	11/07/2014	11/07/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

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Site

Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 110714-1

Our Lab I.D.			74978.11	74978.12	74978.13	74978.15	74978.18
Client Sample I.D.			AOC4-1-50	AOC4-1-55	AOC4-1-65	AOC4-1-75	AOC4-1-90
Date Sampled			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
Date Prepared			11/07/2014	11/07/2014	11/07/2014	11/07/2014	11/07/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			11/07/2014	11/07/2014	11/07/2014	11/07/2014	11/07/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

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Site

Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 110714-1

Our Lab I.D.			74978.19	74978.22	74978.24	74978.26	74978.27
Client Sample I.D.			AOC4-1-95	AOC4-1-110	AOC4-1-120	AOC4-1-130	AOC4-1-135
Date Sampled			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
Date Prepared			11/07/2014	11/07/2014	11/07/2014	11/07/2014	11/07/2014
Preparation Method			3060A	3060A	3060A	3060A	3060A
Date Analyzed			11/07/2014	11/07/2014	11/07/2014	11/07/2014	11/07/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Chromium (VI)	0.10	0.10	ND	ND	ND	ND	ND

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: 9045C, Soil and Waste pH

QC Batch No: 110714-1

Our Lab I.D.			74978.02	74978.04	74978.06	74978.09	74978.11
Client Sample I.D.			AOC4-1-5	AOC4-1-15	AOC4-1-25	AOC4-1-40	AOC4-1-50
Date Sampled			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
Date Prepared			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
Preparation Method			9045C	9045C	9045C	9045C	9045C
Date Analyzed			11/07/2014	11/07/2014	11/07/2014	11/07/2014	11/07/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			pH unit	pH unit	pH unit	pH unit	pH unit
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
pH	1.00	1.00	7.66	8.92	8.14	8.15	8.04
Temperature (C)	0.1	0.1	21.9	21.9	21.8	21.8	22.1

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: 9045C, Soil and Waste pH

QC Batch No: 110714-1

Our Lab I.D.			74978.12	74978.13	74978.15	74978.18	74978.19
Client Sample I.D.			AOC4-1-55	AOC4-1-65	AOC4-1-75	AOC4-1-90	AOC4-1-95
Date Sampled			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
Date Prepared			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
Preparation Method			9045C	9045C	9045C	9045C	9045C
Date Analyzed			11/07/2014	11/07/2014	11/07/2014	11/07/2014	11/07/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			pH unit	pH unit	pH unit	pH unit	pH unit
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
pH	1.00	1.00	8.71	8.88	8.91	7.99	8.40
Temperature (C)	0.1	0.1	22.1	22.3	22.2	22.3	22.2

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: 9045C, Soil and Waste pH

QC Batch No: 110714-1

Our Lab I.D.			74978.22	74978.24	74978.26	74978.27	
Client Sample I.D.			AOC4-1-110	AOC4-1-120	AOC4-1-130	AOC4-1-135	
Date Sampled			11/06/2014	11/06/2014	11/06/2014	11/06/2014	
Date Prepared			11/06/2014	11/06/2014	11/06/2014	11/06/2014	
Preparation Method			9045C	9045C	9045C	9045C	
Date Analyzed			11/07/2014	11/07/2014	11/07/2014	11/07/2014	
Matrix			Soil	Soil	Soil	Soil	
Units			pH unit	pH unit	pH unit	pH unit	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
pH	1.00	1.00	8.80	8.76	8.16	8.31	
Temperature (C)	0.1	0.1	22.3	22.3	22.4	22.4	

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 110614-1

Our Lab I.D.			74978.02	74978.04	74978.06	74978.09	74978.11
Client Sample I.D.			AOC4-1-5	AOC4-1-15	AOC4-1-25	AOC4-1-40	AOC4-1-50
Date Sampled			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
Date Prepared			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			11/07/2014	11/07/2014	11/07/2014	11/07/2014	11/07/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	12.8	3.50	21.2	12.8	22.6

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 110614-1

Our Lab I.D.			74978.12	74978.13	74978.15	74978.18	74978.19
Client Sample I.D.			AOC4-1-55	AOC4-1-65	AOC4-1-75	AOC4-1-90	AOC4-1-95
Date Sampled			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
Date Prepared			11/06/2014	11/06/2014	11/06/2014	11/06/2014	11/06/2014
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216
Date Analyzed			11/07/2014	11/07/2014	11/07/2014	11/07/2014	11/07/2014
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	3.80	2.90	2.70	25.9	6.30

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 110614-1

Our Lab I.D.			74978.22	74978.24	74978.26	74978.27	
Client Sample I.D.			AOC4-1-110	AOC4-1-120	AOC4-1-130	AOC4-1-135	
Date Sampled			11/06/2014	11/06/2014	11/06/2014	11/06/2014	
Date Prepared			11/06/2014	11/06/2014	11/06/2014	11/06/2014	
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216	ASTM-D2216	
Date Analyzed			11/07/2014	11/07/2014	11/07/2014	11/07/2014	
Matrix			Soil	Soil	Soil	Soil	
Units			% wt	% wt	% wt	% wt	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Moisture Content	0.1	0.1	5.20	2.70	20.8	22.9	

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: 6020, Chromium by ICP/MS

QC Batch No: 1106141C5; Dup or Spiked Sample: 74978.01; LCS: Clean Water; QC Prepared: 11/06/2014; QC Analyzed: 11/10/2014; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (Total)	0.00	0.0100	0.0100	107	0.0100	0.0100	109	1.85	75-125	<15

QC Batch No: 1106141C5; Dup or Spiked Sample: 74978.01; LCS: Clean Water; QC Prepared: 11/06/2014; QC Analyzed: 11/10/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (Total)	0.0100	0.0100	101	0.0100	0.0100	106	4.83	75-125	<15	

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: 7199, Chromium Hexavalent by Ion Chromatography

QC Batch No: 110614-1; Dup or Spiked Sample: 74966.01; LCS: Clean Water; LCS Prepared: 11/06/2014; LCS Analyzed: 11/06/2014; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	10.0	9.05	90.5	10.0	9.84	98.4	8.4	80-120	<20	

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: 9040B, pH Electrometric Measurement

QC Batch No: 110714-1; Dup or Spiked Sample: 74987.02; LCS: Clean Water; LCS Prepared: 11/07/2014; LCS Analyzed: 11/07/2014; Units: pH unit

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
pH	7.33	7.39	<1	<15	7.00	7.00	100	80-120		

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 1106141C3; Dup or Spiked Sample: 74978.02; LCS: Clean Sand; QC Prepared: 11/06/2014; QC Analyzed: 11/10/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	16.8	10.0	25.7	89.0	10.0	24.8	80.0	10.7	75-125	<15

QC Batch No: 1106141C3; Dup or Spiked Sample: 74978.02; LCS: Clean Sand; QC Prepared: 11/06/2014; QC Analyzed: 11/10/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	10.0	10.5	105	10.0	10.6	106	<1	75-125	<15	

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: (6020), Chromium by ICPMS

QC Batch No: 1106141C4; Dup or Spiked Sample: 74978.17; LCS: Clean Sand; QC Prepared: 11/06/2014; QC Analyzed: 11/10/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium	3.32	10.0	13.1	97.8	10.0	13.0	96.8	1.03	75-125	<15

QC Batch No: 1106141C4; Dup or Spiked Sample: 74978.17; LCS: Clean Sand; QC Prepared: 11/06/2014; QC Analyzed: 11/10/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium	10.0	10.5	105	10.0	10.4	104	<1	75-125	<15	

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Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: (7199), Chromium Hexavalent by Ion Chromatography

QC Batch No: 110714-1; Dup or Spiked Sample: 74978.02; LCS: Clean Sand; QC Prepared: 11/07/2014; QC Analyzed: 11/07/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Chromium (VI)	0.00	0.250	0.258	103	0.250	0.263	105	1.9	80-120	<20

QC Batch No: 110714-1; Dup or Spiked Sample: 74978.02; LCS: Clean Sand; QC Prepared: 11/07/2014; QC Analyzed: 11/07/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Chromium (VI)	0.250	0.250	100	0.250	0.248	99.2	<1	80-120	<20	

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Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: 9045C, Soil and Waste pH

QC Batch No: 110714-1; Dup or Spiked Sample: 74978.02; LCS: Clean Sand; LCS Prepared: 11/06/2014; LCS Analyzed: 11/07/2014; Units: pH unit

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
pH	7.66	7.77	1.4	<15	7.00	6.98	99.7	80-120		

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Burbank Operable Unit

Project ID: 100-SBO-T32955.TM-B1
Project Name: Burbank Soil Investigation

AETL Job Number	Submitted	Client
74978	11/06/2014	T/TSB2

Method: ASTM-D2216, Moisture Content

QC Batch No: 110614-1; Dup or Spiked Sample: 74978.02; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	12.8	13.5	5.3	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

Appendix G
Laboratory Geotechnical Reports

Additional Site Investigation Report

Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1

Burbank, California

SUMMARY OF LABORATORY TEST RESULTS

PROJECT NAME: Burbank Operable Unit

EGLAB JOB NO.: 14-004-003

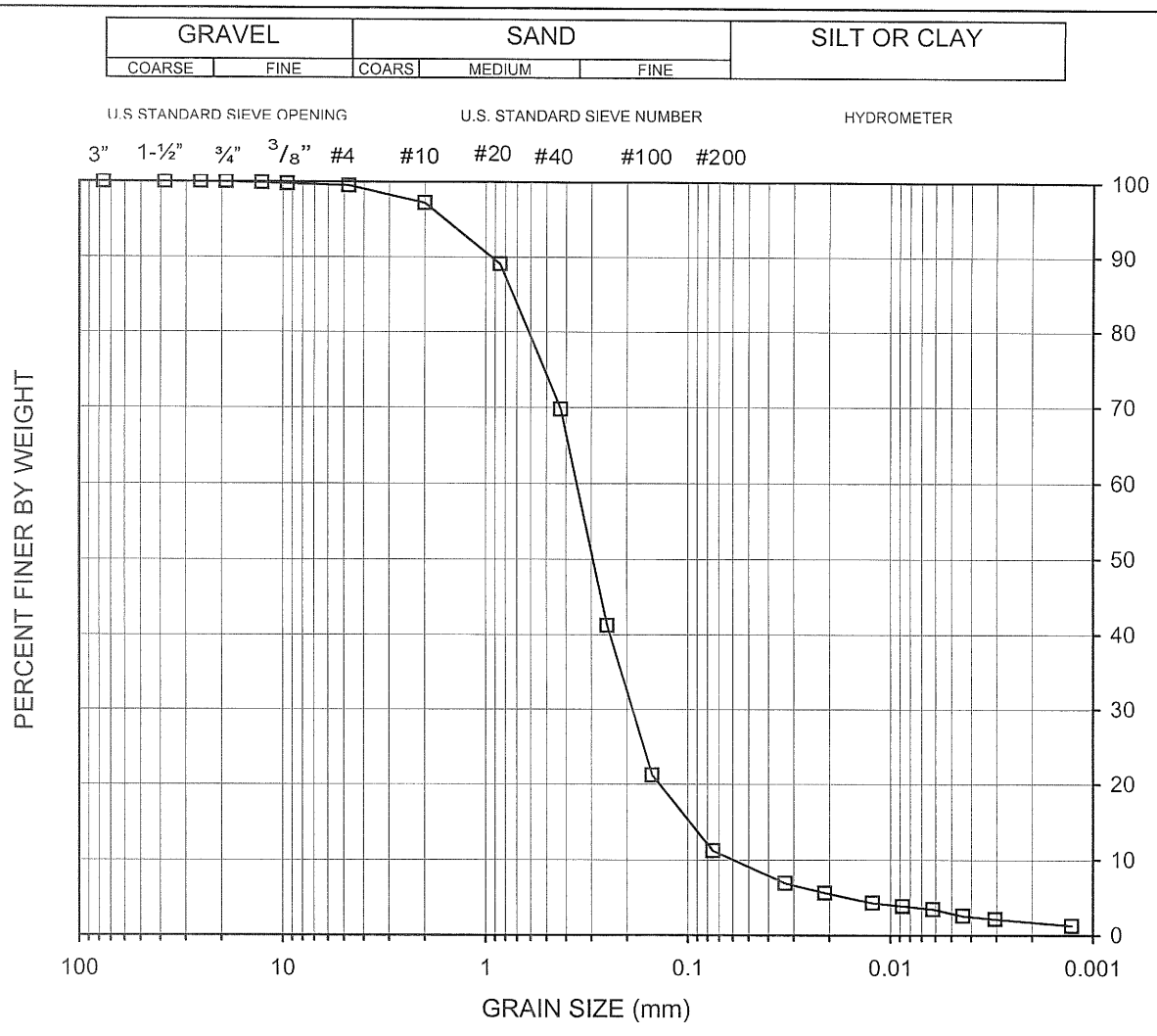
PROJECT NO.: 100-SBO-T32955.TM-B1.04

CLIENT: Tetra Tech, Inc.

DATE: 10/8/2014

SUMMARIZED BY: JT

SAMPLE NO.	DEPTH (ft)	MOISTURE CONTENT ASTM D2216 (%)	DRY DENSITY ASTM D2937 (pcf)	SPECIFIC GRAVITY ASTM D854	TOTAL POROSITY API RP40 (%)
AOC 1-1-131	131.0	6.5	101.0	2.718	40.49
AOC 1-1-136	136.0	11.7	119.9	2.717	29.31
AOC 2-1-61	61.0	6.1	121.3	2.714	28.38
AOC 3-1-56	56.0	26.4	97.9	2.781	43.58
AOC 5-1-41	41.0	2.9	105.1	2.695	37.55
AOC 7-1-75.5	75.5	2.5	100.0	2.694	40.53
AOC 7-2-125	125.0	21.0	102.3	2.750	40.44
AOC 11-1-30	30.0	4.7	93.6	2.707	44.60
AOC 13-2-66.5	66.5	4.3	104.9	2.723	38.32
AOC 14-1-75	75.0	2.9	114.7	2.701	31.99
AOC 17-1-101	101.0	4.8	109.8	2.738	35.79
AOC 20-2-25	25.0	4.0	103.8	2.675	37.86



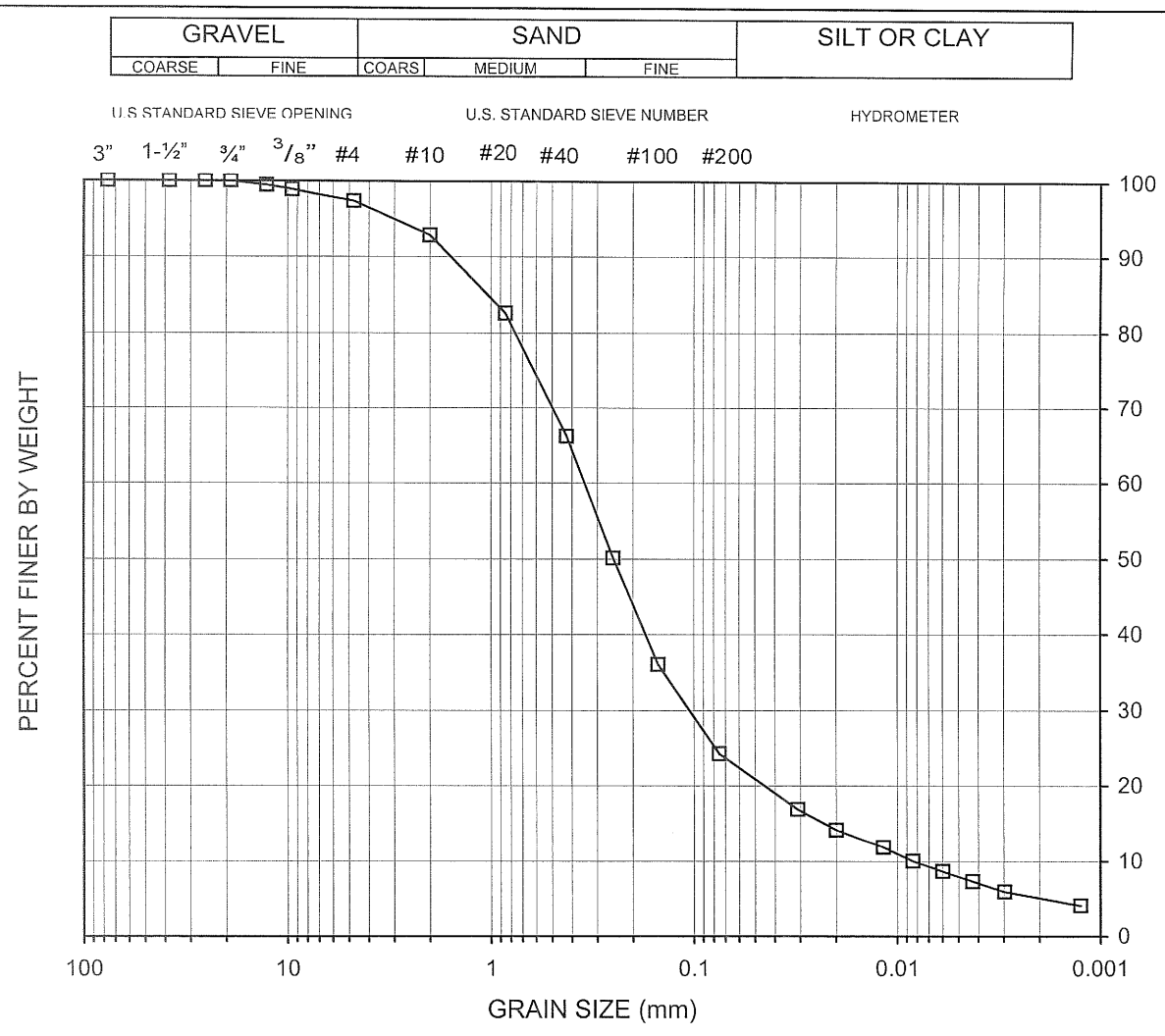
SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	AOC 1-1-131	131.0	Ring	SW-SM	N/A	N/A

EGLAB, INC.

Project Name: Burbank Operable Unit
Client: Tetra Tech, Inc.
Job No.: 100-SBO-T32955.TM-B1.04
EGLAB Project No.: 14-004-003

GRAINSIZE DISTRIBUTION CURVE

10/08/14 (ASTM D422) FIGURE



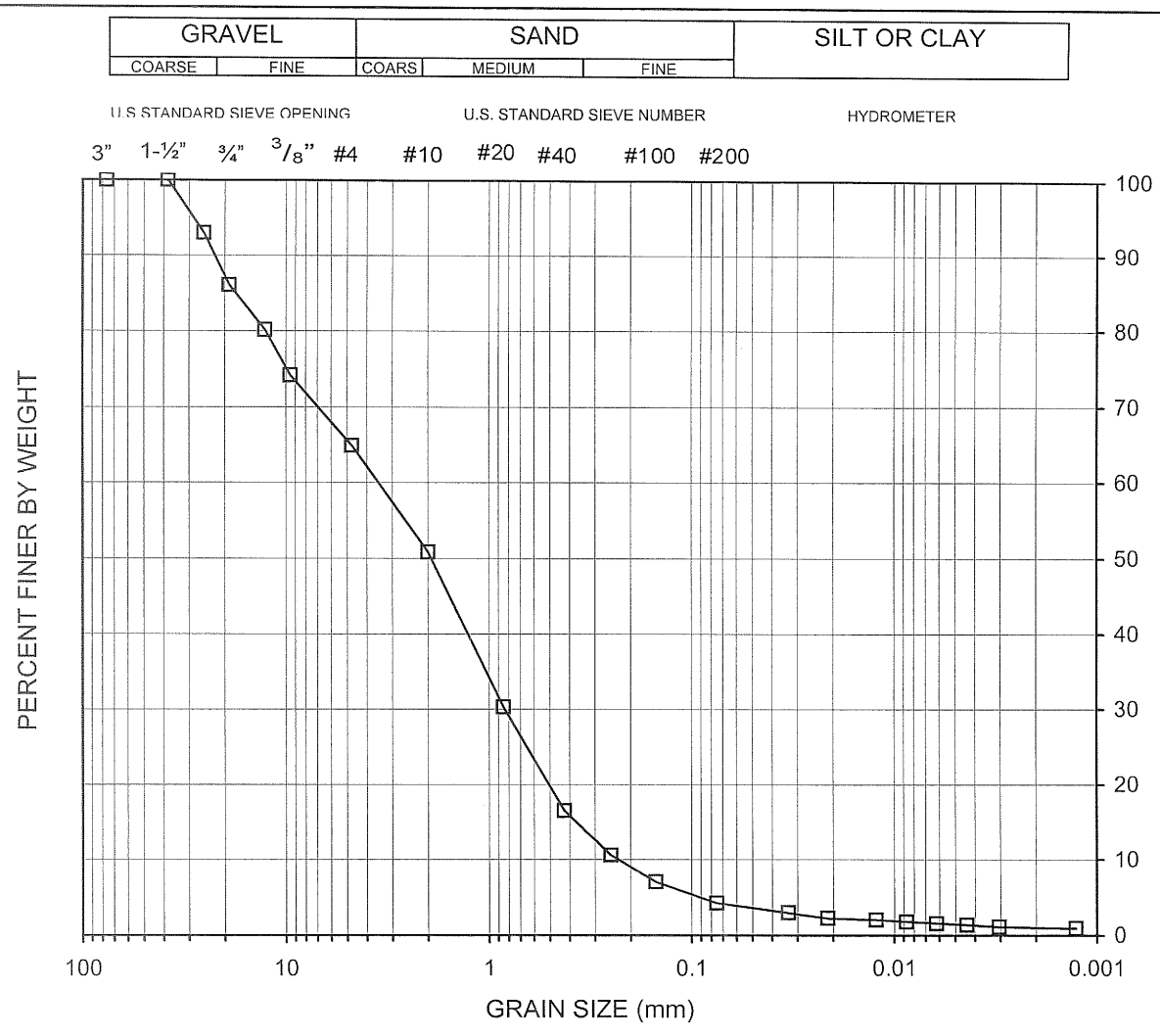
SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	AOC 1-1-136	136.0	Ring	SM	N/A	N/A

EGLAB, INC.

Project Name: Burbank Operable Unit
Client: Tetra Tech, Inc.
Job No.: 100-SBO-T32955.TM-B1.04
EGLAB Project No.: 14-004-003

GRAINSIZE DISTRIBUTION CURVE

10/08/14 (ASTM D422) FIGURE



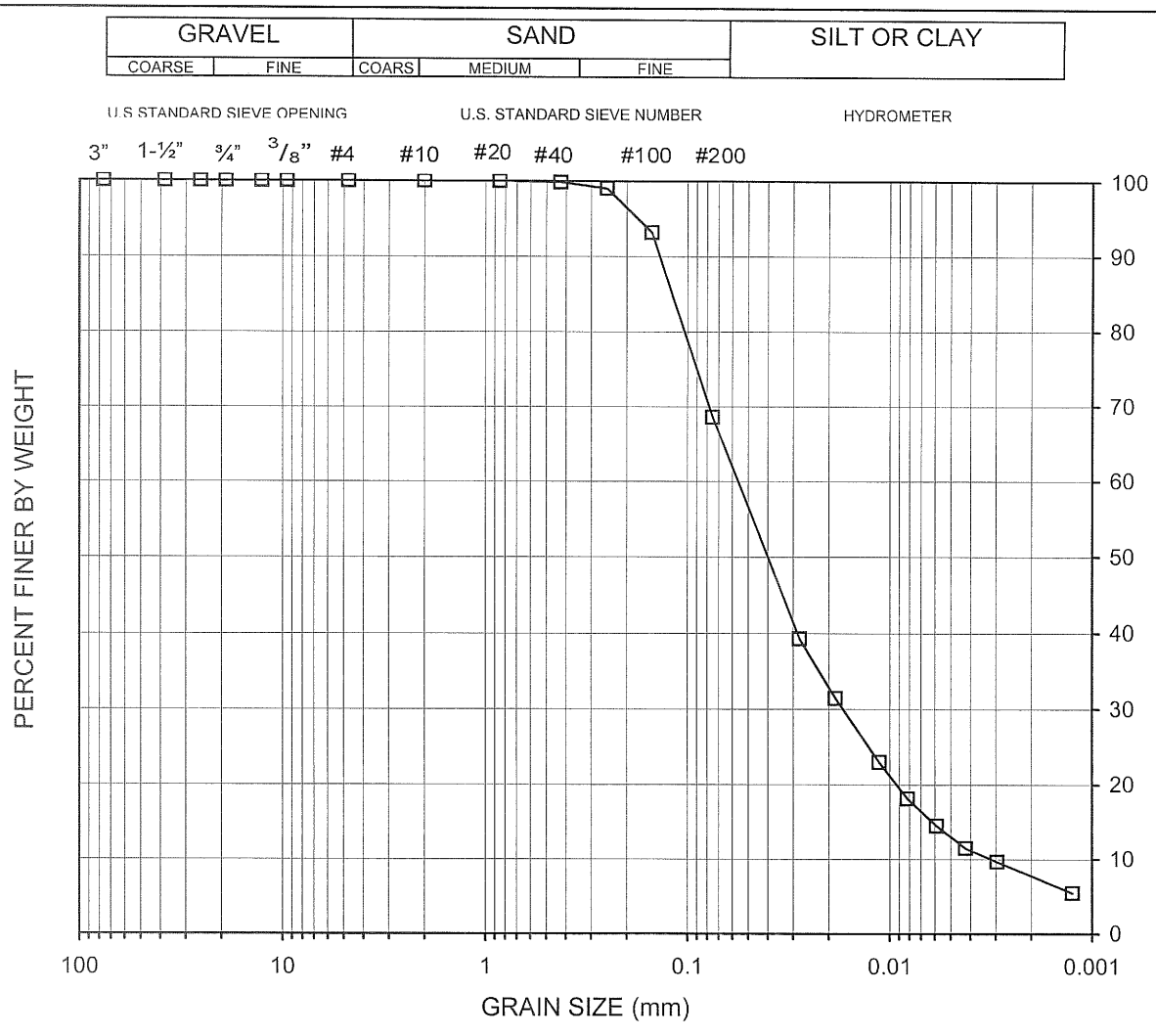
SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	AOC 2-1-61	61.0	Ring	SW	N/A	N/A

EGLAB, INC.

Project Name: Burbank Operable Unit
Client: Tetra Tech, Inc.
Job No.: 100-SBO-T32955.TM-B1.04
EGLAB Project No.: 14-004-003

GRAINSIZE DISTRIBUTION CURVE

10/08/14 (ASTM D422) FIGURE



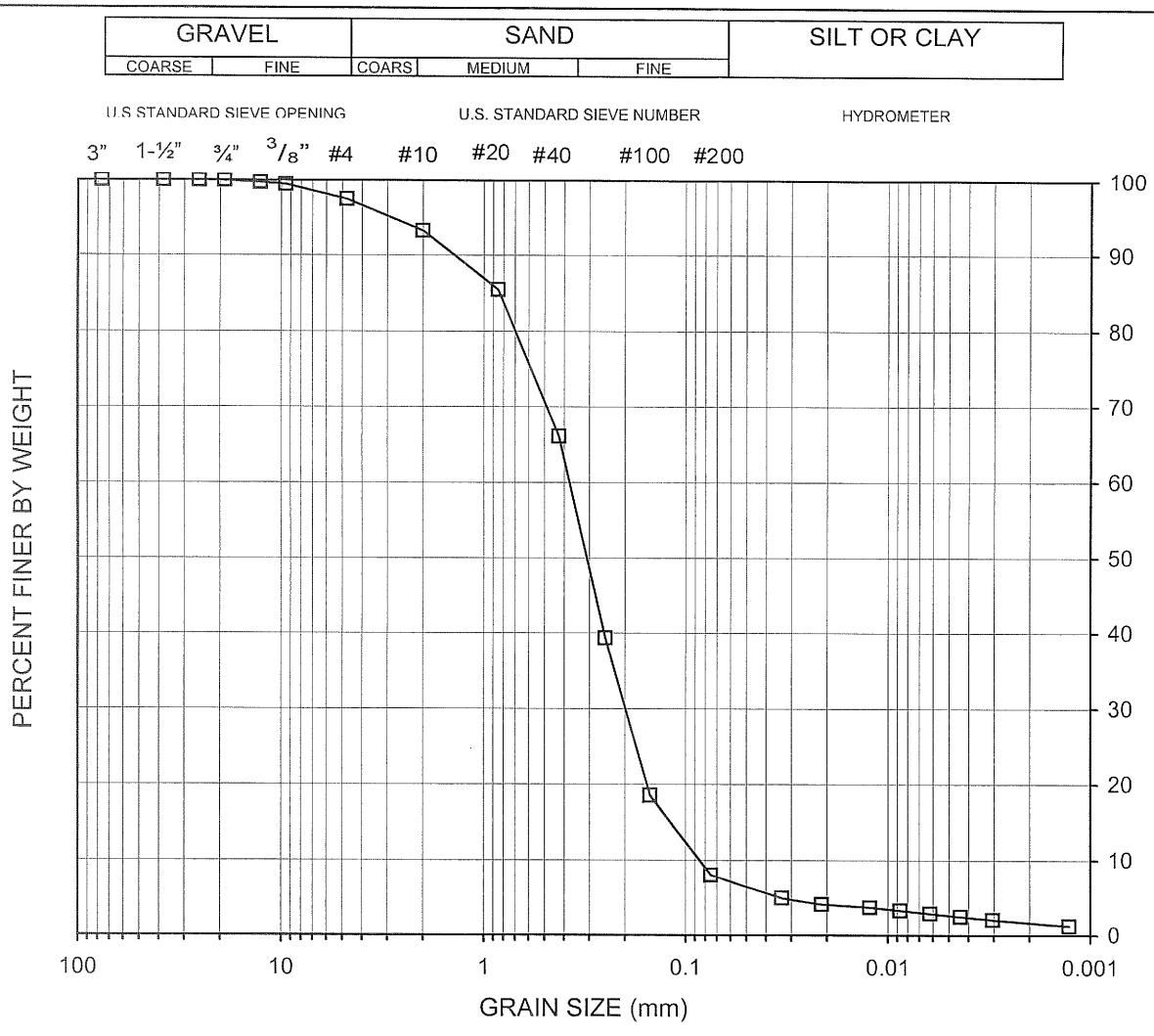
SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	AOC 3-1-56	56.0	Ring	ML	N/A	N/A

EGLAB, INC.

Project Name: Burbank Operable Unit
Client: Tetra Tech, Inc.
Job No.: 100-SBO-T32955.TM-B1.04
EGLAB Project No.: 14-004-003

GRAINSIZE DISTRIBUTION CURVE

10/08/14 (ASTM D422) FIGURE



SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	AOC 5-1-41	41.0	Ring	SP-SM	N/A	N/A

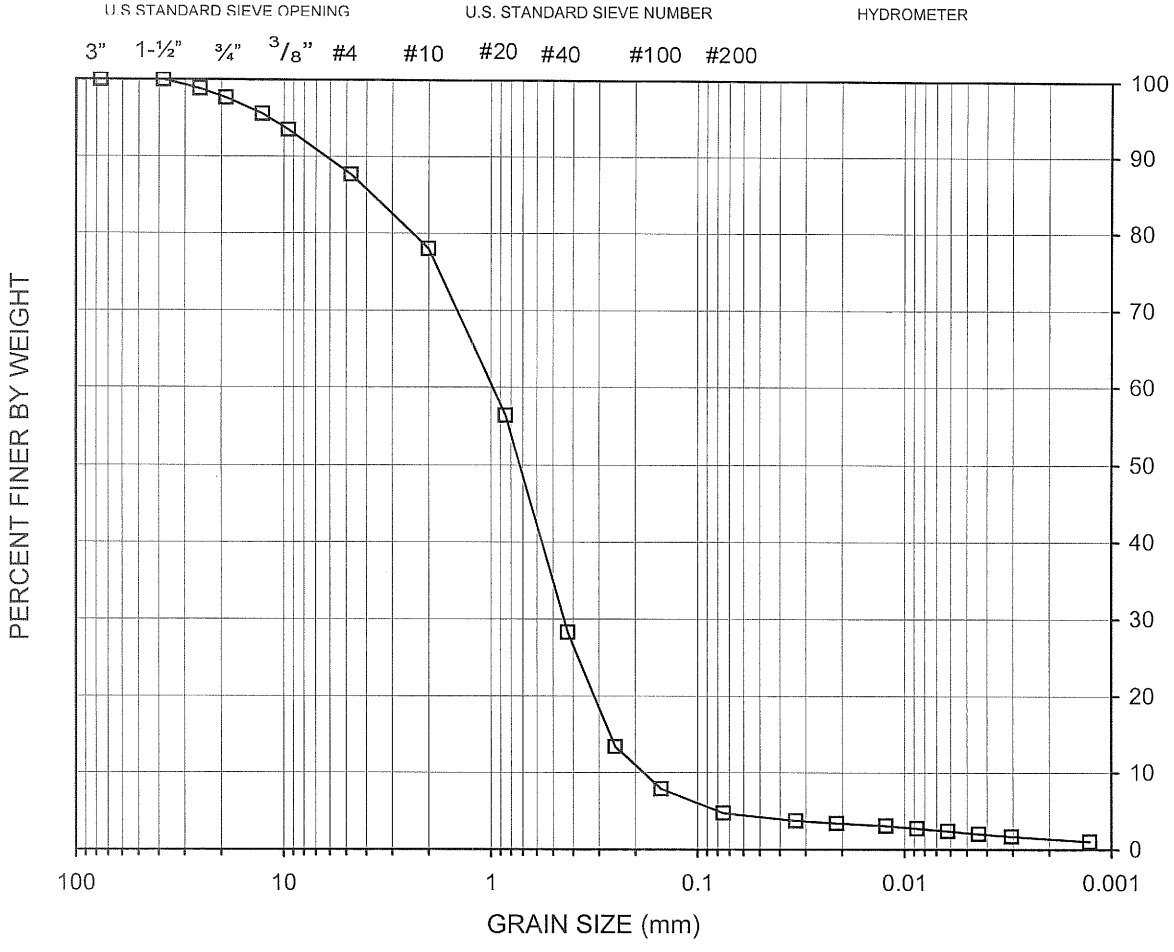
EGLAB, INC.

Project Name: Burbank Operable Unit
Client: Tetra Tech, Inc.
Job No.: 100-SBO-T32955.TM-B1.04
EGLAB Project No.: 14-004-003

GRAINSIZE DISTRIBUTION CURVE

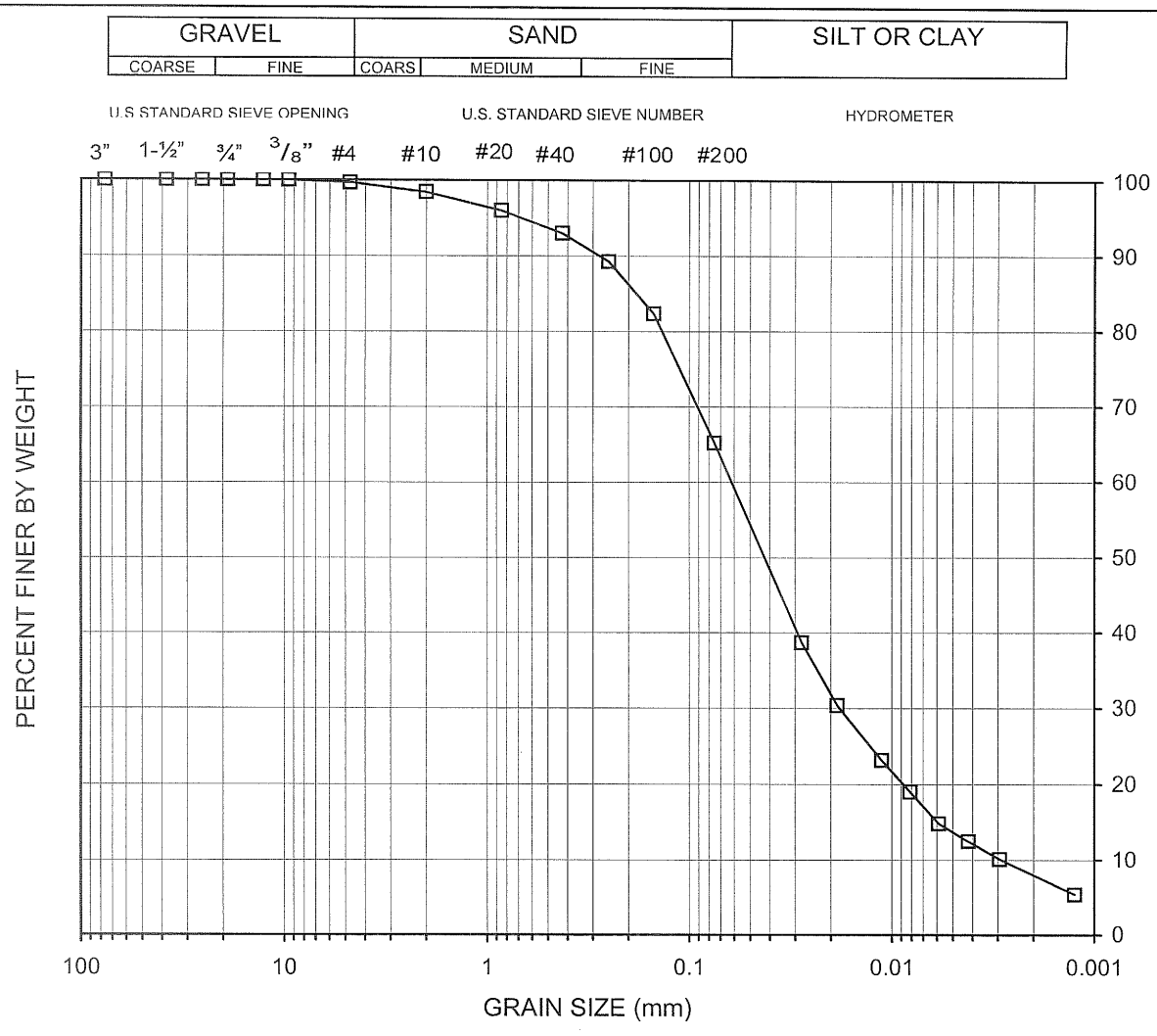
10/08/14 (ASTM D422) FIGURE

GRAVEL		SAND			SILT OR CLAY
COARSE	FINE	COARS	MEDIUM	FINE	



SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	AOC 7-1-75.5	75.5	Ring	SP	N/A	N/A

EGLAB, INC.	Project Name: Burbank Operable Unit Client: Tetra Tech, Inc. Job No.: 100-SBO-T32955.TM-B1.04 EGLAB Project No.: 14-004-003
10/08/14	**GRAINSIZE DISTRIBUTION CURVE** (ASTM D422) FIGURE



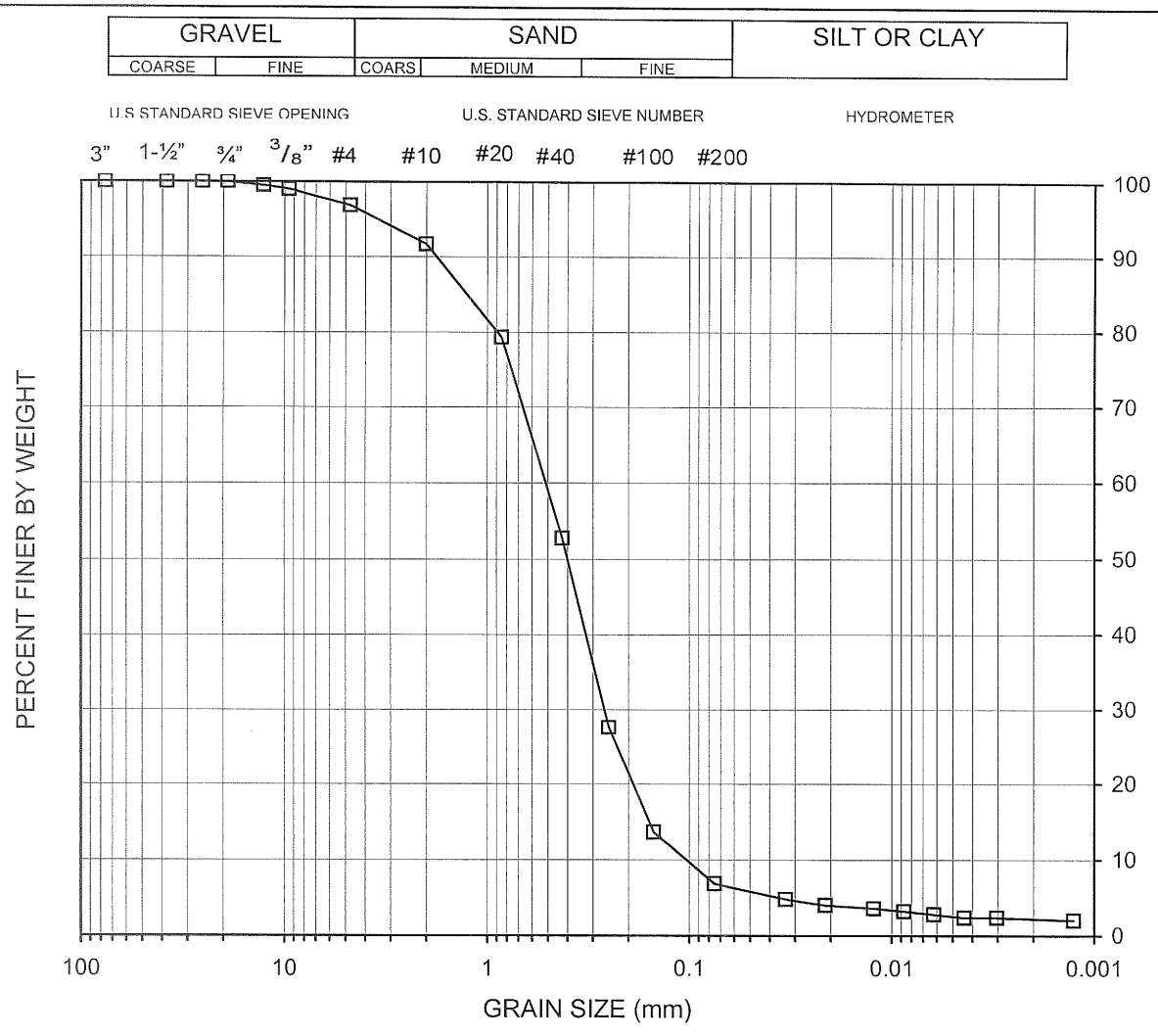
SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	AOC 7-2-125	125.0	Ring	ML	N/A	N/A

EGLAB, INC.

Project Name: Burbank Operable Unit
Client: Tetra Tech, Inc.
Job No.: 100-SBO-T32955.TM-B1.04
EGLAB Project No.: 14-004-003

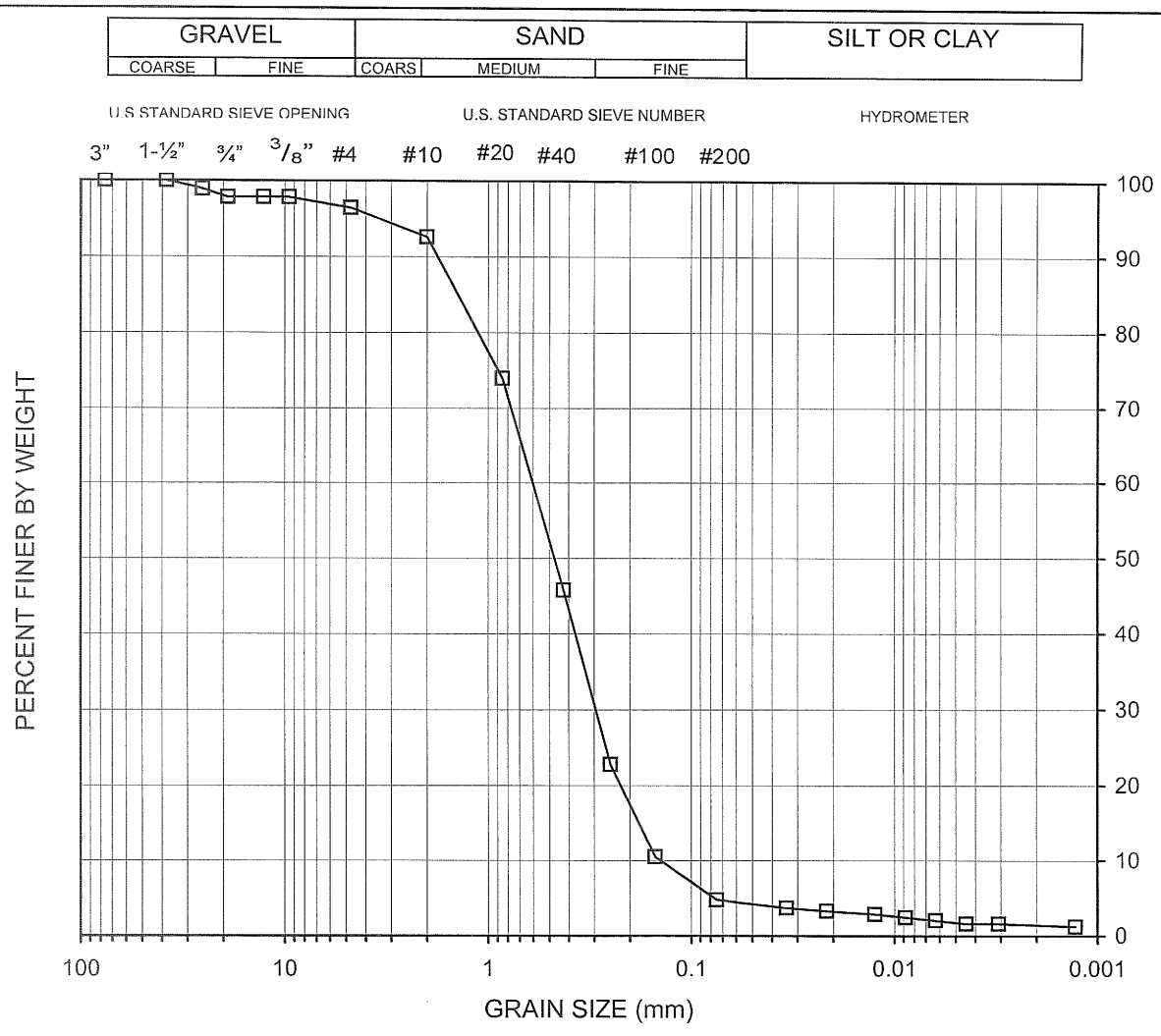
GRAINSIZE DISTRIBUTION CURVE

10/08/14 (ASTM D422) FIGURE



SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	AOC 11-1-30	30.0	Ring	SP-SM	N/A	N/A

EGLAB, INC.	Project Name: Burbank Operable Unit Client: Tetra Tech, Inc. Job No.: 100-SBO-T32955.TM-B1.04 EGLAB Project No.: 14-004-003
10/08/14	**GRAINSIZE DISTRIBUTION CURVE** (ASTM D422) FIGURE



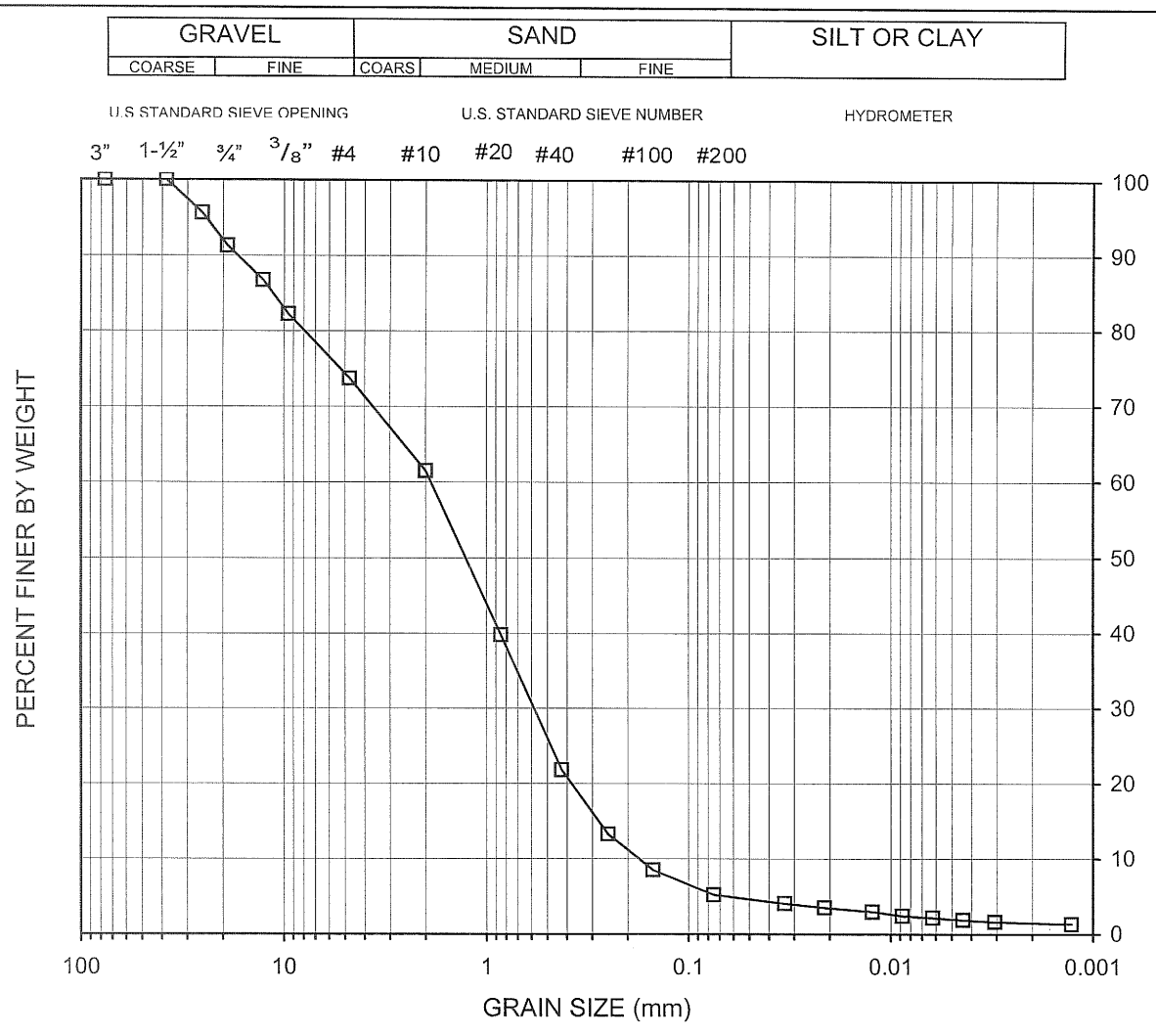
SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	AOC 13-2-66.5	66.5	Ring	SP	N/A	N/A

EGLAB, INC.

Project Name: Burbank Operable Unit
Client: Tetra Tech, Inc.
Job No.: 100-SBO-T32955.TM-MP.04
EGLAB Project No.: 14-004-003

GRAINSIZE DISTRIBUTION CURVE

10/08/14 (ASTM D422) FIGURE



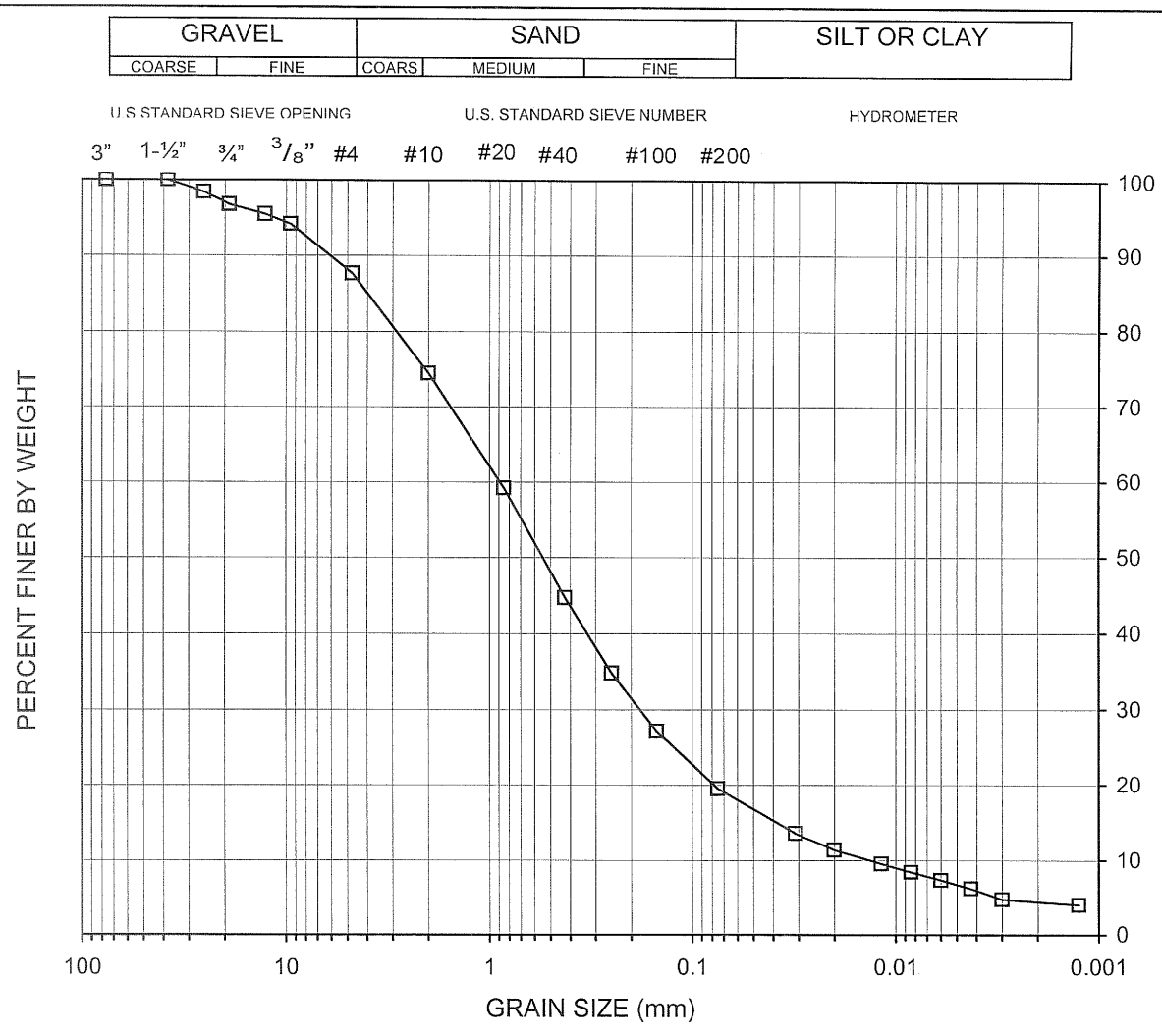
SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	AOC 14-1-75	75.0	Ring	SW-SM	N/A	N/A

EGLAB, INC.

Project Name: Burbank Operable Unit
Client: Tetra Tech, Inc.
Job No.: 100-SBO-T32955.TM-MP.04
EGLAB Project No.: 14-004-003

GRAINSIZE DISTRIBUTION CURVE

10/08/14 (ASTM D422) FIGURE



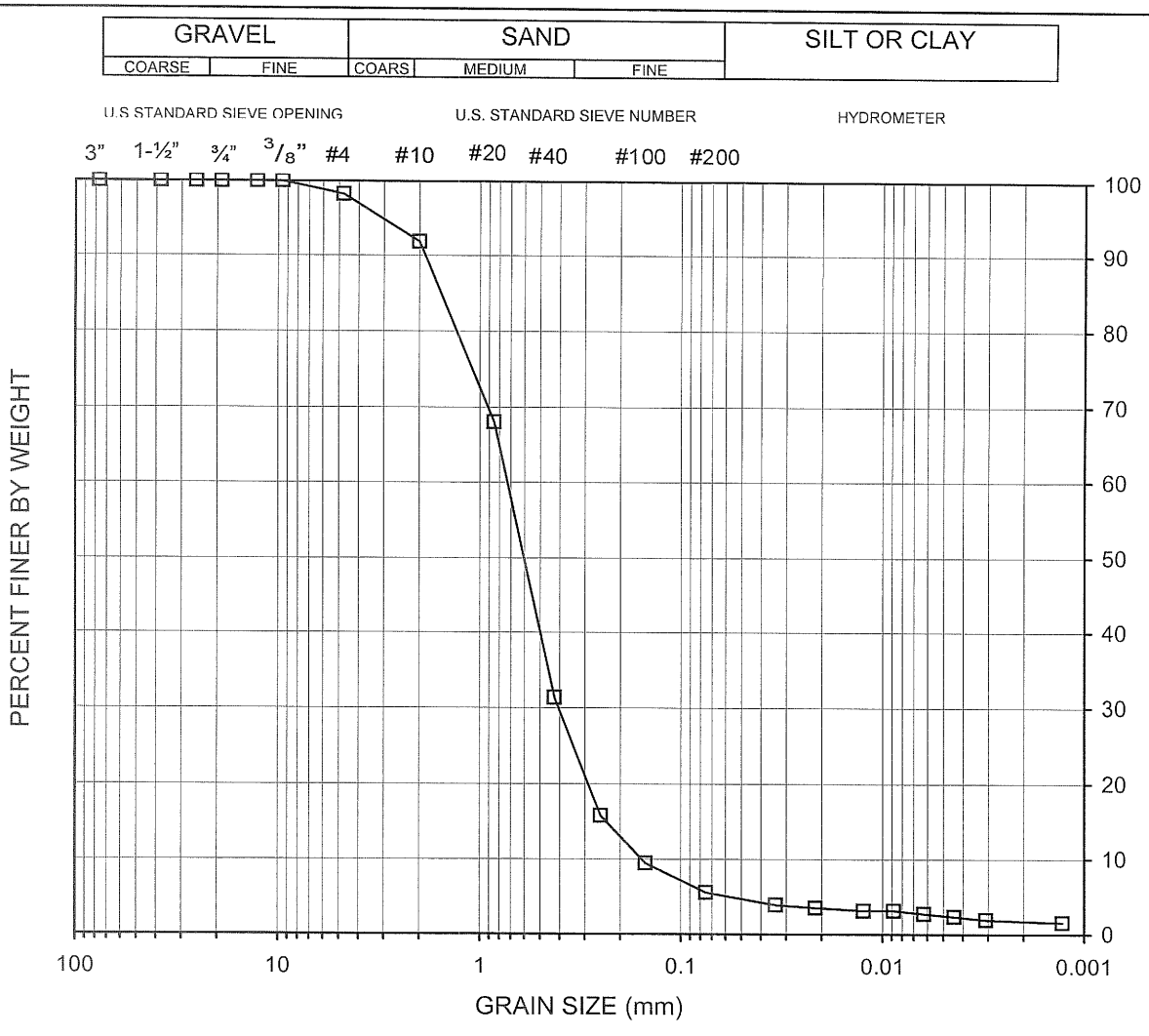
SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	AOC 17-1-101	101.0	Ring	SM	N/A	N/A

EGLAB, INC.

Project Name: Burbank Operable Unit
Client: Tetra Tech, Inc.
Job No.: 100-SBO-T32955.TM-MP.04
EGLAB Project No.: 14-004-003

GRAINSIZE DISTRIBUTION CURVE

10/08/14 (ASTM D422) FIGURE



SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	AOC 20-2-25	25.0	Ring	SP-SM	N/A	N/A

EGLAB, INC.

Project Name: Burbank Operable Unit
Client: Tetra Tech, Inc.
Job No.: 100-SBO-T32955.TM-MP.04
EGLAB Project No.: 14-004-003

GRAINSIZE DISTRIBUTION CURVE

10/08/14 (ASTM D422) FIGURE

Appendix H
Data Validation Memorandum

Additional Site Investigation Report

Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1

Burbank, California

TETRA TECH, INC.
DATA VALIDATION MEMORANDUM

TO: **Michael Weinberger, Project Manager**

FROM: **Michael Wilson, Senior Chemist**

DATE: **November 19, 2014**

SUBJECT: **One Hundred Percent Data Validation Review for the Burbank Operational Unit (BOU) Soil Chromium Sample Analyses Data Results from American Environmental Testing Laboratory (AETL) in Burbank, CA.**

Introduction

This report summarizes the findings from data validation efforts conducted on one hundred percent of the sample data results for Lockheed Martin Corporation's (LMC) BOU soil project. The validation guidance used in evaluating the data is presented in the current versions of *USEPA National Functional Guidelines for Inorganic Data Review* and *USEPA National Functional Guidelines for Organic Data Review*. The data were audited at a Level II effort. The Level II effort requires review of all applicable Quality Control (QC) sample results as it relates to the field data under review. Level II effort also determines the usability of the data based on the Data Quality Objectives (DQOs) for the project.

Executive Summary

The AETL data for the project were contained in multiple numbered Sample Delivery Groups (SDGs).

The total data set consisted of 766 individual (per analyte) results from environmental samples analyses. The number of samples per analytical method (or method group) is given below.

1. Three hundred eighty three samples for Hexavalent Chromium by Method SW7199
2. Three hundred eighty three samples for Total Chromium by Method SW6020A

The samples were logged into the lab under compliant Chain of Custody documentation with no exceptions noted. The samples were analyzed in one or two preparation batch per analytical method per SDG. All QC samples were reviewed and if the QC result caused the data to be qualified the reason for the qualification was identified.

The data showed the laboratory analyzed all samples in accordance with method guidelines. The instances where qualification was required are listed below and explained under individual method sections. All other data is of known precision and accuracy and did not require any qualification and can be used as stated.

All data for this BOU sampling event were usable for their intended purpose.

Evaluation Criteria

The data were evaluated by results from the following Quality Control (QC) entities.

- Method/Field Blanks
- Laboratory Control Samples
- Holding Times
- Surrogate Recovery (Organic Methods)
- Spiked and Field Duplicate Compliance
- Calibration Compliance
- Compound Identification
- Analytical Method Compliance

Chain-of-Custody (COC) forms were reviewed and no unresolved discrepancies were noted.

Evaluation of Accuracy, Precision, Representativeness, Comparability, and Completeness

1. Accuracy is established by reviewing spiked sample analysis. A blank spike (LCS) measures the accuracy of the instrument and the LCS results for this data set were all found to be within control limits. Therefore, accuracy for the BOU project meets the Data Quality Objectives (DQO).

2. Precision is established by calculating the RPD values for MS/MSD pairs and field duplicates. The RPD values calculated for the BOU project show that >95% of the RPD calculated were within control limits. Therefore, the precision for the BOU projects meets the DQO.

3. Representativeness is established by using standard field sampling techniques. Because the field sampling was conducted under approved work plans and by following an established SOP, the sampling is judge to have adequate representativeness. The DQO was met.

4. Comparability of the data is preserved if the analytical analyses are conducted under approved and vetted EPA analytical methods. Because the EPA methods are constructed with comparability built into the methods. By using approved analytical methods for the BOU project, the BOU data is comparable. The DQO was met.

5. Completeness is measured by determine the amount of valid data produced by the laboratory as compared to the total possible data from the chain. This data set had no rejected data and all samples were analyzed as per the chains. Therefore, the data completeness is 100% which is above the 90% criterion. The DQO was met.

Validation Qualifiers and Comment Descriptors Definitions

Validation Qualifiers

B: The sample result is less than 5 times (10 times for common organic laboratory contaminants) the blank contamination. The result qualified for blank contamination is considered not to have originated from the environmental sample, since cross-contamination is suspected.

J: The analyte was positively identified, but the analyte concentration is an estimated value.

R: The sample result is rejected and not usable for any purpose. The presence or absence of the analyte cannot be verified.

U: The analyte was analyzed for, but was not detected above the MDL.

UJ: The analyte was not detected above the MDL. However, the MDL may be elevated above the reported detection limits

Qualifier Descriptor Comments

a: The analyte was found in the method blank.

b: The surrogate spike recovery was outside control limits.

c: The Matrix Spike and/or Matrix Spike Duplicate recoveries were outside control limits.

d: The Laboratory Control Sample (LCS) recovery was outside control limits.

e: A holding time violation occurred.

f: The duplicate samples Relative Percent Difference (RPD) was outside the control limit.

g: The datum met prescribed method criteria.

h: The method requires a confirmation result, but none was performed.

k: The analyte was found in a field blank.

l: The second column confirmation result indicates the analyte was not confirmed.

p: The result was qualified based on professional judgment.

q: The analyte detection was below the Practical Quantitation Limit (PQL).

r: The result is above the instrument's calibration range.

t: The sample temperature was outside acceptance criteria.

n: The laboratory case narrative indicated a QC problem.

1.0 Hexavalent Chromium by Method SW7199

1.1 Method/Field Blanks

The method blanks and field blanks reported no detections of target analytes above the detection limit. One method blank was extracted for each preparation batch. The method blanks were compliant with the analytical method.

1.2 Laboratory Control Samples

The laboratory control sample (LCS) analysis showed the method required spiked analytes were recovered within control limits. One LCS was extracted for each preparation batch. The LCSs were compliant with the analytical method.

1.3 Holding Times

All extraction and analysis holding times were in compliance.

1.4 Surrogate Recovery

Surrogates do not apply to method SW7199

1.5 Spiked and Field Duplicate Compliance

The matrix spike/matrix spike duplicate analyses and field duplicates were performed and found there were several out of compliance with the recovery and RPD control limits. Therefore, 1.4 percent of the total metals data associated with the matrix spikes/field duplicate were qualified as estimated. The estimated data are usable for the intended purpose.

1.6 Calibration Compliance

The calibration of the analytical instrument met criteria.

1.7 Compound Identification

All reported compound detections were identified by the correct retention time.

1.8 Analytical Method Compliance/Description

The Level II data review showed the data to be method compliant. The method is summarized below.

All soil samples were homogenized, and alkaline digested in accordance with EPA SW 3060A method, the digested samples were analyzed in accordance with EPA SW 7199 method.

1.9 Conclusions

Based on the results of this Level II Data Validation effort, it is concluded that the data for method SW7199 are usable as reported and qualified. The target analyte identifications are considered correct and reliable. The DQOs were satisfied as per the Work Plan and the data is usable for its intended purpose.

2.0 Total Chromium by Method SW6020A

2.1 Method/Field Blanks

The method blanks and field blanks reported no detection of a target analyte. One method blank was extracted for each preparation batch.

2.2 Laboratory Control Samples

The laboratory control sample (LCS) analysis showed the method required spiked analytes were recovered within control limits. One LCS was extracted for each preparation batch. The LCSs were compliant with the analytical method.

2.3 Holding Times

All extraction and analysis holding times were met.

2.4 Surrogate Recovery

This method does not use surrogates.

2.5 Spiked and Field Duplicate Compliance

The matrix spike/matrix spike duplicate analyses and field duplicates were performed and found there were several out of compliance with the recovery and RPD control limits. Therefore, 5.4 percent of the total metals data associated with the matrix spikes/field duplicate were qualified as estimated. The estimated data are usable for the intended purpose.

2.6 Calibration Compliance

The calibration of the analytical instrument met criteria.

2.7 Compound Identification

All extraction and analysis holding times were met.

2.8 Analytical Method Compliance/Description

The Level II data review showed the data to be method compliant. The method is described below.

All soil samples were homogenized, and acid digested in accordance with EPA SW 3050B method, the digested samples were analyzed by Inductively Coupled Plasma Mass Spectrometry (ICP-MS) in accordance with EPA SW 6020A method.

2.9 Conclusions

Based on the results of this Level II Data Validation effort, it is concluded that the data for method SW6020A are usable as reported and qualified. The target analyte identifications are considered correct and reliable The DQOs were satisfied as per the Work Plan and the data is usable for its intended purpose.

Appendix I
Historical Information of Areas of Concern

Additional Site Investigation Report

Former Lockheed Martin Plants A-1 North, B-1, B-6, and C-1

Burbank, California

Section 1
HISTORICAL INFORMATION OF AREAS OF CONCERN

This section provides a summary of the historical use and previous investigations for the specified features at each area of concern (AOC) that were investigated as required by California Water Code Section 13267 Order No. R4-2013-0063 (the Order).

The Order identified 20 AOCs where additional investigations for chromium and/or volatile organic compounds (VOCs) were requested. However, the investigation of AOC 10 was held in abeyance, and will not be described herein. The remaining AOCs are located within three of Lockheed Martin Corporation's (Lockheed Martin's) former plants (B-1, B-6, and C-1). For ease of reference, each AOC has been assigned a number corresponding to the sequence in which they were presented in the Order. Only investigations and analytical data pertaining to the physical features and chemical compounds specified by the Regional Water Quality Control Board (Regional Board) in the Order or in the Regional Board's subsequent comments are discussed in the following sections.

1.1 AOC 1 – PLANT B-1 SEEPAGE PIT DW-1

Seepage Pit DW-1 was located north of the current Hometown Buffet restaurant building within the Burbank Empire Center shopping district, south of Empire Avenue. The location of the feature is currently overlain by a landscaped area. The location will be developed in early 2015 as part of the Empire Avenue Underpass project.

The Regional Board Order required the delineation of hexavalent chromium at this feature.

1.1.1 Historical Use

DW-1 was located west of former Building 110 within the Plant B-1 complex. Operations conducted inside of Building 110 included fabrication of dies and punches, heat treatment of sheet metal and other machined aluminum parts, and degreasing of machined metal parts. There is no reported usage of chromium in Building 110.

Based on the recollections of Lockheed Martin personnel, DW-1 was located 20 feet east of a guard shack and 12 feet south of Empire Avenue. DW-1 was reportedly used to infiltrate cooling water from an air conditioner. The source of the water was a supply well in Building 154. DW-1 was approximately 30- to 40-feet deep (the diameter is unknown) and was abandoned in the mid-1960s by filling the well with cement. The well was reported to be dry at the time of abandonment (McLaren Hart, 1991a). There is no reported use of DW-1 as a discharge point for chromium.

1.1.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for chemicals of concern (COCs) at AOC 1 and maps showing boring locations. The nearby boring was located by land survey. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points. The site of DW-1 was located in the field using the description provided in the Environmental Assessment (McLaren Hart, 1991c).

Tetra Tech, 1993b*: Final Report for Lockheed Plant B-1 Subsurface Soil Investigation:* Historical boring B110-SB1 was advanced adjacent to the reported location of DW-1 to a depth of 80.5 feet bgs. Samples from this boring were analyzed for total chromium, with concentrations from below the total depth of the seepage pit ranging from 5.0 to 80 milligrams per kilogram (mg/kg). The highest total chromium concentration (80 mg/kg) was found at a depth of 72 feet bgs; the underlying soil sample at 80 feet bgs had a total chromium concentration of 16 mg/kg. The soil samples were not analyzed for hexavalent chromium.

1.2 AOC 2 – PLANT B-1 DRY WELLS DW-2 AND DW-2A

Dry Wells DW-2 and DW-2A were located immediately south of the current Outback Steakhouse restaurant within the Burbank Empire Center shopping district. The locations of the former dry wells are currently overlain by an asphalt-paved private road within the parking lot for the Empire Center.

The Regional Board Order initially only required delineation of hexavalent chromium at these features; however, their September 2013 comments on the draft work plan added VOCs to the list of analytes to be delineated at AOC 2.

1.2.1 Historical Use

1.2.1.1 DW-2

DW-2 was located in Building 111 (between former Buildings 112 and 147) within the Plant B-1 complex. The building was built in 1937 and used for chemical processing (including anodizing, which may involve the use of chromic acid), subassembly, and tool making. During redevelopment of the former Building 111 area in 2001, DW-2 was identified in the southeastern portion of the building. The top of the dry well was located approximately 9 feet below the existing surface grade and the well was approximately 15 feet in length (and therefore extended to 24 feet bgs). The dry well was observed to have a concrete cap with an 8-inch access port. DW-2 was 4 feet in diameter and lined with brick. The material inside DW-2 was sampled and found to have elevated concentrations of chromium and hexavalent chromium. The historical use of DW-2 is unknown.

1.2.1.2 DW-2A

DW-2A was located in Building 111 as well. DW-2A was encountered during demolition activities in 1993. This feature was originally designated DW-1 by Tetra Tech in a prior metals assessment; the feature will be designated DW-2A hereafter to avoid confusion with AOC 1, which was designated DW-1 by the Regional Board. DW-2A was a 4-foot-diameter brick and cinderblock subsurface structure that extended to approximately 20 feet below the original grade. The historical use of DW-2A is unknown. The interior of the structure was observed to be coated from top to bottom with sludge. The sludge was sampled and found to contain elevated levels of chromium and hexavalent chromium.

1.2.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 2 and maps showing boring, sample, and remedial excavation locations. All soil boring and sample locations were located by land survey and/or from the

investigation maps. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

1.2.2.1 DW-2

Tetra Tech, 1993b: *Final Report for Lockheed Plant B-1 Subsurface Soil Investigation*
Several historical borings were advanced in the general vicinity of DW-2 and DW-2A to depths up to 150 feet bgs. Samples from these borings were analyzed for VOCs, with concentrations of PCE up to 40,000,000 micrograms per kilogram (µg/kg) and concentrations of TCE up to 2,500,000 µg/kg.

Tetra Tech, 1994b: *Remediation/Delineation Report, Foundation and Infrastructure Demolition Monitoring, Lockheed Plant B-1: Burbank, California*
During the demolition of Building 111, approximately 10 feet (maximum) of soil was removed from the vicinity of the dry well due to elevated concentrations of metals and soil staining. The resulting excavation was backfilled with clean, imported fill.

Tetra Tech, 1999: *Plant B-1 Soil Gas Survey*
In 1999, two nested soil-gas probes were installed in the general vicinity of DW-2 and DW-2A and sampled: B1-SG44 and B1-SG53 at depths of 5, 10, and 40 feet. The PCE concentrations ranged from non-detect (ND; less than 1 µg/L) to 2.0 µg/L, and TCE was not detected.

Earth Tech, 2001: *Request for Closure of Former Drywell, Former Lockheed Martin Plant B-1*
A boring (B111-DW1) was drilled approximately 7 feet from the center of DW-2 to a depth of 145 feet bgs. Soil samples were collected at 10-foot intervals for analysis of metals and hexavalent chromium. Slightly elevated total chromium concentrations (23 to 55 mg/kg) were detected at depths 30 to 50 feet bgs; and total chromium concentrations from 60 to 140 feet bgs ranged from 4 to 15 mg/kg. Hexavalent chromium was not detected in any of the soil samples (i.e., less than 4 mg/kg). The dry well and adjacent soil were then removed to a depth of 36 feet bgs using a 5-foot-diameter auger with extensions (which creates an 8-foot-diameter drill hole) to remove elevated levels of cadmium. The resulting excavation was filled with cement slurry to 7 feet bgs and then overlain by native soil.

During the remedial excavation, elevated cadmium and total chromium concentrations were encountered in the sidewall and bottom of the excavation. Therefore, four additional borings

(DW-B2 through DW-B5) were drilled at distances of 4.5 to 12 feet from the center of former DW-2 to depths of 80 feet bgs. Total chromium concentrations in these borings ranged from 5 to 540 mg/kg; hexavalent chromium was not detected (i.e., less than 4 mg/kg).

Based on the analytical results from DW-B2 through DW-B5, a second removal action was implemented. A large-diameter auger drill rig was used to drill 19 5-foot-diameter vertical excavations to depths of 45 feet to remove contaminated soil outside of the original excavation. During the course of the excavations, numerous sidewall and bottom confirmation samples (DW-H1 through DW-H19) were collected and analyzed for Title 22 metals and hexavalent chromium. Detected total chromium concentrations ranged from 4 to 55 mg/kg. Hexavalent chromium was not detected in the soil samples (i.e., less than 4 mg/kg).

1.2.2.2 DW-2A

Tetra Tech, 1993b: *Final Report for Lockheed Plant B-1 Subsurface Soil Investigation*
Several historical borings were advanced in the general vicinity of DW-2 and DW-2A to depths up to 150 feet bgs. Samples from these borings were analyzed for VOCs, with concentrations of PCE up to 40,000,000 µg/kg and concentrations of TCE up to 2,500,000 µg/kg.

Tetra Tech, 1994c: *Final Report, Foundation and Infrastructure Demolition Monitoring, Lockheed Plant B-1, Burbank, California*
During the demolition of Building 111, approximately 10 feet (maximum) of soil was removed from the vicinity of the dry well due to elevated concentrations of metals and soil staining. The resulting excavation was backfilled with clean, imported fill.

ICF Kaiser Engineers, 1994a: *Building 111 Site-Specific Soils Investigation Report, Volumes I and II, Plant B-1*
Four borings (B111-CR01 through B111-CR04) were drilled within a 20-foot radius of the dry well to assess surrounding soil. Soil samples were (generally) collected at 10-foot intervals to 50 feet, and 20-foot intervals thereafter to a total depth ranging from 141 to 143 feet. Groundwater was encountered at 141 feet. These samples were analyzed for Title 22 metals and hexavalent chromium. Detected total chromium concentrations ranged from 2.9 to 98.8 mg/kg. Hexavalent chromium was not detected in the soil samples (i.e., generally less than 1.2 mg/kg). Based on the results of the investigation, DW-2A was backfilled with cement slurry, and the Regional Board indicated that no additional chromium investigation was required.

A.E. Schmidt Environmental, 1994: *Lockheed Plant B-1 Seepage Pit Removal Report*

DW-2A was subsequently removed due to elevated concentrations of cadmium, chromium, copper, lead, and zinc that were detected in sludge found inside the well. The well was removed using a drilling rig equipped with a 6-foot-diameter auger; all slurry, cinder block, sludge, and adjacent soil were removed to a depth of 38 feet bgs. Confirmation samples B111-SP-20, B111-SP-25, and B111-SP-30 were collected from the sidewalls of the excavation, and B111-SP-38 was collected from the bottom of the excavation. Detected total chromium concentrations ranged from 38 to 430 mg/kg. The soil samples were not analyzed for hexavalent chromium.

A.E. Schmidt Environmental, 1996: *TPH/Metals Site Investigation and Remedial Action Workplan*

A fifth boring (SB111-SP) was drilled adjacent to the excavation in order to assess if sufficient cadmium-impacted soil remained in place to warrant further action. Total chromium was also analyzed in the soil samples (collected from 20 to 40 feet bgs). Detected total chromium concentrations ranged from 24 to 62 mg/kg. Detected hexavalent chromium concentrations ranged from ND (less than 0.1 mg/kg) to 0.51 mg/kg.

1.3 AOC 3 – PLANT B-1 SEEPAGE PIT DW-3

Former seepage pit DW-3 is in the area of the commercial buildings consisting of Catherine's Plus Sizes, a dental office, and Payless Shoes within the Burbank Empire Center shopping district, and is currently overlain by concrete sidewalk.

The Regional Board Order required the delineation of hexavalent chromium at this feature.

1.3.1 Historical Use

DW-3 was located within former Building 1A, which was used for office space, video production (for marketing), and paper storage. DW-3 was described as a sewer seepage pit (Tetra Tech, 1994c). DW-3 was noted as being a 4.5-foot diameter seepage pit extending to a depth of 10 feet bgs. There is no reported use of chromium in Building 1A nor of chromium discharged to DW-3.

1.3.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 3 and maps showing soil boring and remedial excavation locations. The nearby borings and samples were located by land survey and/or from the investigation maps. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

A.E. Schmidt Environmental, 1994: *Lockheed Plant B-1 Seepage Pit Removal Report*
DW-3 was removed in 1994 using a drilling rig equipped with a 6-foot-diameter auger due to elevated levels of mercury. All slurry, cinder block, sludge, and adjacent soil were removed to a depth of 14 feet bgs. No stained or discolored soil was observed. Confirmation samples D1-SP-7 and D1-SP-10 were collected from the sidewalls of the excavation, and DI-SP-15 was collected from the bottom of the excavation. Detected total chromium concentrations ranged from 8.1 to 11 mg/kg. The soil samples were not analyzed for hexavalent chromium.

1.4 AOC 4 – PLANT B-1 SEEPAGE PIT DW-4

Seepage Pit DW-4 is located west of the current Costco building, immediately east of residential houses. The location of the feature is overlain by an asphalt parking lot.

The Regional Board Order required the delineation of hexavalent chromium and VOCs at this feature.

1.4.1 Historical Use

DW-4 was located immediately west of the northwest corner of former Building 199 within the Plant B-1 complex. Building 199 was used for cutting of raw stock; storage; office space; and bonding, cutting, shaping, and lamination of composite products. Seepage Pit DW-4 was used to dispose of overflow water from an adjacent evaporative cooler. The depth, diameter, and abandonment status of seepage pit DW-4 are unknown. There was a cooling tower nearby, next to historical boring HA-4 (Figures 14 and 15). There is no reported usage of chromium in Building 199, but VOCs were used in the building. There is no reported use of DW-4 as a discharge point for chromium.

1.4.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 4 and maps showing soil boring locations. The nearby borings and samples were located using the investigation maps. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

McLaren Hart, 1991a: *Soil Investigation Results of Rounds 1 through 5, Lockheed Plant B-1, Building 199, Burbank, California*

Boring SB-39 was completed next to the seepage pit to evaluate potential chemical releases to soil. Soil samples were collected to a depth of 40 feet bgs and analyzed for metals (including total chromium) and VOCs; the soil samples were not analyzed for hexavalent chromium. Detected total chromium concentrations ranged from 2.1 to 15 mg/kg. Detected PCE concentrations ranged from ND (less than 1 µg/kg) to 0.8 µg/kg, and detected TCE concentrations ranged from ND (less than 1 µg/kg) to 1 µg/kg. It is not known whether the seepage pit was removed.

1.5 AOC 5 – PLANT B-1 SEEPAGE PIT DW-5

Seepage pit DW-5 is located under the northern portion of the Deluxe Digital Studios office building.

The Regional Board Order required the delineation of hexavalent chromium and VOCs at this feature.

1.5.1 Historical Use

DW-5 was located in the southern portion of former Building 175 within the Plant B-1 complex. The building was constructed in 1942 and demolished in 1991. The building was used for thermal forming, thermal setting, layup, curling, sanding, painting of fiberglass and plastics, and cleaning, bonding, and forming of metals. The seepage pit appears to have been discovered during the infrastructure demolition, and is reported to have been approximately 10 feet in depth (Tetra Tech, 1996b). There was reported use of chromium and VOCs in Building 175. The reported historical use of the seepage pit is not known.

1.5.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 5 and maps showing soil sample locations. The nearby samples were located by land survey. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

Tetra Tech, 1995b: *Building 180 Site, Plant B1 West, Infrastructure Demolition Oversight Project Documentation*

During the removal of DW-5, three confirmation samples (B180-SS36 through B180-SS38) were collected at the bottom and sidewalls of the excavation; the excavation limits were not provided. Elevated concentrations of PCE and TCE were found in B180-SS37 (collected at 11 feet bgs under the seepage pit). PCE was detected at 29,000 µg/kg, TCE was detected at 150 µg/kg, and total chromium was detected at 34 mg/kg in this sample. The excavation was subsequently deepened to 20 feet bgs (Tetra Tech, 1995b). Four additional confirmation samples (B180-SS53 and B180-SS58 through B180-SS60) were collected at depths up to 20 feet in order to assess the soil remaining in place. The soil samples were analyzed for metals (including total chromium) and VOCs; the soil samples were not analyzed for hexavalent chromium. Detected total chromium concentrations in the remaining soil ranged from 5.9 to 14 mg/kg. Detected PCE concentrations in the remaining soil ranged from ND (less than 5 µg/kg) to 8 µg/kg, and TCE was not detected (less than 5 µg/kg) in the remaining soil.

1.6 AOC 6 – PLANT B-1 SEEPAGE PIT DW-6

Seepage pit DW-6 is located north of the Deluxe Digital Studios office building. The location of the former features is overlain by an asphalt-paved parking lot.

The Regional Board Order required the delineation of hexavalent chromium and VOCs at this feature.

1.6.1 Historical Use

DW-6 was located immediately north of former Building 175 within the Plant B-1 complex. There was known chromium and VOC usage in Building 175. The building was constructed in 1942 and

demolished in 1991. The building was used for thermal forming, thermal setting, layup, curling, sanding, painting of fiberglass and plastics, and cleaning, bonding, and forming of metals. The seepage pit appears to have been discovered during the infrastructure demolition, and the exact dimensions were not reported. However, based on the depth of a confirmation bottom sample, the seepage pit is believed to have been approximately 10 feet in depth. The historical use of the seepage pit is not known.

1.6.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 6 and maps showing soil boring and remedial excavation locations. The nearby samples were located by land survey. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

Tetra Tech, Inc., 1995b: *Building 180 Site, Plant B1 West, Infrastructure Demolition Oversight Project Documentation*

During the removal of DW-6, one confirmation sample (B180-SS44) was collected at the bottom of the excavation a depth of 17 feet bgs and one hand-augered sample was collected next to the seepage pit at a depth of 6 feet in order to investigate the feature. The soil samples were analyzed for metals (including total chromium) and VOCs; the soil samples were not analyzed for hexavalent chromium. Total chromium was detected at concentrations of 5.3 and 5.5 mg/kg. Detected PCE concentrations ranged from ND (less than 5 µg/kg) to 6 µg/kg, and TCE was not detected (less than 5 µg/kg) in the soil samples.

1.7 AOC 7 – PLANT B-1 BUILDING 175 VAPOR DEGREASER AND CLARIFIER

The former location Building 175 degreaser and clarifiers are located north of an office building (Deluxe Digital Studios), and southeast of the intersection of West Empire Avenue and North Buena Vista Street. The location of the former features is overlain by an asphalt-paved parking lot.

The Regional Board Order initially only required the delineation of VOCs at these features; however, the Regional Board subsequently added hexavalent chromium to the list of analytes to be delineated at AOC 7.

1.7.1 Historical Use

Former Building 175 was located in the western portion of Plant B-1. The building was constructed in 1942 and demolished in 1991. The primary operations at Building 175 consisted of thermal forming, thermal setting, layup, curling, sanding, painting of fiberglass and plastics, and cleaning, bonding, and forming of metals. A chemical process line occupied the northwest portion of the building. The chemical process line included two clarifiers (identified as B-1-ZB and B-1-ZC) located outside and just north of the building) and a degreaser located inside the building.

Based on the 1990 and 1992 Environmental Assessments, Clarifier B-1-ZB was a 3,000-gallon, two-stage concrete industrial waste water rinse clarifier that contained dilute sulfuric acid and sodium dichromate (Roy F. Weston, Inc., 1990; McLaren Hart, 1992). However, the clarifier reportedly received inadvertent inflows of PCE from a nearby dip tank in the past (Gregg & Associates, Inc., 1987). Clarifier B-1-ZC was a 500-gallon concrete industrial waste water transfer clarifier that also contained dilute sulfuric acid and sodium dichromate. Both B-1-ZB and B-1-ZC were removed in 1991. The degreaser was reported to be located on the east end of the chrome anodizing process line and contained unknown volumes of PCE.

1.7.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 7 and maps showing soil boring, sample, and remedial excavation locations. The nearby borings and samples were located by land survey and/or from the investigation maps. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

Gregg & Associates, Inc., 1985a: *Result of Investigative Activities at Selected Underground Storage Facilities, Lockheed-California Company, Burbank, California*

Gregg & Associates, Inc., 1987: *Results of Investigation of Deep Subsurface Contamination at Plant B-1, Site B-1-ZB, Lockheed-California Company, Burbank, California*

During a UST Leak Detection Program and a deep subsurface investigation conducted by Gregg & Associates in 1984 to 1985 and in 1987, respectively, seven soil borings were drilled adjacent to clarifiers B-1-ZB and B-1-ZC. The borings were drilled to depths of between 40 and 142

feet bgs, and soil samples were generally collected at 5- to 10-foot intervals. Based on the analytical data from the samples collected, elevated concentrations of VOCs and metals were reported. The soil samples collected adjacent to clarifier B-1-ZB contained PCE concentrations up to

23,000,000 µg/kg in soil at 28 feet bgs. Other VOCs, including TCE and 1,1,1-trichloroethane (1,1,1-TCA) were also detected, although at significantly lower concentrations. Metal analyses were only performed on samples from one boring; total chromium was detected at concentrations of 3.9 to 39.5 mg/kg).

Based on the results from these early investigations, the Regional Board issued Cleanup and Abatement Order (CAO) No. 87-161 on 17 December 1987. This order included a requirement for Lockheed Martin to investigate and remediate the soil and groundwater contamination beneath Building 175.

URS Consultants, Inc., 1988a: *Comprehensive Site Assessment Program at Lockheed Aeronautical Systems Company: Task 1 – Soil-gas Survey, Phase 1 – Feasibility Evaluation and Scoping*

URS Consultants, Inc., 1988b: *Comprehensive Site Assessment Program at Lockheed Aeronautical Systems Company: Task 1 – Soil-gas Survey, Phase 2 – Assessment of Horizontal Extent of Soil Contamination, Building 175*

URS Consultants, Inc., 1988c: *Comprehensive Site Assessment Program at Lockheed Aeronautical Systems Company: Task 4 – Feasibility Evaluation and Scoping, Phase 5 – Evaluation of contamination at other Suspect LASC Locations, Phase 6 – Evaluation of contamination at other Areas of the LASC Facility*

URS Consultants, Inc., 1988d: *Comprehensive Site Assessment Program at Lockheed Aeronautical Systems Company: Task 1 – Soil-gas Survey, Phase 3 – Assessment of Vertical Extent of Soil Contamination near Building 175*

Following the issuance of CAO 87-161, several phases of a comprehensive soil and soil-gas investigations were conducted at and around Buildings 175 and 180 in 1988 to evaluate the extent of VOC-impacted soil potentially associated with clarifier B-1-ZB. A total of 56 soil-gas sampling probes were installed at depths of between 4 and 110 feet bgs. The highest PCE concentrations reported from the samples collected were located near B-1-ZB. Subsequent soil samples were then collected in and around the location of the high soil-gas concentrations to assess the vertical extent

of PCE. Additionally, two vapor extraction vents were installed in two of the borings drilled during the investigation activities.

URS Consultants, Inc., 1989a: *System Evaluation Report, Building 175, Plant B-1, Burbank, CA, Volume 1 – Geohydrologic Evaluation*

Based on the findings from these investigations, four additional soil vapor extraction vents and five injection wells were completed and were integrated into a groundwater and soil vapor extraction and treatment system referred to as the AquaDetox system (URS Consultants, 1989a). The AquaDetox system operated between 1988 and 1994, and was ultimately replaced by the Burbank Operable Unit (BOU) groundwater extraction and treatment system.

ICF Kaiser Engineers, 1994b: *Building 175/180 Soil Vapor Investigation Report*

In 1994, a soil-gas investigation was conducted to investigate the vertical and lateral distribution of VOCs in the vicinity of Buildings 175 and 180. This investigation included collection of 3 soil samples (at depths of 28.25 to 61.75 feet bgs) and 19 soil-gas samples (at depths of 20 to 132.5 feet bgs) in the vicinity of the clarifier and degreaser. The investigation determined that VOCs (predominately PCE and TCE) were present at low concentrations in the subsurface soil vapor, and that their lateral and vertical extents were well defined.

Tetra Tech, 1995a: *Building 180 Site, Subsurface Investigation, Lockheed Plant B 1 West: Burbank, California*

A subsurface soil investigation was conducted in the Building 175 and Building 180 area from 1994 to 1995 to evaluate potentially chemical-impacted soil. The investigation included borings to depths up to 150 feet bgs in the vicinity of AOC 7, and soil samples were analyzed for VOCs and/or metals (including total chromium, but not hexavalent chromium). Total chromium was detected in soil samples at concentrations of 3.4 to 14 mg/kg. Concentrations of PCE and TCE ranged from ND (less than 5 µg/kg) to 300,000 µg/kg and from ND (less than 5 µg/kg) to 15 µg/kg, respectively.

Tetra Tech, 1995b: *Building 180 Site, Plant B-1 West, Infrastructure Demolition Oversight Project Documentation*

In 1995, an infrastructure demolition project was conducted at the former Building 175 and Building 180 sites to remove existing substructures and cut final grade on the site pending future development. Shallow soil samples were collected in the vicinity of AOC 7 as part of the oversight activities. Total chromium was detected in soil samples at concentrations of 2.3 to 950 mg/kg; the

samples were not analyzed for hexavalent chromium. Concentrations of PCE and TCE ranged from ND (less than 5 µg/kg) to 3,200 µg/kg and from ND (less than 5 µg/kg) to 34 µg/kg, respectively.

Tetra Tech, 1996b: *Lockheed Martin, Building 175 Additional Soil Gas Survey and Soil Borings*

Tech Tech, 1996e: *Lockheed Martin, Area 1 Building 175 Site, Former Plant B-1 West, Subsurface Investigation Report*

Tetra Tech, 1996f: *Lockheed Martin, Area 15/16, Building 175 Site, Former Plant B-West, Subsurface Investigation Repor*t

A subsurface investigation was conducted in the area of Buildings 175 and 180 from 1995 to 1996, following the decommissioning of the AquaDetox system. The investigation was performed in several iterations, each of which built on information gathered from previous investigations. The subsurface soil investigations included collecting and analyzing 23 soil samples (at depths of 2 to 150 feet bgs) in the vicinity of the clarifier and degreaser. None of the soil-gas samples from these investigations were collected in the vicinity of the clarifier and degreaser. The investigation data indicated that soil remaining with elevated PCE appeared to be limited and the PCE appeared to be isolated in lenses rather than spread uniformly through the soil column. Total chromium and hexavalent chromium were detected in soil samples collected in the vicinity of AOC 7 at concentrations of 4.1 to 690 mg/kg and at 0.6 to 2.9 mg/kg, respectively. Concentrations of PCE ranged from ND (less than 5 µg/kg) to 59,000 µg/kg; TCE was not detected in the soil samples (less than 5 µg/kg).

Tetra Tech, 1997a: *Building 175 Site, Former Clarifier B-1-ZB, Excavation Closure Report*

In 1997, the soil beneath the location of the former B-1-ZB with the elevated PCE concentrations was removed. The remedial excavation extended to a depth of 70 feet bgs and removed approximately 225 cubic yards of impacted soil. The excavation was then backfilled with lean cement slurry.

Tait Environmental, 1998: *Soil Gas Survey of Kilroy Parcel*

In 1998, a soil-gas survey in the area of former B-1-ZB was performed by a development and realty company. Overall, 158 soil-gas samples were collected at depths of 5 to 20 feet bgs. PCE concentrations in excess of 500 µg/L were reported in an approximately 150- by 180-foot area centered around clarifier B-1-ZB and the degreaser.

Tetra Tech, 1998a: *Former Building 175 Site, Limited Site Investigation, Burbank, California*
Based on the Tait Environmental investigation (1998), a limited site investigation was conducted in 1998 to assess VOC concentrations in soil and soil gas in the northwest corner of Building 175. A total of 76 soil-gas samples and 28 soil samples were collected and analyzed at depths of 5 to 20 feet bgs. The only VOC detected in soil gas at concentrations exceeding 10 micrograms per liter (µg/L) was PCE, which was detected at concentrations up to 2,775 µg/L (TA-1-9 at 20 feet bgs) in the vicinity of AOC 7. PCE concentrations in soil ranged from ND (less than 5 µg/kg) to 1,900 µg/kg (TA-1-9 at 5 feet bgs). TCE was not detected in the soil samples (i.e., less than 5 µg/kg).

Tetra Tech, 1999: *Plant B-1 Soil Gas Survey*
In 1999, Tetra Tech performed a soil-gas survey encompassing Plant B-1. Two of the soil-gas probes (B1-SG1 and B1-SG2) were installed to depths of 10 feet bgs in the vicinity of the former degreaser and clarifier B-1-ZB. PCE concentrations in these probes ranged from 23 to 2,682 µg/L, and TCE concentrations ranged from ND (less than 1 µg/L) to 2.8 µg/L.

1.8 AOC 8 AND AOC 9 – PLANT B-1 FORMER BURIED WASTE AREA

Currently, portions of the former buried waste area (including former Buildings 194 and 195) are overlain by an unoccupied commercial building and the soil-vapor extraction (SVE) system treatment plant. The remaining areas are covered by the associated asphalt-paved parking lot.

The Regional Board Order required the delineation of hexavalent chromium and VOCs at the features.

1.8.1 Historical Use

The Abandoned Waste Disposal Site (AWDS) was located in the southeast corner of the former Plant B-1 facility. Portions of the AWDS encompassed the area south and east of former Building 149 and former Buildings 194, 195, and 196. This area was believed to have been used as a disposal site for paint sludge, solvents, construction debris, and general manufacturing waste generated at the plant in the 1940s. The AWDS was discovered in 1984 during an excavation associated with a construction project.

Former Buildings 194 and 195 encompassed approximately 5,645 square feet in the southeast portion of Plant B-1. The buildings were used for storage and office space. A 3,200-square-foot hazardous material storage shed was located north of Building 195. During the 1993 demolition activities at Buildings 194 and 195, buried debris was uncovered beneath the foundation of the buildings (Tetra Tech, 1994a). There was no known chromium or VOC usage in Buildings 194 and 195, so any impacted soil is likely the result of disposal activities prior to construction of the buildings. As a result, Buildings 194 and 195 (AOC 8) are herein discussed in association with the AWDS (AOC 9).

1.8.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 8 and AOC 9 and maps showing soil boring, sample, and remedial excavation locations. The nearby borings and samples were located by land survey and/or from the investigation maps. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

Gregg & Associates, Inc., 1985b: *Report-Phase I Characterization of an Abandoned Waste Disposal Site, Plant B-1, Burbank, California*

In 1985, Gregg & Associates performed an investigation of the AWDS south of Building 149. The Phase I activities consisted of drilling 19 soil borings to depths up to 55 feet bgs and collecting soil and waste samples for laboratory analysis to initially characterize the area. Total chromium was detected at concentrations ranging from 3.3 to 116 mg/kg; the soil samples were not analyzed for hexavalent chromium. Detected PCE concentrations ranged from ND (less than 10.3 µg/kg) to 3.1 µg/kg, and detected TCE ranged from ND (less than 4.8 µg/kg) to 5.1 µg/kg.

Gregg & Associates, Inc., 1988: *Phase II Results of Waste Characterization Program, Lockheed Aeronautical Systems Company, Abandoned Waste Disposal Site, Plant B-1, Burbank, California*

In 1987, Gregg & Associates performed a second phase of investigation of the AWDS south of Building 149. The Phase II work included drilling and sampling 15 additional borings and completing a soil-gas survey to finalize characterization of the former AWDS. A portable gas chromatograph was used for soil-gas analyses, and these data are not presented. However, PCE was not detected, and TCE was detected at concentrations ranging from ND to 7,700 µg/L. The

Phase II borings were drilled to depths ranging from 20 to 70 feet bgs. The chemicals of concern detected in the soil samples included VOCs and metals. Total chromium was detected at concentrations ranging from 4.3 to 1,630 mg/kg, and hexavalent chromium was detected at concentrations ranging from ND (less than 0.5 mg/kg) to 0.53 mg/kg. Detected PCE concentrations ranged from ND (less than 50 µg/kg) to 80 µg/kg, and detected TCE ranged from ND (less than 50 µg/kg) to 1,900 µg/kg.

Based on the findings from both the 1985 and 1987 investigations, it was estimated that the AWDS site occupied an area of approximately 18,000 square feet and contained about 6,000 cubic yards of impacted soil and debris. The impacted soil was found to be generally less than 25 feet in depth, with a maximum depth reported at about 30 feet.

URS Consultants, Inc., 1989b: *Post-Excavation Engineering Report, Plant B-1 Abandoned Waste Disposal Site*

In 1989, the AWDS was excavated in compliance with the Regional Board CAO No. 87-191. A total of 9,000 cubic yards of soil and debris was excavated south of Building 149 and disposed of as hazardous waste. In one portion of the excavation, all debris and waste material could not be removed due to their proximity to Building 143. Post-excavation soil sampling and previous laboratory data indicated that detectable concentrations of contaminants were still present. With the Regional Board's permission, the excavation was backfilled and paved over with asphalt, but required further characterization of the subsurface soils.

Tetra Tech, 1992: *Site Assessment Report for Abandoned Waste Disposal Site, Lockheed Plant B-1, Burbank*

In 1991, Tetra Tech conducted a subsurface investigation within the AWDS (south of Building 149) to evaluate the distribution of VOCs, metals, and other constituents left in place after the 1989 removal program. At total of 15 soil borings were drilled to depths ranging from 40 to 95 feet bgs, and a total of 158 soil samples were collected (generally at 5-foot depth intervals) and analyzed for the chemicals of concern. Total chromium was detected at concentrations ranging from 2.8 to 420 mg/kg; hexavalent chromium was not analyzed in the soil samples. Detected PCE concentrations ranged from ND (less than 5 µg/kg) to 2.0 µg/kg, and detected TCE ranged from ND (less than 5 µg/kg) to 6.3 µg/kg.

Tetra Tech, 1994a: *Remediation/Delineation Report, Foundation and Infrastructure Demolition Monitoring, Lockheed Plant B-1, Burbank, Volume VI: Documentation Summary – Areas F, H – Remediations 98-104*

During the demolition activities southeast of Building 149 in 1993, buried debris was uncovered beneath the foundation of the buildings, and the AWDS boundaries were expanded to include the area southeast of Building 149 (including Buildings 194 and 195). This debris and visibly impacted soil was then excavated (to depths up to 23 feet bgs), and a total of 237 confirmation samples were collected and analyzed for various chemicals. The highest concentration of total chromium reported during excavation was 23,000 mg/kg at a depth of 7 feet bgs. This soil was subsequently excavated; the highest total chromium concentration in soil left in place was 450 mg/kg at a depth of 17 feet.

Tetra Tech, 1994d: *Building 149 and AWDS Soil Vapor Sampling, Plant B-1: Burbank, California*

In 1994, Tetra Tech conducted a soil-gas survey in the AWDS immediately adjacent to Building 149 to evaluate the extent of cis-1,2-dichloroethene (cis-1,2-DCE) and TCE in the subsurface. During this investigation, a total of seven multi-depth soil probes were installed. Based on the data collected, elevated concentrations of cis-1,2-DCE and TCE were found in the 40-, 50- and 60-foot depth intervals, with both compounds increasing in concentration with depth. PCE concentrations in soil gas ranged from ND (less than 0.1 µg/L) to 53 µg/L, and TCE ranged from ND (less than 0.1 µg/L) to 758 µg/L.

A.E. Schmidt Environmental. 1995a: *Lockheed Plant B-1 Abandoned Waste Disposal Site Closure Report*

A.E. Schmidt Environmental. 1995b: *Closure Report, Area H Buried Debris Remediation, Plant B-1, Burbank*

In 1994, A.E. Schmidt performed two removal programs in the AWDS area (south of Building 149). The removal programs excavated approximately 1,020 cubic yards of waste, debris, and impacted soil within the AWDS to depths up to 14 feet bgs. A total of 69 soil samples were collected and analyzed for the chemicals of concern. Total chromium was detected in soil at concentrations from 3.1 to 48 mg/kg; the soil samples were not analyzed for hexavalent chromium. Concentrations of PCE in soil ranged from ND (less than 5 µg/kg) to 0.029 µg/kg, and detected TCE ranged from ND (less than 5 µg/kg) to 20 µg/kg.

Tetra Tech, 1999: *Plant B-1 Soil Gas Survey*

In 1999, several nested soil-gas probes were installed in the AWDS and sampled: B1-SG69 through B1-SG71, B1-SG78, B1-SG83, and B1-SG84 at depths of 5 and 10 feet; and B1-SG77 and B1-SG79 at depths of 5, 10, and 40 feet. The PCE concentrations ranged from ND (less than 1 µg/L) to 4.7 µg/L, and the TCE concentrations ranged from ND (less than 1 µg/L) to 4.6 µg/L.

1.9 AOC 11 – PLANT B-6 BUILDING 371 FORMER CHROMIUM PASSIVATION AREA

The former plating line and dip tank line (CPL-1) is located immediately east of the current Starz building. The location of the former passivation area is currently overlain by an asphalt-paved parking lot.

The Regional Board Order required the delineation of hexavalent chromium and VOCs at the features.

1.9.1 Historical Use

Former Building 371 was located in the eastern portion of Plant B-6, east of Hollywood Way. From 1948 through 1980, the Pacific Airmotive Corporation (PAC) owned and operated the building. Reportedly, PAC used the property to conduct aircraft engine rebuilding activities. The chromium passivation area constructed in 1971, known as CPL-1, was located in the southeastern portion of the building. The plating line consisted of 21 separate dip tanks containing acids, solvents, and various plating solutions. Based on engineering plans, the following compounds were likely used in the plating line: cadmium, nickel, muriatic acid, cyanide, sulfuric electro-esh, and chromate. In addition, a Zyglo Processing System was located north of the plating line. This system included a 100-gallon dip tank containing Zyglo, a chemical used to dye small aircraft parts for structural inspection (Tetra Tech, 1993a).

Lockheed purchased the Building 371 complex in 1980 and used Building 371 for rebuilding and repair of aircraft engines. In 1981 Lockheed converted PAC's plating line into a parts dip tank line, which consisted of 15 dip tanks containing 1,1,1-TCA, various acids, and alkaline soap. The building was demolished in 2000. There was known chromium and VOC usage in Building 371 at the chromium passivation area.

1.9.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 11 and maps showing soil boring, sample, and remedial excavation locations. The nearby borings and samples were located by land survey and/or from the investigation maps. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

ENSR Consulting and Engineering, 1989: *Leak Detection Investigation*

ENSR Consulting and Engineering conducted a leak detection investigation for several features within the Lockheed Burbank facilities in 1989. One of the features assessed was Tank B6–U, located just south of the former chromium passivation area. Several borings (B-6-UB1, B6U-SB1, B6U-SB2, B6U-SB6, and B6U-SB7) were advanced in the vicinity of the passivation area to depths up to 70 feet bgs. The soil samples were analyzed for VOCs. Detected PCE concentrations ranged from ND (less than 5 µg/kg) to 661 µg/kg, and detected TCE ranged from ND (less than 5 µg/kg) to 2.9 µg/kg in the soil samples. The tank was subsequently closed in place in 1990 (ENSR, 1990).

Hargis + Associates, Inc., 1992: *Results of Soil Gas Survey, Building 371, Volume 1*

Hargis + Associates conducted a soil-gas survey in the area surrounding Building 371 in 1992. This survey consisted of 166 soil-gas samples at the site at approximately 66 locations. Of these, approximately eight survey locations (23 through 29, and 31) were in the vicinity of the chromium passivation area. Soil-gas samples in the vicinity of the chromium passivation area were collected at 5 feet bgs. Concentrations of PCE in soil gas ranged from 18 to 320 µg/L, and TCE concentrations in soil gas ranged from 6 to 39 µg/L.

Tetra Tech, 1995c: *Soil Gas Survey, Building 371 Complex: Burbank, California*

Tetra Tech conducted a second soil-gas survey in Building 371 in 1995. This survey consisted of 50 soil-gas locations within (and surrounding) the Building 371 complex. Seven sample locations (SG-21, SG-22, SG-27, SG-28, SG-33, SG-34, and SG-35) were located in the vicinity of the plating line, with soil-gas samples collected at depths up to 75 feet bgs. Concentrations of PCE in soil gas ranged from 38 to 2,420 µg/L, and TCE concentrations in soil gas ranged from ND (less than 1 µg/kg) to 34 µg/L.

Tetra Tech, Inc., 1996a: *Preliminary Site Investigation Report, Building 371 Complex, Burbank, California*

Tetra Tech conducted a combination soil and soil-gas investigation in Building 371 in late 1995. The soil-gas survey consisted of five additional soil-gas locations in the southeastern portion of the Building 371 complex. Four of the sample locations (B371-SB3A through B371-SB6A) were located in the vicinity of the plating line, with soil-gas samples collected at depths up to 75 feet bgs. Concentrations of PCE in soil gas ranged from 4 to 2,800 µg/L, and TCE concentrations in soil gas ranged from ND (less than 20 µg/L) to 24 µg/L.

The second phase of the investigation consisted of collecting soil samples within (and surrounding) the Building 371 complex. Fifteen of the sample locations (B371-SB1, B371-SB2, B371-SB5, B371-SB6, B371-SB8, B371-SB9. B371-SB12, B371-SB15, B371-SB20 through B371-SB22, and B371-SB3A through B371-SB6A) were located in the vicinity of the plating line, with soil samples collected at depths up to 75 feet bgs. Concentrations of PCE in soil ranged from ND (less than 0.8 µg/kg) to 4,400 µg/kg, and TCE concentrations in soil ranged from ND (less than 0.4 µg/kg) to 26 µg/kg. Total chromium was detected at concentrations ranging from 2.2 to 42 mg/kg. Hexavalent chromium was not part of the analyses for any of the borings.

A.E. Schmidt Environmental, 1997: *UST Closure Report, Building 371*

In 1997, A.E. Schmidt Environmental performed closure operations on two underground storage tanks (USTs) located west of the former plating line. Both tanks were assumed to have contained waste oil and/or diesel fuel when in use. During removal, two confirmation soil samples were taken at 11 feet bgs for each UST excavation: TN-1 and TN-2 for the northern tank, and TS-1 and TS-2 for the southern tank. The samples were analyzed for metals and VOCs; the soil samples were not analyzed for hexavalent chromium. Detected total chromium concentrations ranged from 5.4 to 30 mg/kg. Detected PCE ranged from ND (less than 1 µg/kg) to 560 µg/kg (both detections were in the southern excavation), and TCE was not detected (i.e., less than 1 µg/kg).

Blasland, Bouck & Lee, Inc., 1998: *Phase II Soil Gas Investigation, Building 371 Complex, Burbank, California*

Blasland, Bouck & Lee, Inc. performed a fourth soil-gas survey within the Building 371 complex from 1997 to 1998. The survey consisted of 134 soil-gas samples collected from 31 locations. Of these, six sampling locations (SG-64 and SG-76 through SG-80) were in the vicinity of the plating line, with soil-gas samples collected at depths up to 175 feet bgs. Concentrations of PCE in soil

gas ranged from 1 to 42,400 µg/L, and TCE concentrations in soil gas ranged from ND (less than 1 µg/L) to 12 µg/L.

A.E. Schmidt Environmental, 2000: *Foundation and Infrastructure Demolition Monitoring Report*

During the demolition of the floor slabs, footings, and infrastructure of the former Building 371 complex in 2000, chromium-impacted soil was observed northwest of the plating line, coinciding with the location of the former Zyglo system. The limits of the chromium area were delineated by observation of staining and augmented with nine borings (SB1 through SB9) drilled to 20 feet bgs. The impacted soil was subsequently removed to depths up to 20 feet bgs, and the excavation was backfilled with clean fill. Confirmation samples were taken from the sidewalls and bottoms of the excavations. Based on the results of laboratory analyses, the maximum total chromium and hexavalent chromium concentrations in soil left in place were 77 mg/kg and 47 mg/kg, respectively.

During the demolition of the floor slabs, footings, and infrastructure of the former Building 371 complex in 2000, VOC-impacted soil was observed west of the plating line. This area was subsequently remediated by excavating the impacted soil (up to 6 feet bgs) and backfilling with clean fill. Confirmation samples were taken from the sidewalls and bottoms of the excavations. Concentrations of PCE in the confirmation samples ranged from 15 µg/kg to 200 µg/kg, and TCE was not detected (i.e., less than 1 µg/kg).

1.10 AOC 12 – PLANT B-6 BUILDING 357 SEEPAGE PITS

The former Building 357 seepage pits (DW-1 and DW-2) are located in a lot currently used for storage of trucks. The locations of the former seepage pits are currently overlain by an asphalt-paved parking lot.

The Regional Board Order required the delineation of hexavalent chromium at these features.

1.10.1 Historical Use

The Building 357 complex (also known as the Fort) consisted of eight buildings (Buildings 334, 335, 336, 337, 338, 357, 357T, and 358), and was located in the northwest portion of the former Plant B-6. The complex consisted of eight buildings within a single secured location. The complex

was built between 1943 and 1980 and had been used as a test facility for fuel systems, hydraulic systems, and electrical components since the 1950s. During and after World War II, the Fort was used for parking and maintenance of aircraft (including the P-38 fighter and the Constellation). Fuel testing was the primary activity at the Fort through the 1990s.

The Building 357 seepage pits were located just northwest of Building 336 (east side of the Fort). The Environmental Assessment (McLaren Hart, 1991c) states that two "dry wells" of unknown depth were identified in a drawing from 1956. The drawing identified 4-inch-diameter vitrified clay pipe waste water lines that discharged to these seepage pits from Building 336 and two other buildings that were no longer present, suggesting that these features could have been seepage pits used for disposal of sewage. The Environmental Assessment also noted that the Lockheed personnel could not confirm the existence of the seepage pits. Additionally, based on the information gathered during the Environmental Assessment, one of the two buildings was used for storage and the other was identified as the SR Hydro Building.

Building 336 was used for hydrogen testing of valves, pumps, and actuators in the 1950s, and was later used for air, nitrogen, and liquid oxygen testing. The Environmental Assessment noted that chemical use in Building 336 was limited to wiping off parts with small amounts of solvents. There is no indication that chromium was used in Building 336 (or any other building within the Fort), or that chromium was discharged to the seepage pits.

1.10.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 12 and maps showing the soil boring location. The nearby boring was located by land survey. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

Tetra Tech, 1993d: *Preliminary Data Report –Area B, Lockheed Plant B-6, Burbank*

In 1993, Tetra Tech conducted a soil investigation at the former Plant B-6 which included collecting soil samples at the former Building 357 complex. One soil boring (B357-SB4) was drilled to 10 feet bgs in the approximated location of the two seepage pits, and samples were collected and analyzed for metals. Based on an assessment of the data, total chromium was

detected at concentrations between 3.8 and 5.9 mg/kg. Hexavalent chromium was not part of the analyses.

1.11 AOC 13 – PLANT B-6 BUILDING 353 DRY WELLS AND CLARIFIER B-6-F

The former Building 353 dry wells (DW-3 through DW-5) and clarifier B-6-F are located in a lot just south of Hertz Entertainment Services on Bob Hope Airport property. The location of the former dry well is overlain by dirt with sparse native vegetation.

The Regional Board Order required the delineation of hexavalent chromium at these features.

1.11.1 Historical Use

The Building 353 complex consisted of three buildings (Buildings 353, 353A, and 353B) located near the northern property boundary of the former Plant B-6. The complex was built between 1961 and 1963 and was used for the processing of metal parts for aircraft, especially aluminum and titanium.

Two 4-feet-diameter, 10-feet-deep dry wells (DW-4 and DW-5) and the clarifier were located in the western portion of Building 353, and a third dry well (DW-3) was located on the north end of the building near the aluminum process line. The clarifier was installed in 1981 and was used for the pre-disposal treatment of the metal process line rinse water from three 6,000-gallon chemical supply tanks that contained phosphoric acid, sodium hydroxide, and sodium metabisulfate. The clarifier was filled with concrete slurry in 1995.

The two dry wells west of Building 353 (DW-4 and DW-5) were identified in a drawing from 1982, and reportedly received water from a former utility trench located inside building 353 and from surface runoff from areas outside the building. The dry wells were filled in 1986 (McLaren Hart, 1991c). The use and depth of DW-3 is unknown. Chromium was known to have been used in Building 353. There was no report of chromium being discharged to the dry wells.

1.11.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical

analytical results for COCs at AOC 13 and maps showing soil boring and remedial excavation locations. The nearby borings and samples were located by land survey and/or from the investigation maps. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

Tetra Tech, 1993f: *Preliminary Data Report –Area C, Lockheed Plant B-6, Burbank*
In 1993, Tetra Tech conducted a soil investigation at the former Plant B-6, which included collection of soil samples at the former Building 353 location. Two borings (C353-SB15 and C353-SB44) were drilled in the vicinity of dry wells DW-4 and DW-5 to depths of 10 feet bgs. Total chromium was detected at concentrations ranging from ND (less than 0.5 mg/kg) to 6.5 mg/kg. Hexavalent chromium was not part of the analyses for any of the borings.

Tetra Tech, 1996c: *Subsurface Soil Investigation, Plant B-6 Area #4, Final Report*
In 1996, Tetra Tech collected two soil samples (353-B6F-N & 353-B6F-S) at 10 feet bgs in the location of former clarifier B-6-F as part of a closure for the clarifier. Total chromium was detected at concentrations of 5.4 and 8.8 mg/kg, and hexavalent chromium was not detected in the samples (less than 0.1 mg/kg).

Tetra Tech, 1996d: *Closure Report Clarifiers B-6-F, B-6-K, and B-6-Z, Final Report*
In 1996, Tetra Tech conducted a soil investigation at the former Plant B-6, which included collecting soils samples at the former Building 353 location. Two soil borings (C353-SB65 and C353-SB67) were drilled to 50 feet bgs in the vicinity of dry well DW-6. Total chromium was detected at concentrations ranging from 2.1 to 99 mg/kg. The highest concentrations were detected at 10 and 15 feet bgs in boring C353-SB65. Hexavalent chromium was not part of the analyses for any of the borings.

1.12 AOC 14 – PLANT B-6 BUILDING 340 DRY WELL

The former Building 340 dry well (DW-8) is located west of Hollywood Way on Bob Hope Airport property. The location of the former dry well is overlain by dirt with sparse native vegetation.

The Regional Board Order required the delineation of hexavalent chromium at this feature.

1.12.1 Historical Use

Building 340 was located in the central portion of Plant B-6, west of Building 341 and east of Building 83. The 400-square-foot building was built in 1945 and was used as an electrical switchgear station. An 8-feet-deep dry well (DW-8) was located just south of the southern exterior wall of the building. The dry well was constructed of 12-inch-diameter vitrified clay drain tiles stacked on end in a borehole. The dry well had a concrete collar that projected about one foot above grade, covered by a wood lid. A cable duct that crossed the dry well was pierced to allow accumulated water to drain into the dry well. The historical use of the dry well is not known (McLaren Hart, 1991d). There is no indication that chromium was used in Building 340.

1.12.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 14 and maps showing the soil boring location. The nearby borings and samples were located by land survey. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

Tetra Tech, 1993f: *Preliminary Data Report –Area C, Lockheed Plant B-6, Burbank*
No investigations have been performed specifically for this feature. Borings C341-SB41 and C341-SB42 were drilled in the general vicinity of the dry well to depths of 10 feet bgs. Total chromium concentrations in the soil samples ranged from 5.2 to 12.6 mg/kg. The samples were not analyzed for hexavalent chromium.

1.13 AOC 15 – PLANT B-6 BUILDINGS 332-333 SEEPAGE PITS

The former Buildings 332-333 seepage pits are located west of Hollywood Way on Bob Hope Airport property. The locations of the former seepage pits are overlain by an asphalt-paved empty lot.

The Regional Board Order required the delineation of hexavalent chromium at these features.

1.13.1 Historical Use

Buildings 330, 331, 332, and 333 were located in the central portion of Plant B-6. Buildings 332 and 333 were initially utilized to support operations associated with the start-up and final testing of completed aircraft. Building 330 and 331 were used for aircraft and engine shakedown (testing and inspection). Five seepage pits of unknown depth were located south of former Building 330, between former buildings 332 and 333 (McLaren Hart, 1991d). The seepage pits received rainwater from building downspouts (McLaren Hart, 1991d). The seepage pits were reportedly filled in 1982 and demolished in 1987. Similar pits may have been located south of Building 331 as well. There is no indication that chromium was used in Buildings 330, 331, 332, or 333, or that chromium was discharged to the seepage pits.

1.13.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes Tables presenting historical analytical results for COCs at AOC 15 and maps showing soil boring locations. The nearby borings and samples were located by land survey. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

Tetra Tech, 1993e: *Preliminary Data Report –Area E, Lockheed Plant B-6, Burbank*
Five borings (ECY-SB12 through ECY-SB16) were drilled to depths of 10 feet bgs at the reported locations of the former seepage pits in 1993. Soil chromium concentrations ranged from 2.1 to 11.2 mg/kg; the soil samples were not analyzed for hexavalent chromium.

1.14 AOC 16 – PLANT B-6 BUILDING 310 METAL FINISHING LINES, SUMP, AND SAND TRAPS

The Building 310 metal finishing lines, sump, and sand traps are located west of Hollywood Way on Bob Hope Airport property. The locations of the former features are overlain by dirt with sparse native vegetation.

The Regional Board Order required the delineation of hexavalent chromium at these features.

1.14.1 Historical Use

Building 309/310 was a 410,000 square-foot structure that was located near the southern boundary of the former Plant B-6. Initial construction of the building began in 1945 and the building was extended eastward in 1954. The building was used for aircraft final assembly operations.

Building 310 contained two metal finishing lines. One metal finishing line, CPL-3, was located in the northwestern portion of the building. This metal finishing line was installed in 1954 and operated for one year. It was removed in 1970. CPL-3 contained a degreaser and sump, five process tanks (one of which was an alodine tank, indicating that chromium was used in the building), and an adjacent sand trap (Sand Trap 4). Spilled fluid from the degreaser drained into the sump and was pumped into the sand trap north of the building. The second metal finishing line, CPL-4, was located to the east, in the north-central portion of Building 310. Information is limited on the details for this metal process line, but facility drawings indicate that it had at least three aboveground tanks (chromium usage is unknown). Overflow from a quench tank was pumped into an adjacent sand trap (Sand Trap 5) located at northern portion of the metal finishing line.

Two sand traps (Sand Traps 6 and 7) were located along the southern portion of the former Building 309/310 complex. One sand trap was located in the western portion of Building 310, and one sand trap was located in the eastern portion of Building 309. These sand traps were located immediately adjacent to paint booths, and received discharge from the paint booths. No chromium usage was reported for the sand traps.

1.14.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 16 and maps showing the soil boring location. The nearby borings and samples were located by land survey and/or from the investigation maps. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

Tetra Tech, 1993c: *Preliminary Data Report –Area F, Lockheed Plant B-6, Burbank*
Two borings (F310-SB12 and F310-SB13) were drilled to depths of 10 feet bgs in the general vicinity of the two metal finishing lines, with reported soil chromium concentrations ranging from

3.2 to 16.7 mg/kg; the soil samples were not analyzed for hexavalent chromium. One boring (F310-SB10) was drilled to a depth of 10 feet bgs in the general vicinity of the southern sand traps, with reported soil chromium concentrations ranging from 3.5 to 12.5 mg/kg. The soil samples were not analyzed for hexavalent chromium.

1.15 AOC 17 – PLANT B-6 BUILDING 88 SEEPAGE PITS

The former Building 88 seepage pits (DW-6 and DW-7) are located in a lot currently used for storage of trucks. The location of the former dry wells is currently overlain by an asphalt-paved parking lot.

The Regional Board Order required the delineation of hexavalent chromium at these features.

1.15.1 Historical Use

Building 88 was a 13,300-square-foot structure that was located near the northern property boundary of the former Plant B-6. Initial construction of the building began in 1944 and included the main tunnel structure and control room area. During the 1991 Environmental Assessment (McLaren Hart, 1991d), the building was being used as a power plant and fuel systems laboratory. The building included a power plant laboratory, fuel systems laboratory engineering offices, maintenance shed, wind tunnel, and control room areas. There is no reported use of chromium in Building 88.

Two seepage pits were located in the Building 88 area. The first seepage pit (DW-6) was located at the western end of Building 88 below the floor grate of the intake stack in the power plant. This 16-feet-deep seepage pit was completed in 1953 when the power plant laboratory tunnel was modified to add intake and exhaust stacks at the west and east ends, respectively. These intake and exhaust stacks were constructed for the wind tunnel, which was used to simulate flight conditions during testing of reciprocating propeller engines. The purpose of this seepage pit was to receive precipitation that entered the intake stack, which was open at the top. There is no reported usage of chromium in association with this feature.

The second dry well (DW-7) was located just northeast of Building 88 next to the engineering offices. This dry well was referenced in an engineering drawing from 1952 as a 3-feet-deep, 18-inch-diameter dry well filled with broken rock. The dry well was used to receive water from an

evaporative cooler located on an interior wall of the engineering office. There is no reported usage of chromium in association with this feature.

1.15.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 17 and maps showing the soil boring location. The nearby borings and samples were located by land survey. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

Tetra Tech, 1993d: *Preliminary Data Report –Area B, Lockheed Plant B-6, Burbank*
In 1993, Tetra Tech conducted a soil investigation at the former Plant B-6, and collected soils samples at the former Building 88 location. One soil boring (C88-SB5) was drilled to 10 feet bgs in the approximated location of DW-7, and soil samples were collected and analyzed for metals. Soil chromium concentrations ranged from 7.9 to 31.4 mg/kg; the soil samples were not analyzed for hexavalent chromium. The closest boring to DW-6 (in the former intake stack) was C88-SB3, located north of the dry well. Soil chromium concentrations ranged from 7.1 to 7.2 mg/kg in this boring; the soil samples were not analyzed for hexavalent chromium.

1.16 AOC 18 – PLANT B-6 BUILDING 83 CLARIFIER, SUMPS, AND SAND TRAPS

The former Building 83 clarifier is located in an asphalt-paved lot currently used for storage of trucks. The former Building 83 sumps and sand traps are located on Bob Hope Airport property to the south, and are overlain by dirt with sparse native vegetation.

The Regional Board Order required the delineation of hexavalent chromium at these features.

1.16.1 Historical Use

Building 83 was a 25,600 square-foot structure that was located near the eastern boundary of the former Plant B-6, south of Building 82. Building 83 was constructed in 1942. The 1991 Environmental Assessment indicated that the site was used as a paint hanger (McLaren Hart, 1991d). Chromium compounds were known to have been used in Building 83 (including alodine; McLaren Hart, 1991d).

A clarifier was formerly located 25 feet north of Building 83. The clarifier was nine feet long, six feet wide, and six feet deep. Discharge from floor drains and floor sinks (at the time when the paint operations were a wet wash system prior to 1980) was directed to the clarifier and then into the municipal sewer. It is unknown if chromium compounds from activities in the building were washed into the feature.

A sump and an adjacent sand trap (Sand Trap 3) were located in the southeastern portion of Building 83 near the eastern wall. The sump was inside the building and the sand trap was outside. The sump was installed at the bottom of a 7.5-feet-deep pipe pit to collect compressor condensate and oil and then pump it to the adjacent sand trap located outside the compressor room, and then into the municipal sewer. A drawing in the Environmental Assessment shows a 2-inch-diameter line going into the sand trap with the notation "from cooling tower" (McLaren Hart, 1991d). It is unknown if chromium compounds were used in association with the features.

Another sump and sand trap (Sand Trap 2) were located on the western wall of the heat exchange room in northeastern portion of Building 83. These features collected condensate from the heat exchanger and discharged it to the municipal sewer.

1.16.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 18 and maps showing soil boring and remedial excavation locations. The nearby borings and samples were located by land survey and/or from the investigation maps. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

Tetra Tech, 1993d: *Preliminary Data Report –Area B, Lockheed Plant B-6, Burbank*

In 1993, Tetra Tech conducted a soil investigation at the former Plant B-6 and collected soil samples at the former Building 83 location. Two soil borings (C83-SB39 and C83-SB58) were drilled to 10 feet bgs in the approximated location of the clarifier. Samples were collected and analyzed for metals. Soil chromium concentrations ranged from 10.8 to 36 mg/kg; the soil samples were not analyzed for hexavalent chromium.

Several additional borings (C83-SB40, C83-SB55 and C83-SB57) were drilled to 10 feet bgs in the vicinity of the sumps and sand traps. Soil chromium concentrations ranged from 6.4 to 15.3 mg/kg; the soil samples were not analyzed for hexavalent chromium.

Tetra Tech, 1997b: *Limited Excavation Delineation Summary Report, Plant B-6, Burbank, California*

In 1997, Tetra Tech conducted a limited excavation delineation program to remove areas identified as having impacted subsurface soils. This program included the removal of the clarifier located north of Building 83 and excavation of the soil around and beneath, for the primary purpose of evaluating the extent of total recoverable petroleum hydrocarbons (TRPH). The excavation was 10 feet wide, 15 feet long, and extended to a depth of 15 feet bgs. During the excavation, no soil discoloration, odors, or other evidence of chemical discharge were observed. Since the primary focus was to assess TRPH, confirmation samples from the excavation sidewalls or bottom were not analyzed for metals.

1.17 AOC 19 – PLANT B-6 BUILDING 82 METAL FINISHING PROCESS LINE, SUMP, SAND TRAP, AND PITS

The former Building 82 metal finishing process line area is located in a lot currently used for storage of trucks. The location of the former features (which include a former metal processing line, a sand trap, a sump, and pits) is currently overlain by an asphalt-paved parking lot.

The Regional Board Order required the delineation of hexavalent chromium at these features.

1.17.1 Historical Use

The Building 82 complex consisted of seven buildings (Buildings 82, 82A, 82B, 82C, 82D, 82E, and 86) and was located in the northern portion of the former Plant B-6. Building 82 was built between 1941 and 1943, with 82A completed in 1944. Buildings 82B and 82C were added in 1951 and 1952, respectively, and were also used for offices. Building 82D was completed in 1955. Buildings 82E and 86 were completed much later in the 1980s. During the 1991 Environmental Assessment (McLaren Hart, 1991c), the complex of buildings was used for manufacturing, assembly, and office areas. Aerial photographs from 1946 and plot plans from 1948 and 1965 indicate that the building was also used for servicing aircraft. The complex has also been used for

experimental work. It is unknown if chromium was used in the former Building 82 metal process line.

A metal process line was formerly located in the southern portion of Building 82 in a large pit (Pit 2). The process line was reportedly used to prepare small aluminum and titanium parts for spot welding and painting. A facilities drawing from 1954 indicated that the process line had a hot rinse tank, an alkaline cleaner tank, an acid etch tank, and a cold water rinse tank placed in a one-foot-deep spill containment pit. Drains from the rinse tanks and alkaline cleaner tank (and overflow from the other tanks) discharged to a sump (designated B-6-J) located southeast of the pit and process line, and then to a storm drain. The containment pit and sump were filled with concrete in 1983. Chromium usage at the features is unknown.

A sand trap (Sand Trap 1) was located west of the pit containing the former metal processing line. This sand trap received discharge from a roof drain and cooling water from an adjacent Cerrobend system (a tube bending system which uses a low-melting point alloy generally associated with bismuth, lead, tin, and cadmium). The water in the sand trap then discharged to the storm drain. Chromium usage at the features is unknown.

An electrical utility pit (Pit 1) was located in Building 82D (which was used as a blueprint room), in the northern portion of the Building 82 complex. Two more pits (Pits 3 and 4) were located in Building 82A, east of the former process line pit and southeast of Building 82D. A 1961 drawing indicated there were electrical utility pits in Building 82A, but did not indicate the exact location. Building 82A was used for final assembly operations, and reportedly contained no machine pits. There is no indication that chromium was used at the features.

1.17.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 19 and maps showing the soil boring location. The nearby borings and samples were located by land survey. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

Tetra Tech, 1993d: *Preliminary Data Report –Area B, Lockheed Plant B-6, Burbank*

In 1993, Tetra Tech conducted a soil investigation at the former Plant B-6, and collected soils samples at the former Building 82 complex. Two soil borings (C82-SB6 and C82-SB3) were drilled to 10 feet bgs in the vicinity of the pits, the sump, and the sand trap. Soil chromium concentrations ranged from 2.5 to 8.8 mg/kg; the soil samples were not analyzed for hexavalent chromium.

1.18 AOC 20 – PLANT C-1 BUILDING 43 METAL FINISHING AREA, LEACH FIELDS, AND BUILDING 50 DRY WELL

Per the Order, this AOC originally included the delineation of hexavalent chromium at the former sump in the Building 43 metal finishing area. The Regional Board's 19 September 2013 comments on the draft work plan subsequently modified the requirements to include delineation of the former leach field off the southwest corner of Building 43, rather than the sump within Building 43. Additionally, the Regional Board requested delineation of the area of a former dry well in Building 50.

The Building 43 metal finishing area and Building 50 dry well are located immediately west of the current Atlantic Aviation building. The two former leach fields are located immediately west and southwest of the current Atlantic Aviation building. The location of the former features is overlain by a vacant dirt-covered lot and/or concrete within Bob Hope Airport property.

1.18.1 Historical Use

Operations in former Building 43 of Plant C-1 consisted of metal finishing and tooling repair. A large tooling machine with an associated floor sump was located along the west wall of the building. The sump was reportedly used to collect excess oils and machine coolants and to separate the fluids. The sump was pumped once a week (when in operation), and the oil was removed and taken to a recycling station. The sump was a 2-foot by 4-foot (2.5-feet deep) concrete sump. There is no indication that chromium was used in Building 43 or that it was discharged to the sump.

There were two leach fields formerly located in Plant C-1. One leach field was located southwest of Building 43, and the second leach field was located south of Buildings 29 and 43, west of Building 40, and north of Building 35. In both leach fields, septic tanks were connected via distribution lines to distribution boxes; distribution lines extended from the distribution boxes to

the seepage pits, which were estimated to be 16 to 20 feet in depth. The leach fields were used to dispose of sewage from adjacent buildings (URS Consultants, 1993). The operations in the adjacent buildings included metal finishing and tool repair (Building 43), storage and testing of equipment parts (Building 29), manufacture and modification of aircraft parts (Building 40), and machining (Building 35). There is no indication that chromium was used in these buildings or that it was discharged to the septic tanks.

The Building 50 dry well was located in the northeast portion of the building, within an area described as a "testing area" and northwest of a compressor room. The dry well was reported to be 24 inches deep, and the use of the feature was unknown. Building 50 was used as a freight terminal by the Flying Tigers and as a light fabrication and aircraft modification shop by GO Transportation. After acquisition by Lockheed, the building was used for aircraft fabrication mock-up, storage of raw metal stock, and receiving machine tools.

1.18.2 Prior Characterization Activities

The *Revised Additional Site Investigation Work Plan, Former Burbank Plants A-1 North, B-1, B-6, and C-1, Burbank, California* (Tetra Tech, 2014a) includes tables presenting historical analytical results for COCs at AOC 20 and maps showing soil boring, sample, and remedial excavation locations. The nearby borings and samples were located by land survey and/or the sample logs. Buildings and features identified on maps or site plans were best fit using easily geo-referenced points.

McLaren Hart, 1991b: *Soil Investigation Results Rounds 2 through 6, Lockheed Plant C-1, Burbank, California*

The septic tanks and leach fields were investigated in 1990 as part of a larger investigation for Plant C-1. Soil samples were collected at depths ranging from 10 feet to 41 feet bgs. Title 22 metals were analyzed in selected soil samples, but hexavalent chromium was not. Total chromium concentrations ranged from 1.7 to 7.3 mg/kg for the northwestern leach field, and from 1.8 to 6.6 mg/kg in the southeastern leach field.

During the investigation, borings SB-45, SB-46, CB-26, SB-41 and SB-42 were advanced in the vicinity of the Building 50 dry well. The soil samples from these borings, collected at depths

ranging from 5 feet to 15 feet bgs, had chromium concentrations ranging from 1.2 to 7.3 mg/kg. Hexavalent chromium was not analyzed in the soil samples.

URS Consultants, Inc., 1993**:** *Plant C-1 Abatement, Remediation, and Demolition Oversight Activities*

During the 1993 demolition of portions of Plant C-1, the septic tanks and seepage pits were removed and soil samples were collected from under the features. These features were designated in the report as AOC 43 (Building 43 septic tank), AOC 45 (septic tank and seepage pits between Buildings 29 and 35), and AOC 50 (seepage pits for Building 43). Soil samples were collected and analyzed for total chromium, with concentrations ranging from 2.2 mg/kg to 4.7 mg/kg in the northwestern leach field and septic tank (adjacent to Building 43), and from 1.7 to 95 mg/kg in the southeastern leach field. In addition, select samples were analyzed for hexavalent chromium. All samples were less than 0.25 mg/kg.

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G-7 Aircraft Hazard and Land Use Risk Assessment

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AVION BURBANK PROJECT

Aircraft Hazard and Land Use Risk Assessment

Prepared for
City of Burbank
275 East Olive Avenue
Burbank, CA 91502

September 2017

ESA

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EXECUTIVE SUMMARY

The purpose of this Aircraft Hazard and Land Use Risk Assessment is to evaluate the potential airport hazard and land use compatibility impacts resulting from implementation of the proposed Avion Burbank Project (project), largely in relation to its proximity to Hollywood Burbank Airport (the Airport), formerly known as the Bob Hope Airport. The project site is located in the City of Burbank and immediately adjacent to the Airport. The proposed project would involve the construction of nine office buildings that comprise a total of approximately 142,250 square feet (sf), two retail buildings that comprise a total of approximately 15,475 sf, a 101,230-square-foot hotel, six industrial buildings that comprise 1,014,887 sf, enhancements to onsite landscaping and circulation, and 2,430 surface parking spaces.

Based on the assessment conducted in this report, the proposed project would be consistent with federal, State, and local policies pertaining to noise, safety, airspace protection, and overflight.

SECTION 1.0
Introduction

This technical report has been prepared to supplement the City's environmental review process and provide information regarding potential impacts to airport land use compatibility associated with the approval of the project. The proposed project would be entirely located within the City of Burbank, and would involve the construction of nine office buildings that comprise a total of approximately 142,250 sf, two retail buildings that comprise a total of approximately 15,475 sf, a 101,230-square-foot and 166-room hotel, six industrial buildings that comprise 1,014,887 sf, enhancements to on-site landscaping and circulation, and 2,430 surface parking spaces.

This report identifies applicable airport land use compatibility regulations, and evaluates noise, safety, and airspace protection impacts associated with buildout of the project. Overflight is not addressed in any of the regulations directly affecting land use in the Airport environs, but a brief discussion is provided in the Regulatory Setting section that follows to provide background information on residential overflight standards based on State guidance.

Information used to prepare this analysis was obtained from the City of Burbank General Plan (2013), the City of Burbank Zoning Code (2017), the Los Angeles County Airport Land Use Plan (the ALUP, 2004) and federal aviation regulations, along with other sources identified herein.

1.1 Project Location

The proposed project is located in the western portion of the City of Burbank, at 3001 North Hollywood Way, and near the City of Los Angeles. The Airport is located immediately to the west and the south of the project site. The Replacement Terminal project at the Airport, which is designed to replace the existing terminal, will be northeast of the Airport's runways. The proposed project would be located adjacent to this new terminal. North Hollywood Way is immediately east of the project site, and San Fernando Road and Cohasset Street are north of the project site. The surrounding land uses include the aforementioned Airport, airport surface parking, some industrial and storage uses, and vacant land that is zoned M-2 (General Industrial) and AP (Airport).

The project site comprises approximately 61 acres and is relatively flat. The project site is graded and partially developed with surface parking lots used as commercial long-term storage of automobiles and storage pods, primarily in a northern portion of the project site. **Figure 1** provides the regional location for the project site, and **Figure 2** provides the site plan. An aerial map illustrating the project site and its immediate surrounding land uses are presented in **Figure 3**. A map of the Airport Layout Plan (ALP) for Burbank Bob Hope Airport is presented in **Figure 4**.

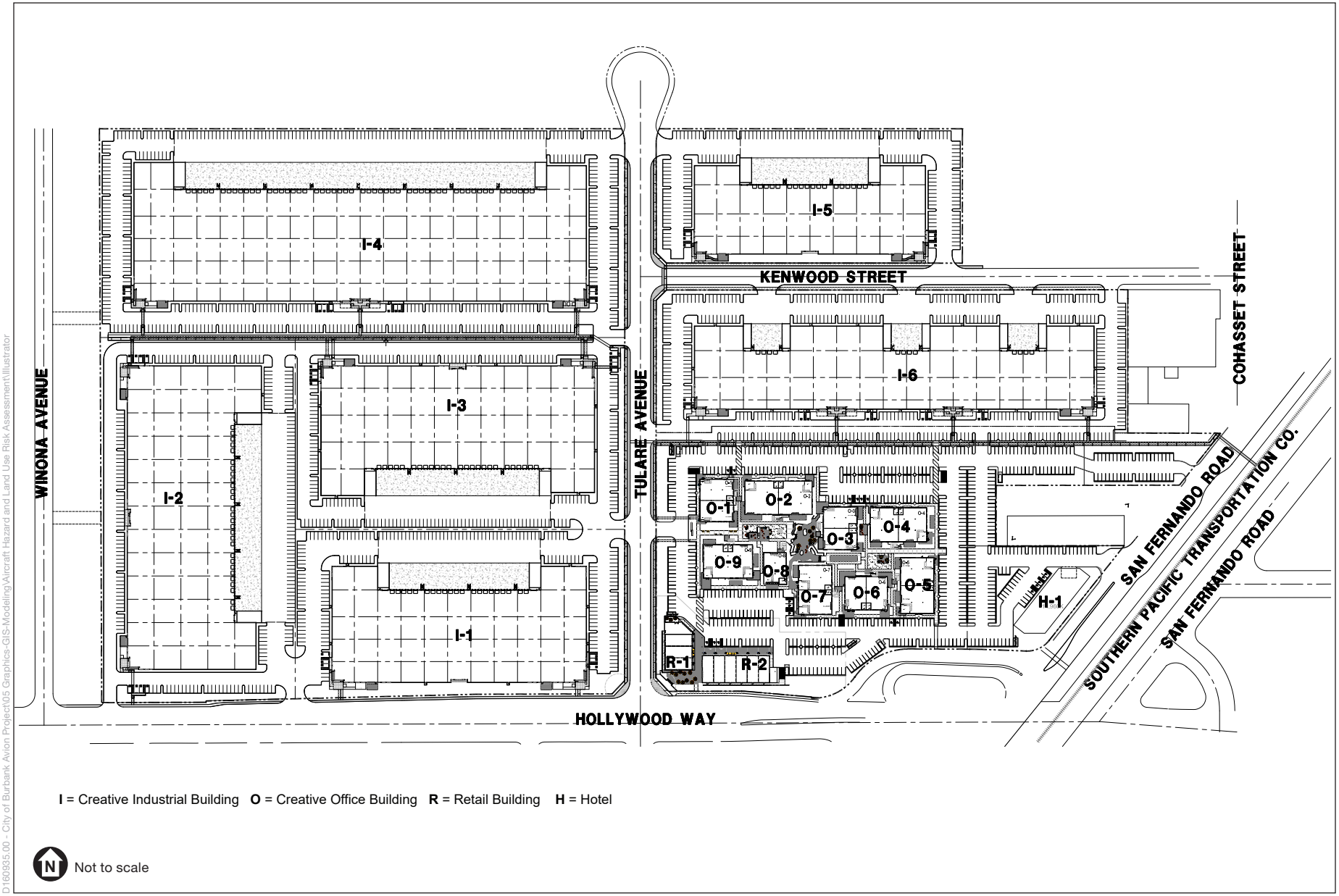
D160935.00 - City of Burbank Avion Project\05 Graphics-GIS-Modeling\Aircraft Hazard and Land Use Risk Assessment\Illustrator

SOURCE: ESRI, 2017

Avion Burbank Project

Figure 1
Regional Location

ESA



D160935.00 - City of Burbank Avion Project\05 Graphics-GIS-Modeling\Aircraft Hazard and Land Use Risk Assessment\Illustrator

SOURCE: Overton Moore Properties, 2017

Avion Burbank Project

Figure 2
Site Plan

ESA

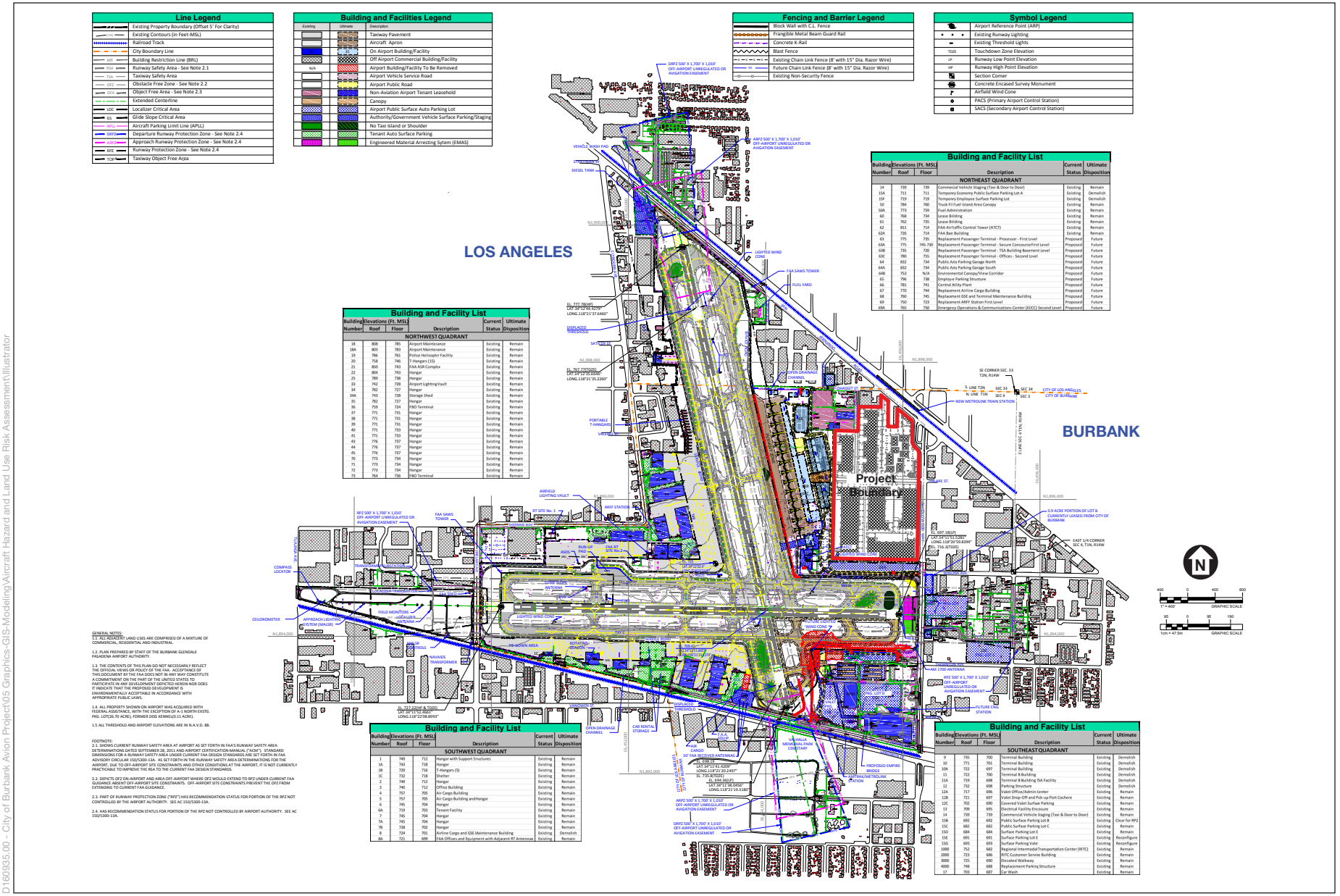
D160935.00 - City of Burbank Avion Project\05 Graphics-GIS-Modeling\Aircraft Hazard and Land Use Risk Assessment\Illustrator

SOURCE: ESRI, 2017

Avion Burbank Project

Figure 3
Surrounding Land Uses

ESA



SOURCE: Burbank-Glendale-Pasadena Airport Authority, 2017

Avion Burbank Project

Figure 4
Airport Layout Plan

ESA

D160935.00 - City of Burbank Avion Project\05 Graphics-GIS-Modeling\Aircraft Hazard and Land Use Risk Assessment\Illustrator

1.2 Project Description

The project site currently consists of largely undeveloped asphalt surfaces, subsurface facilities, and a one-story office building. The proposed project would involve the demolition of impervious surfaces and require the abandonment and capping of some subsurface facilities, along with the demolition of the onsite office building. The proposed project would involve the construction of office, retail, and industrial uses, a hotel, enhancements to onsite landscaping and circulation, and 2,430 surface parking spaces. **Table 1** provides the square footage for each of the buildings comprising the proposed project. The different components of the proposed project are summarized below.

TABLE 1
PROPOSED USES AND BUILDING SQUARE FOOTAGE

Use	Area Square Footage (SF)[1,2]
Creative Industrial Component	**1,014,887 SF**
Building #1	138,258 SF
Building #2	183,935 SF
Building #3	161,424 SF
Building #4	282,466 SF
Building #5	93,582 SF
Building #6	155,222 SF
Creative Office Component	**142,250 SF**
Building #1	14,250 SF
Building #2	22,500 SF
Building #3	14,250 SF
Building #4	18,750 SF
Building #5	18,750 SF
Building #6	14,250 SF
Building #7	16,500 SF
Building #8	6,500 SF
Building #9	16,500 SF
Retail Component	**15,475 SF**
Building #1	6,300 SF
Building #2	9,175 SF
Hotel Component	**101,230 SF**
TOTAL	**1,273,842 SF**

NOTES:
1. Square footages are approximate and conceptual.
2. Area SF = Total Gross Square Footage.

SOURCE: Overton Moore Properties 2017. Burbank Avion Master Site Plan.

Creative Office Component

The creative office component would consist of nine two-story buildings that total 142,500 sf. These buildings would range between 6,500-22,500 sf in size. With the exception of the smaller 6,500 square foot building, all of the office condominium buildings would be divisible into two units.

Retail Component

The retail center component of the project would provide a total of 15,475 sf between two retail buildings, totaling 6,300 sf and 9,175 sf each. The two retail buildings would be divisible down to 1,500 sf spaces, and would accommodate business service retail and food and beverage tenants and uses.

Hotel

The proposed project would also be entitled to accommodate a six-story, 166-room hotel, which would be a maximum of 69 feet tall and total 101,230 sf. The proposed hotel would also provide a restaurant, meeting facilities, swimming pool, fitness center, business center and lounge area.

Creative Industrial Buildings

The proposed project includes six creative industrial buildings totaling 1,014,887 sf. The building sizes range from 93,582 to 282,466 sf and would be divisible down to 27,220 sf. The proposed creative industrial buildings would provide large expansive spaces that could accommodate different types of businesses and operations, would be approximately 32 feet tall, and would also include large truck dock yards.

Parking

Parking for the proposed project would be provided in surface parking lots, located adjacent to the aforementioned creative office, retail, hotel, and industrial buildings. As mentioned prior, a total of 2,430 parking stalls would be provided on site. This total would contain 2,390 stalls associated with the proposed project and 40 parking stalls dedicated to the proposed Antelope Valley Metrolink Station.

SECTION 2.0
Regulatory Setting

Detailed below is a discussion of the relevant regulatory setting and regulations, plans, and policies that pertain to airport land use compatibility; specifically, noise, safety, airspace protection, and overflight are discussed in this section.

2.1 Federal Standards

Title 14 Code of Federal Regulations Part 150

Per federal regulations, airport compatibility planning is regulated by the Federal Aviation Administration (FAA) through a few major regulations. The Title 14 Code of Federal Regulations (14 CFR) Part 150 is central to airport noise compatibility planning. 14 CFR Part 150 allows airport operators to submit noise exposure maps and noise compatibility programs to the FAA voluntarily, but ultimately allows for airport operators to exercise discretion in the FAA also offers regulating decisions to jurisdictions in dealing with noise issues originating from airports. As such, airports in the State of California are subject to State airport noise standards and land use compatibility planning on the local level. This document reflects more broadly on State and local regulations in the respective sections below.

Title 14 Code of Federal Regulations Part 77

Concerning safety and airspace protection, 14 CFR Part 77 is the primary regulatory mechanism through which the FAA oversees safety standards, which in turn influences airport planning practices at the Airport. 14 CFR Part 77 is focused on objects that could affect navigable airspace within and surrounding an airport, and through an aeronautical study, the FAA can determine whether a proposed construction or alteration project could exceed established obstruction envelopes, which are based on the following slopes:

"i. 100 to 1 for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of each airport…with at least one runway more than 3,200 feet in actual length, excluding heliports.

ii. 50 to 1 for a horizontal distance of 10,000 feet from the nearest point of the nearest runway of each airport…with its longest runway no more than 3,200 feet in actual length, excluding heliports.

iii. 5 to 1 for a horizontal distance of 5,000 feet from the nearest point of the nearest landing and takeoff area of each heliport..." (FAR Section 77.13 (a)(2))

Safety standards on a federal level also factor in the potential for wildlife hazards and their associated impacts for flights and aircraft movement. FAA Advisory Circular 150/5200-33B, titled "Hazardous Wildlife Attractants On or Near Airports," provides guidance for airport and

airfield operators to minimize the risks that certain wildlife species pose to aircraft and primarily focuses on creating a pair of separation perimeters to prevent aircraft collisions with birds and other wildlife.[1]

There are no federal overflight standards.

2.2 State of California Standards

California Airport Land Use Planning Handbook

State of California standards are shaped by a number of regulations pertaining to noise, which are in turn presented in the 2011 *California Airport Land Use Planning Handbook* (Caltrans Handbook), which was prepared by the California Department of Transportation and provides guidance for meeting the baseline airport safety and land use compatibility requirements as a whole. This document spans a range of State regulations and guidance for establishing potential standards for an Airport Land Use Commission to adopt. However, as stated in the Caltrans Handbook, ALUCs are free to be more restrictive than the State's guidance when their local conditions warrant doing so.

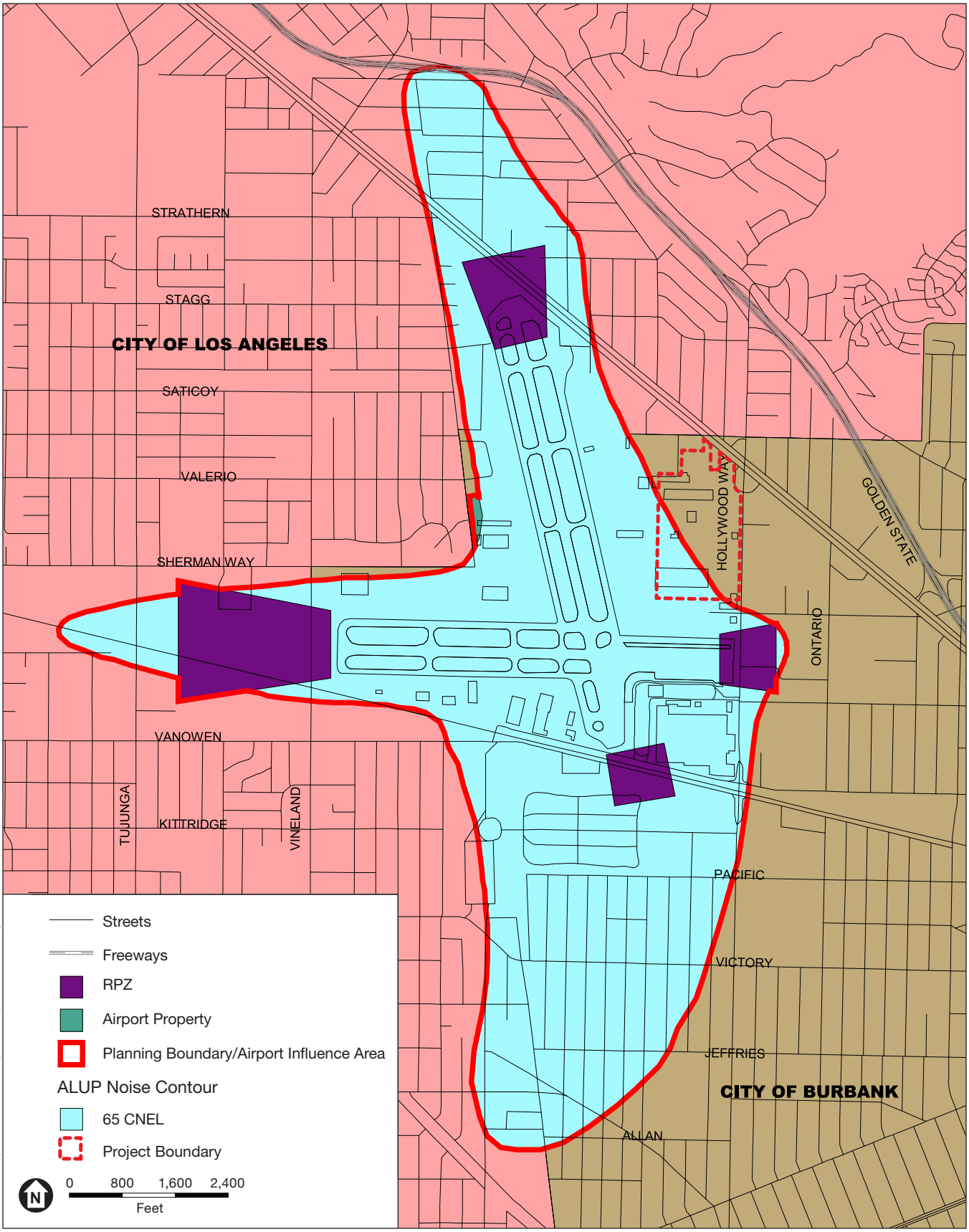
In particular, the Caltrans Handbook applies to all ALUCs that have been established in the California State Aeronautics Act (SSA) pursuant to Public Utilities Code (PUC), Section 21001 et seq., and it also sets forward the guidance that enables ALUCs to prepare, adopt, and amend an airport land use compatibility plan (ALUCP), which is generally the primary legal document for guiding airport land use compatibility planning in the vicinity of an airport. These plans are required by State law to provide noise, safety, airspace protection, and overflight requirements and analysis for each airport. Overflight requirements are largely focused on disclosure to future residential property owners of the effects of aircraft operations including, but not limited to, noise, fumes, and glare.

2.3 Local Standards

Los Angeles County Airport Comprehensive Land Use Plan

The 2004 Los Angeles County Airport Comprehensive Land Use Plan (CLUP) is the airport land use compatibility planning document that allows the acting ALUC, the Los Angeles County Department of Regional Planning (DRP), to review and make recommendations concerning certain projects within the ALUC planning boundaries. The DRP can make recommendations on projects, and can also determine consistency or inconsistency for the projects that are located within the airport influences areas (AIAs) for the various airports in Los Angeles County, including Hollywood Burbank Airport. **Figure 5** provides the AIA for the Airport, and it is bounded by the extent of the 65 Community Noise Equivalent Level (CNEL) contour as

[1] The FAA recommends separation distances based on the type of aircraft served at the airport. Based on the turbine-powered aircraft that the Airport serves, the FAA recommends a separation distance of 10,000 feet for any new or expanded land uses that have the potential to attract hazardous wildlife, along with a second separation distance of five miles for any new or expanded land uses that have the potential to attract the movement of hazardous wildlife.



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SOURCE: Los Angeles County, 2003

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Figure 5
Hollywood Burbank Airport Influence Area

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generated during the preparation of the 2004 CLUP. The southwest portion of the project site, approximately 17 acres in size, is located in the AIA.

In particular, the CLUP contains the following policies that pertain to the proposed project:

G-1 Require new uses to adhere to the Land Use Compatibility Chart [located on page 13 of the Los Angeles County CLUP].

G-4 Prohibit any uses which will negatively affect safe air navigation.

N-1 Use the Community Noise Equivalent Level (CNEL) method for measuring noise impacts near airports in determining suitability for various types of land uses.

N-2 Require sound insulation to insure a maximum interior 45dB CNEL in new residential, educational, and health-related uses in areas subject to exterior noise levels of 65 CNEL or greater.

S-5 Prohibit uses which attract large concentrations of birds, emit smoke, or which may otherwise affect safe air navigation.

S-6 Prohibit uses which would generate electrical interference that may be detrimental to the operation of aircraft and/or aircraft instrumentation.

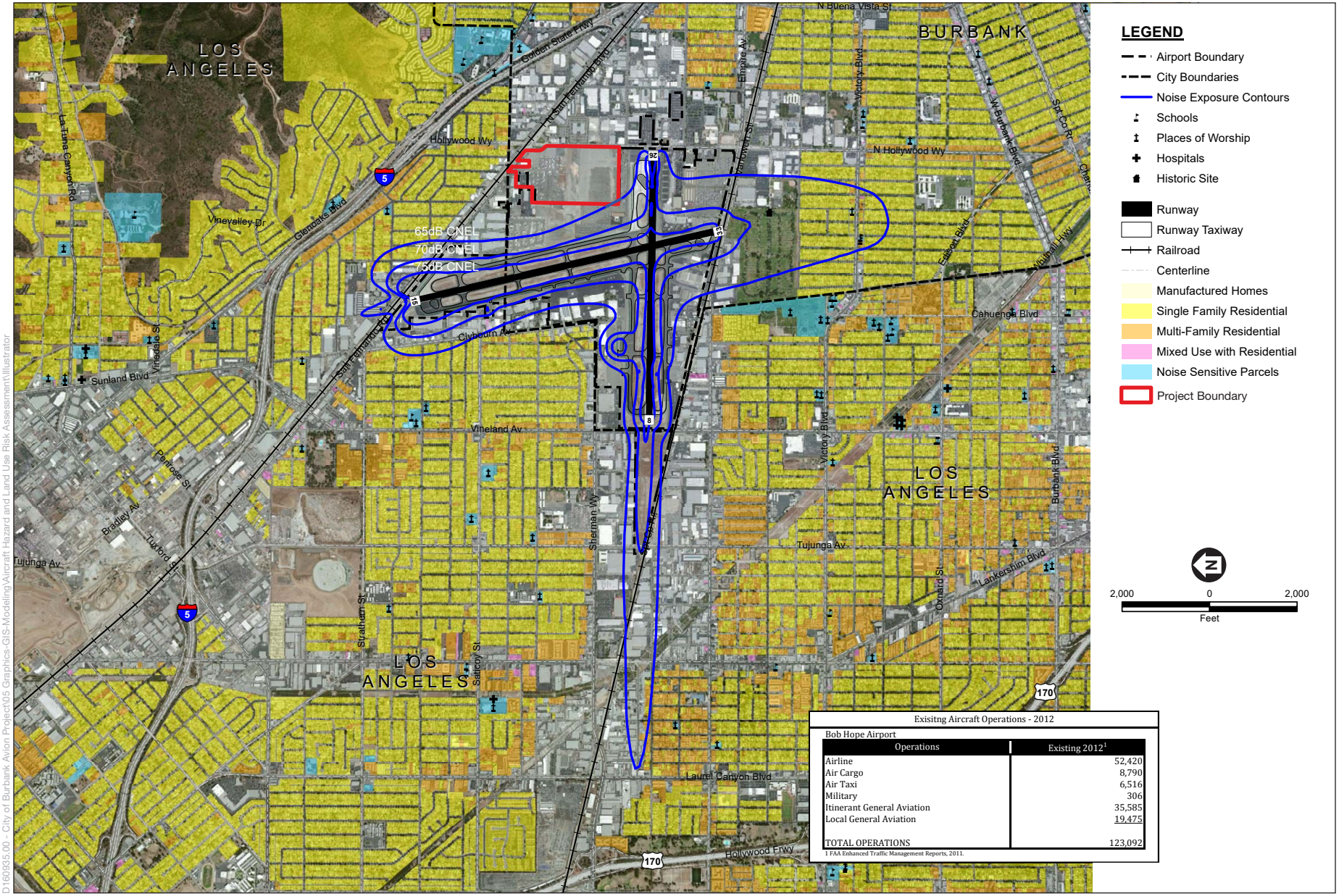
S-7 Comply with the height restriction standards and procedures set forth in FAR Part 77 [now 14 CFR Part 77].

Burbank-Glendale-Pasadena Airport Authority

The Burbank-Glendale-Pasadena Airport Authority (the Authority) prepared a recent 14 CFR Part 150 Noise Exposure Map (NEM) Update in April 2013 that depicts CNEL contours that are more reflective of the recent aircraft operations and fleet mix than the 2004 CLUP. The Existing Condition NEM, **Figure 6**, is based on data from 2012 and the Future Condition NEM, **Figure 7**, provides a five-year (2017) projection. As seen in these figures, even less of the project site, a small southwest corner (i.e., about blank acres), is located within the 2017 NEM 65 CNEL contour.

City of Burbank General Plan

The City of Burbank provides a number of noise, land use, and hazards policies that guide airport land use compatibility issues for future projects within the City limits. The City's noise standards are correlated with land use classifications in order to maintain identified ambient noise levels and to limit, mitigate, or eliminate intrusive noise that exceeds the ambient noise levels within a specified zone. The City has adopted local guidelines based, in part, on the community noise compatibility guidelines established by the California Department of Health Services (DHS) for use in assessing the compatibility of various land use types with a range of noise levels. The City's noise/land use compatibility guidelines for land uses are shown in **Table 2**. These criteria are the basis for the development of specific noise standards. In particular, this table indicates, as



SOURCE: Burbank-Glendale-Pasadena Airport Authority, 2012

Avion Burbank Project

Figure 6
2012 Noise Exposure Map

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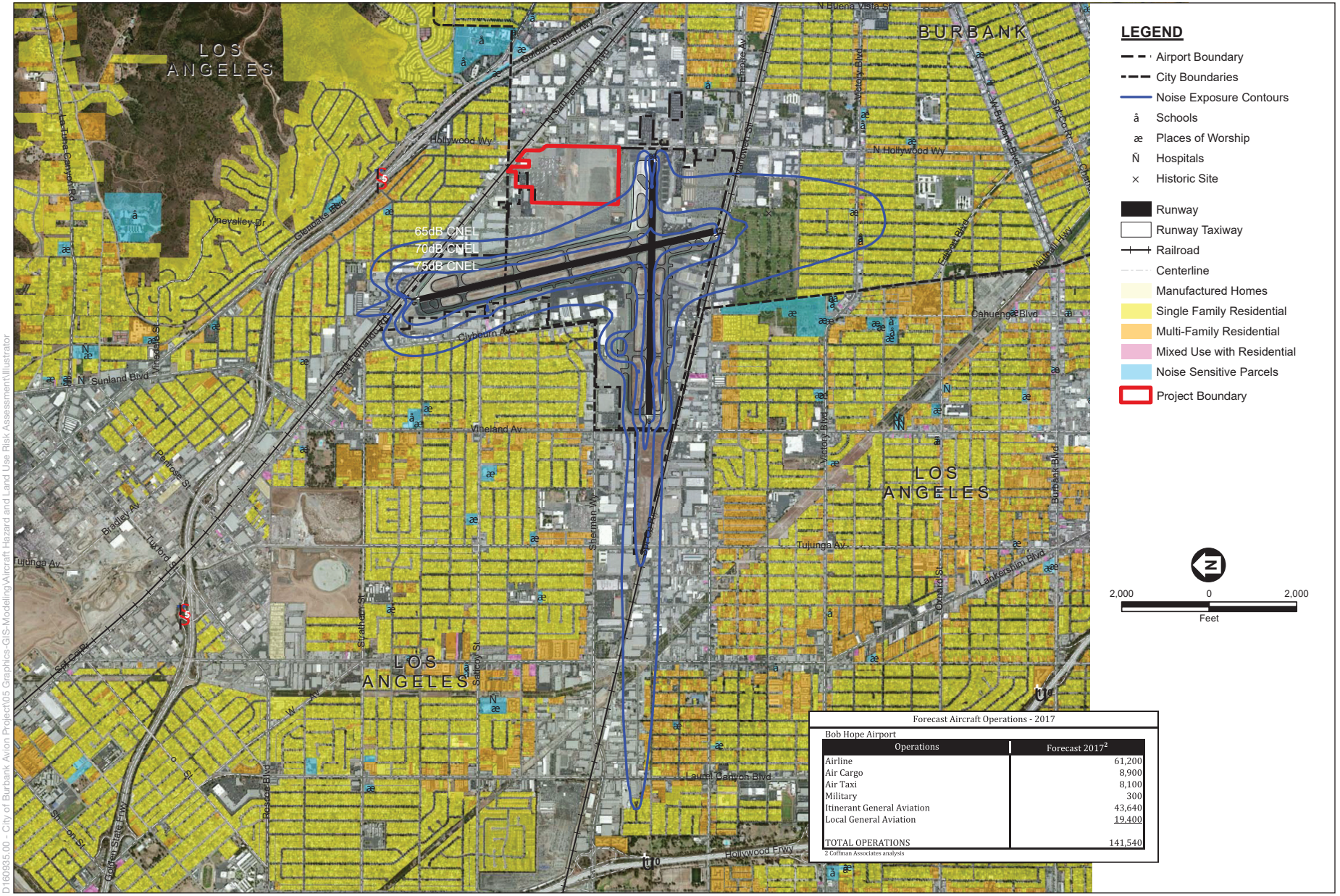
0 2000
Feet



SOURCE: Burbank-Glendale-Pasadena Airport Authority, 2012

Avion Burbank Project

Figure 7
2017 Noise Exposure Map

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highlighted by notes 6 and 7, the specific uses that the City has identified as not acceptable when located in the 65 decibel (dB) CNEL and 75 dB CNEL contours, respectively.

TABLE 2
CITY OF BURBANK GUIDELINES FOR NOISE COMPATIBLE LAND USE

Categories	Exterior Normally Acceptable[1] (dBA CNEL/L_{dn})	Exterior Possibly Acceptable[2] (dBA CNEL/L_{dn})	Exterior Normally Unacceptable[3] (dBA CNEL/L_{dn})	Interior Acceptable[4] (dBA CNEL/L_{dn} except where noted)
Residential, single family	Up to 60	61-70	71 and higher	45
Residential, multi-family	Up to 65	66-70	71 and higher	45
Residential, multi-family mixed-use	Up to 65	66-70	71 and higher	45
Transient lodging	Up to 65	66-70	71 and higher	45
Hospitals; nursing homes	Up to 60	61-70	71 and higher	45
Theaters; auditoriums; music halls	Up to 60	61-70	71 and higher	35 dBA L_{eq}[5]
Churches; meeting halls	Up to 60	61-70	71 and higher	40 dBA L_{eq}
Playgrounds; neighborhood parks	Up to 70	71-75	75 and higher	--
Schools; libraries; museums[6]	--	--	--	45 dBA L_{eq}
Offices[7]	--	--	--	45 dBA L_{eq}
Retail/Commercial[7]	--	--	--	--
Industrial	--	--	--	--

Notes:

1 Normally acceptable means that land uses may be established in areas with the stated ambient noise level, absent any unique noise circumstances.

2 Possibly acceptable means that land uses should be established in areas with the stated ambient noise level only when exterior areas are omitted from the project or noise levels in exterior areas can be mitigated to the normally acceptable level.

3 Normally unacceptable means that land uses should generally not be established in areas with the stated ambient noise level. If the benefits of the project in addressing other Burbank2035 goals and policies outweigh concerns about noise, the use should be established only where exterior areas are omitted from the project or where exterior areas are located and shielded from noise sources to mitigate noise to the maximum extent feasible.

4 Interior acceptable means that the building must be constructed so that interior noise levels do not exceed the stated maximum, regardless of the exterior noise level. Stated maximums are as determined for a typical worst-case hour during periods of use.

5 dBA L_{eq} has been determined for a typical worst-case hour during periods of use.

6 Within the Airport Influence Area, these uses are not acceptable above 65 dBA CNEL if subject to the City's discretionary review procedures.

7 Within the Airport Influence Area, these uses may be acceptable up to 75 dBA CNEL following review for additional noise attenuation; in excess of 75 dBA CNEL these uses are not acceptable

SOURCE: City of Burbank 2013.

The following objectives and policies from the City of Burbank's General Plan are applicable to the proposed project vis-à-vis airport land use compatibility:

Noise

Goal 5 – Aircraft Noise: Burbank achieves compatibility between airport-generated noise and adjacent land uses and reduces aircraft noise effects on residential areas and noise-sensitive land uses.

- **Policy 5.1:** Prohibit incompatible land uses within the airport noise impact area.
- **Policy 5.2:** Work with regional, state, and federal agencies, including officials at Bob Hope Airport, to implement noise reduction measures and to monitor and reduce noise associated with aircraft.
- **Policy 5.3:** Coordinate with the Federal Aviation Administration and Caltrans Division of Aeronautics regarding the siting and operation of heliports and helistops to minimize excessive helicopter noise.
- **Policy 5.4:** Within the Airport Influence Area, seek to inform residential property owners of airport generated noise and any land use restrictions associated with high noise exposure.

Land Use

Goal 12 – Golden State Commercial/Industrial Land Use: The Golden State Commercial/ Industrial corridor continues to support a diverse range of employment opportunities, playing a key role in the City's economy.

- **Policy 12.6:** Within the Airport Influence Area, encourage land uses that are compatible with the Bob Hope Airport. Projects occurring within the Airport Influence Area should be compatible with the adopted Los Angeles County Airport Land Use Plan.

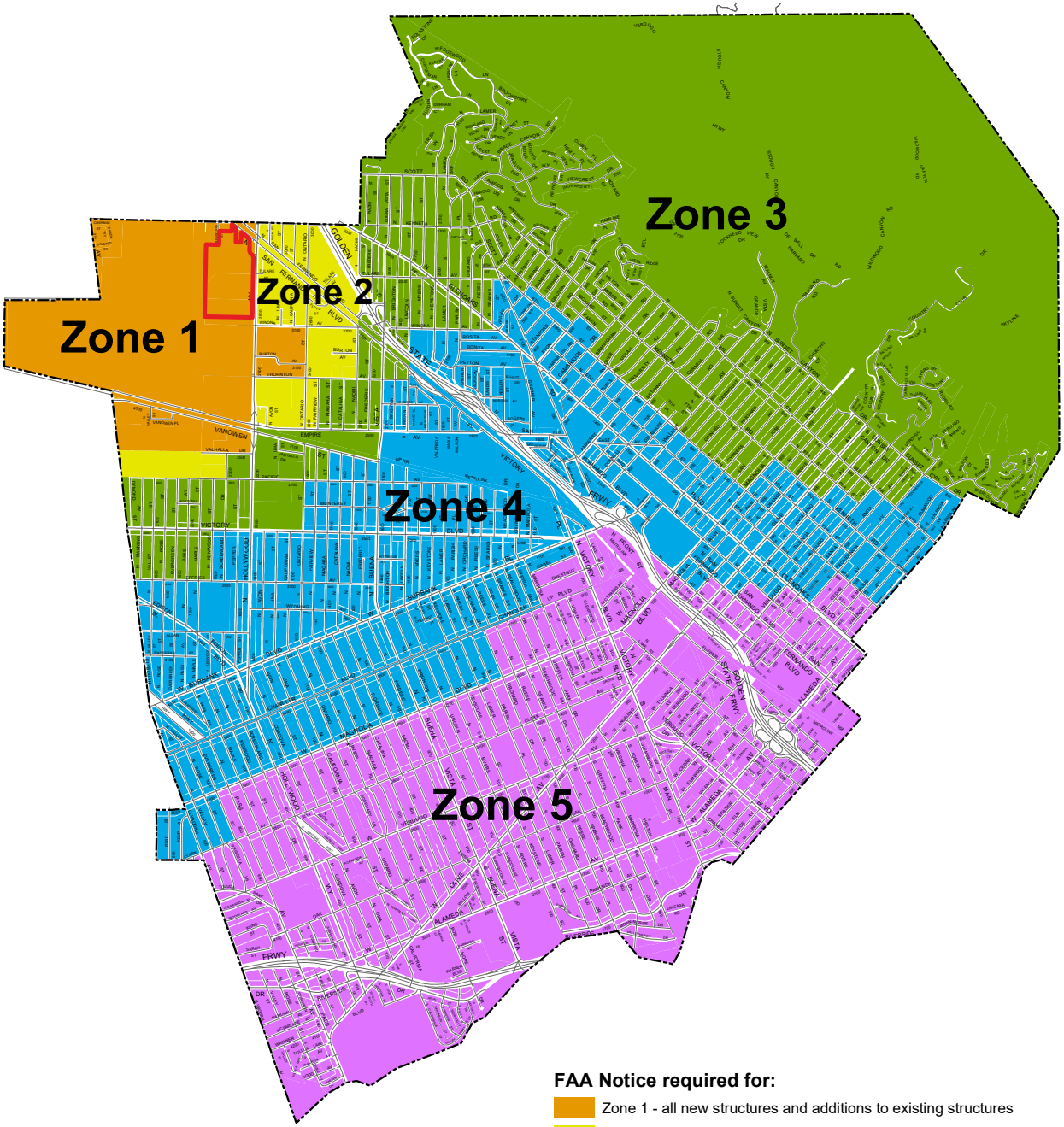
Hazards

Goal 7 – Airport Hazards: Threats to public safety, lives, and property resulting from an airport-related incident are reduced.

- **Policy 7.1:** Maintain consistency with the Los Angeles County Airport Land Use Plan as it pertains to Bob Hope Airport.
- **Policy 7.2:** Ensure that land uses, densities, and building heights within Airport Land Use Compatibility Zones are compatible with safe operation of Bob Hope Airport.

City of Burbank Municipal Code

Article 13, Division 2 of the Municipal Code for the City of Burbank presents a map for the FAA filing requirements for Form 7460-1, Notice of Proposed Construction or Alteration. All projects that are within the identified zones, as indicated in **Figure 8**, must file a Form 7460-1 to the FAA and present proof of permitting approval from the FAA to the City in order to receive City permitting and additional entitlements.



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SOURCE: City of Burbank, 2005

Avion Burbank Project

Figure 8
City of Burbank FAA Filing Requirement Map

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SECTION 3.0
Analysis

In reviewing the various standards at the federal, State, and local level, the proposed project would comply with all standards and requirements.

In terms of noise, a portion of the project site would be located and develop within the AIA for the Airport, and a very small portion of the site would be in the 2017 65 CNEL contour, which suggests avoiding educational facilities and exercising caution for residential and commercial uses. However, the proposed project would only contain industrial uses and parking spaces within the 2017 65 CNEL contour and the Hollywood Burbank Airport AIA, which is a compatible use within the 2017 65 CNEL contour and features no restrictions. Thus, the proposed project is compatible with existing noise policies.

Regarding safety, the Los Angeles County CLUP requires in policies that appropriate uses be used for areas located within any AIAs, including the AIA for the Airport. As indicated in the noise analysis, the proposed project would only provide compatible and satisfactory uses in the portions of the project located within the AIA. In addition, the project operations would not create any new wildlife attractants or generate smoke or electrical interference that may be detrimental to aircraft operations. Specific land uses that could cause wildlife attractants include waste disposal operations (which include municipal solid waste landfills); water management facilities (which include drinking water intake and treatment facilities, stormwater and wastewater treatment facilities, associated retention and settling ponds, ponds built for recreational use, and ponds that result from mining activities); wetlands (natural or artificial); dredge spoil containment areas (also known as confined disposal facilities); agricultural activities (such as irrigation and crop production); and golf courses. Most of these attractants largely concern creating bird strike hazards. In addition, power plants or facilities that could generate smoke or electrical interference are discouraged. The proposed project would not include water features, open waste areas, or any of these other uses, during construction or operation, and thus would not create any birdstrike or wildlife hazards, or sources of smoke or electrical interference, which could also negatively impact aircraft operations and movement.

Therefore, the proposed project is compatible with existing safety policies Policies S-5 and S-6 of the Los Angeles County CLUP. While the Airport does not provide any specific delineated safety zones, the areas of the project site located within the AIA for Hollywood Burbank Airport contain industrial uses and parking spaces of a lower intensity, and it is anticipated that these uses would not generate large concentrations of people.

Regarding airspace protection, the proposed project met its Burbank Municipal Code requirements of submitting a Form 7460-1 to the FAA. The FAA Southwest Regional Office,

Obstruction Evaluation Group, issued a determination of no hard to air navigation letter on July, 21 2016, which contained an approved aeronautical study of the project site. The FAA determined that the project would provide no hazard to air navigation. The proposed buildings within the project site do not exceed obstruction standards per the FAA. Additionally, the FAA found that special marking and lighting are not required for any buildings within the project site. Thus, the proposed project is compatible with existing airspace protection policies.

Regarding overflight, which is largely based on noise and flight tracks at the airport, the project site is an area immediately adjacent to one of the Airport runways and would generally not be subject to direct overflights. Thus, any overflight impacts would be minimal and the proposed project is compatible with existing overflight policies.

REFERENCES

Burbank-Glendale-Pasadena Airport Authority. 2013. Bob Hope Airport – 14 CFR Part 150 Study Noise Exposure Map Update. April 2013.

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